

Paint-Riter™ Valve Action Paint Marker White, Yellow, Red, Blue, Green, Orange, Aluminum, Pink, Light Blue, Light Green, Brown, Gold

Safety Data Sheet

according to Regulation (EU) 2015/830
Issue date: 9/22/2020 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Product name : Paint-Riter™ Valve Action Paint Marker White, Yellow, Red, Blue, Green, Orange, Aluminum, Pink, Light Blue, Light Green, Brown, Gold
Other means of identification : UFI
White: 6TN6-45T8-5SKG-XH1T
Yellow: Y0P6-5561-SSKG-866X
Red: X5P6-55JU-DSKF-KVD2
Blue: SAP6-55XN-0SKF-WJJ6
Green: NHP6-65AE-MSKF-77QA
Orange: VPP6-65Q7-7SKE-JWVF
Aluminum: CUP6-7530-USKE-VM1K
Pink: 81Q6-75FT-FSKE-696Q
Light Blue: G6Q6-75UM-2SKD-HYCU
Light Green: ECQ6-857D-PSKD-UNHY
Brown: QJQ6-85M6-9SKD-5AQ3
Gold: 1QQ6-85YY-WSKD-G0V7

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category : Professional use
Use of the substance/mixture : Marking.

1.2.2. Uses advised against

Restrictions on use : No additional information available

1.3. Details of the supplier of the safety data sheet

LA-CO Industries Europe S.A.S.

Parc Industriel de la Plaine de

l'Ain - Allée des Combes.

01150.BLYES.France.

Phone: +33 (0)4 74 46 23 23

Fax: +33 (0)4 74 46 23 29

E-mail: info@eu.laco.com

Web: http://www.markal.com

1.4. Emergency telephone number

Emergency number : 24-hour emergency: CHEMTREC- U.S. : 1-800-424-9300 International: +1-703-527-3887;
全国应急中心 0532 8388 9090



EU Member State	Officieel adviesorgaan	Adres	Noodnummer
AUSTRIA	Vergiftungsinformationszentrale (Poisons Information Centre)	Allgemeines Krankenhaus Waehringer Geurtel 18-20 1090 Wien	+43 1 406 43 43
BELARUS	The Belarus Republican Poisons Centre	Kizhevatova str. 58 Minsk 220115	+375 (0)17 201 9158
BELGIUM	Centre Anti-Poisons/Antigifocentrum c/o Hôpital Central de la Base - Reine Astrid	Rue Bruyn 1 B -1120 Bruxelles/Brussel	+32 70 245 245
BULGARIA	Национален токсикологичен информационен център National Clinical Toxicology Centre, Emergency Medical Institute "Pirogov"	21 Toleben Boulevard 1606 SOFIA	+359 2 9154 409
CROATIA	Poisons Control Centre Institute of Medical Research & Occupational Health	Ksaverska Cesta 2 P.O. Box 291 HR-10000 Zagreb	+385 1 234 8342
CZECH REPUBLIC	Toxikologické informační středisko Clinic For Occupational Medicine, 1st Medical Faculty, Charles University	Na Bojišti 1 120 00 Praha 2	+42 2 2491 9293 +42 2 2491 5402
DENMARK	Giftlinjen Bispebjerg Hospital	Bispebjerg Bakke 23, 60, 1 DK-2400 København NV	+45 82 12 12 12 +45 35 31 55 55
ESTONIA	Mürgistusteabekeskus	Gonsiori 29 15027 Tallinn	+372 626 93 90
FINLAND	Myrkytystietokeskus	P.O.B 340 (Haartmaninkatu 4) HUS SF - 00029 Helsinki	+358 9 471 977
FRANCE	ORFILA		+33 1 45 42 59 59

Paint-Riter™ Valve Action Paint Marker White, Yellow, Red, Blue, Green, Orange, Aluminum, Pink, Light Blue, Light Green, Brown, Gold

Safety Data Sheet

according to Regulation (EU) 2015/830

EU Member State	Officieel adviesorgaan	Adres	Noodnummer
GERMANY	Berliner Betrieb für Zentrale Gesundheitliche Aufgaben	Oranienburger Strasse 285 13437 Berlin	+49 30 19240
GERMANY	Informations und Beratungszentrum für Vergiftungsfälle	Kirrberger Straße, Gebäude 9 D-66421 Homburg/Saar	+49 6841 19240
GERMANY	Beratungstelle bei Vergiftungen, Klinische Toxikologie und Beratungsstelle bei Vergiftungen	Langenbeckstrasse 1 55131 Mainz	+49 6131 19240
GREECE	Poisons Information Centre	11527 Athens	+30 10 779 3777
HUNGARY	Országos Kémiai Biztonsági Intézet (National Institute of Chemical Safety) Egészségügyi Toxikológiai Tájékoztató Szolgálat (Health Toxicological Information Service)	1437 Budapest PO Box 839 1097 Budapest, Nagyvárad tér 2	+36 80 20 11 99
ICELAND	Eitrunarmiðstöðin	Eitrunarmiðstöðin 108 Reykjavik	+354 543 22 22
IRELAND	National Poisons Information Centre	Beaumont Hospital PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2166
LATVIA	Valsts Toksikoloģijas centra Saindēšanās un zāļu informācijas centrs	2 Hipocrate Street LV 1038 Riga	+371 67 04 24 73
LITHUANIA	Apsinuodijimų kontrolės ir informacijos biuras	Siltnamiu 29 2043 Vilnius	+370 5 236 20 52/+370 687 53 378
MALTA	Medicines & Poisons Info Office	Mater Dei Hospital, Msida MSD 2090 Malta	25450000
NETHERLANDS	Nationaal Vergiftigingen Informatie Centrum National Institute for Public Health and the Environment, NB this service is only available to health professionals	Huispostnummer B.00.118, PO Box 85500 3508 GA Utrecht	+31 30 274 88 88
PORTUGAL	Centro de Informação Antivenenos Instituto Nacional de Emergência Médica (INEM)	Rua Almirante Barroso, 36 1000-013 Lisboa	808 250 143 (for use only in Portugal), +351 21 330 3284
ROMANIA	Biroul pentru Regulamentul Sanitar International si Informare Toxicologica	Str. Dr. Leonte Anastasievici Nr.1-3, Sector 5 50463 Bucuresti	+40 21 318 36 06
SLOVAKIA	Národné toxikologické informačné centrum University Hospital Bratislava	Limbová 5 833 05 Bratislava	+421 2 54 77 4 166
SPAIN	Servicio de Información Toxicológica Instituto Nacional de Toxicología, Departamento de Madrid	Calle Luis Cabrera 9 E-28002 Madrid	+34 91 562 04 20
SWEDEN	Giftinformationscentralen Swedish Poisons Information Centre, Karolinska Hospital	Box 60 500 SE-171 76 Stockholm	+46 8 33 12 31 (International) 112 (National)
SWITZERLAND	Centre Suisse d'Information Toxicologique	Freiestrasse 16 Postfach CH-8028 Zurich	+41 44 251 51 51 (International) 145 (National)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, Category 2 H225
Skin sensitisation, category 1B H317
Specific target organ toxicity — Single exposure, Category 3, Narcosis H336
Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS02

GHS07

Signal word (CLP)

: Danger

Hazardous ingredients

: White: 1-Methoxy-2-propanol; Rosin, fumarated, polymer with ethylene glycol and

Paint-Riter™ Valve Action Paint Marker White, Yellow, Red, Blue, Green, Orange, Aluminum, Pink, Light Blue, Light Green, Brown, Gold

Safety Data Sheet

according to Regulation (EU) 2015/830

pentaerythritol

Yellow: 1-Methoxy-2-propanol; Rosin, fumarated, polymer with ethylene glycol and pentaerythritol

Red: 1-Methoxy-2-propanol; Rosin, fumarated, polymer with ethylene glycol and pentaerythritol

Blue: 1-Methoxy-2-propanol; [N,N,N',N',N'',N''-hexaethyl-29H,31H-phthalocyaninetrimethylaminato(2-)-N29,N30,N31,N32]copper; Rosin, fumarated, polymer with ethylene glycol and pentaerythritol

Green: 1-Methoxy-2-propanol; Rosin, fumarated, polymer with ethylene glycol and pentaerythritol

Orange: 1-Methoxy-2-propanol; Rosin, fumarated, polymer with ethylene glycol and pentaerythritol

Aluminum: 1-Methoxy-2-propanol; Rosin, fumarated, polymer with ethylene glycol and pentaerythritol

Pink: 1-Methoxy-2-propanol; Rosin, fumarated, polymer with ethylene glycol and pentaerythritol

Light Blue: 1-Methoxy-2-propanol; Rosin, fumarated, polymer with ethylene glycol and pentaerythritol

Light Green: 1-Methoxy-2-propanol; Rosin, fumarated, polymer with ethylene glycol and pentaerythritol

Brown: 1-Methoxy-2-propanol; Rosin, fumarated, polymer with ethylene glycol and pentaerythritol

Gold: 1-Methoxy-2-propanol; Rosin, fumarated, polymer with ethylene glycol and pentaerythritol

Hazard statements (CLP)

: H225 - Highly flammable liquid and vapour.
H317 - May cause an allergic skin reaction.
H336 - May cause drowsiness or dizziness.

Precautionary statements (CLP)

: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 - Keep container tightly closed.
P240 - Ground and bond container and receiving equipment.
P241 - Use explosion-proof electrical/ventilating/lighting equipment.
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P271 - Use only outdoors or in a well-ventilated area.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P302+P352 - IF ON SKIN: Wash with plenty of water.
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water .
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 - Call a POISON CENTRE or doctor if you feel unwell.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P370+P378 - In case of fire: Use media other than water to extinguish.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P403+P235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

EUH-statements

: EUH211: Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

2.3. Other hazards

PBT: not yet assessed

vPvB: not yet assessed

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
1-Methoxy-2-propanol	(CAS-No.) 107-98-2	20 - 80	Flam. Liq. 3, H226

Paint-Riter™ Valve Action Paint Marker White, Yellow, Red, Blue, Green, Orange, Aluminum, Pink, Light Blue, Light Green, Brown, Gold

Safety Data Sheet

according to Regulation (EU) 2015/830

	(EC-No.) 203-539-1 (EC Index-No.) 603-064-00-3		STOT SE 3, H336
ethanol	(CAS-No.) 64-17-5 (EC-No.) 200-578-6 (EC Index-No.) 603-002-00-5	10 - 20	Flam. Liq. 2, H225
Aluminium (Note T)	(CAS-No.) 7429-90-5 (EC-No.) 231-072-3;231-072-3b (EC Index-No.) 013-001-00-1	0 - 10	Flam. Sol. 1, H228 Water-react. 2, H261
Isopropanol	(CAS-No.) 67-63-0 (EC-No.) 200-661-7 (EC Index-No.) 603-117-00-0	1 - 5	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Rosin, fumarated, polymer with ethylene glycol and pentaerythritol	(CAS-No.) 68152-57-8 (EC-No.) *614-317-2	1 - <5	Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 4, H413
2-methoxy-1-methylethyl acetate	(CAS-No.) 108-65-6 (EC-No.) 203-603-9 (EC Index-No.) 607-195-00-7	0 - 5	Flam. Liq. 3, H226
4-[[4-(aminocarbonyl)phenyl]azo]-N-(2-ethoxyphenyl)-3-hydroxynaphthalene-2-carboxamide, C.I. Pigment Red 170 (naphthol <1%)	(CAS-No.) 2786-76-7 (EC-No.) 220-509-3	0 - 5	Skin Sens. 1, H317
Titanium dioxide	(CAS-No.) 13463-67-7 (EC-No.) 236-675-5	0 - 5	Not classified
propyl acetate (Note C)	(CAS-No.) 109-60-4 (EC-No.) 203-686-1 (EC Index-No.) 607-024-00-6	0.1 - <1	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Ethyl acetate	(CAS-No.) 141-78-6 (EC-No.) 205-500-4 (EC Index-No.) 607-022-00-5	0.1 - <1	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Butyl acetate	(CAS-No.) 123-86-4 (EC-No.) 204-658-1 (EC Index-No.) 607-025-00-1	0 - 1	Flam. Liq. 3, H226 STOT SE 3, H336
(2-Methoxymethylethoxy)-propanol	(CAS-No.) 34590-94-8 (EC-No.) 252-104-2	0.1 - <1	Not classified
Silicon dioxide (amorphous)	(CAS-No.) 7631-86-9 (EC-No.) 231-545-4	<1	Not classified
Aluminum hydroxide	(CAS-No.) 21645-51-2 (EC-No.) 244-492-7	<1	Not classified
[N,N,N',N'',N''',N''''-hexaethyl-29H,31H-phthalocyaninetrimethylamino(2-)-N29,N30,N31,N32]copper	(CAS-No.) 28654-73-1 (EC-No.) 249-125-4	0 - 1	Skin Sens. 1B, H317
barium sulfate	(CAS-No.) 7727-43-7 (EC-No.) 231-784-4	0 - 1	Not classified
2-methoxypropyl acetate	(CAS-No.) 70657-70-4 (EC-No.) 274-724-2 (EC Index-No.) 607-251-00-0	<0.1	Flam. Liq. 3, H226 Repr. 1B, H360D STOT SE 3, H335
Aluminum oxide	(CAS-No.) 1344-28-1 (EC-No.) 215-691-6	<0.1	Not classified
2-methylpropan-1-ol	(CAS-No.) 78-83-1 (EC-No.) 201-148-0 (EC Index-No.) 603-108-00-1	<0.1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336

Note C : Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

Note T : This substance may be marketed in a form which does not have the physical hazards as indicated by the classification in the entry in Part 3. If the results of the relevant method or methods in accordance with Part 2 of Annex I of this Regulation show that the specific form of substance marketed does not exhibit this physical property or these physical hazards, the substance shall be classified in accordance with the result or results of this test or these tests. Relevant information, including reference to the relevant test method(s) shall be included in the safety data sheet.

Paint-Riter™ Valve Action Paint Marker White, Yellow, Red, Blue, Green, Orange, Aluminum, Pink, Light Blue, Light Green, Brown, Gold

Safety Data Sheet

according to Regulation (EU) 2015/830

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
First-aid measures after skin contact	: Wash skin thoroughly with mild soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: In case of contact, immediately flush eyes with plenty of water.
First-aid measures after ingestion	: Do NOT induce vomiting. Get medical advice/attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation	: May cause drowsiness or dizziness.
Symptoms/effects after skin contact	: May cause an allergic skin reaction.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Carbon dioxide. Dry chemical. Inert gas. Foam. Water spray. Water fog.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Highly flammable liquid and vapour. Burning produces irritating, toxic and noxious fumes. Flammable vapours may accumulate in the container. Heavier than air, vapours may travel long distances along ground, ignite and flash back to source.
Explosion hazard	: Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.
Hazardous decomposition products in case of fire	: Carbon oxides (CO, CO ₂). Hydrocarbon.

5.3. Advice for firefighters

Firefighting instructions	: Exercise caution when fighting any chemical fire. Do not allow run-off from fire fighting to enter drains or water courses. Eliminate all ignition sources if safe to do so.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Use self-contained breathing apparatus. EN469.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking. Avoid all eye and skin contact and do not breathe vapour and mist.
------------------	--

6.1.1. For non-emergency personnel

Protective equipment	: Refer to section 8.2.
Emergency procedures	: Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment	: Refer to section 8.2.
Emergency procedures	: Stop leak if safe to do so. Ventilate area.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment	: Eliminate all ignition sources. Stop the flow of material, if this is without risk.
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Take up in non-combustible absorbent material and shove into container for disposal.

6.4. Reference to other sections

Section 13: disposal information. Section 7: safe handling. Section 8: personal protective equipment.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed	: Handle empty containers with care because residual vapours are flammable.
Precautions for safe handling	: No open flames. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Avoid all eye and skin contact and do not breathe vapour and mist. Use only outdoors or in a well-ventilated area.
Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Paint-Riter™ Valve Action Paint Marker White, Yellow, Red, Blue, Green, Orange, Aluminum, Pink, Light Blue, Light Green, Brown, Gold

Safety Data Sheet

according to Regulation (EU) 2015/830

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Keep container tightly closed. Keep away from open flames, hot surfaces and sources of ignition.
Incompatible products	: Strong oxidizers.
Incompatible materials	: Heat sources.
Heat and ignition sources	: Keep away from heat, sparks and flame.
Prohibitions on mixed storage	: Keep away from incompatible materials.
Storage area	: Store in dry, cool, well-ventilated area.

7.3. Specific end use(s)

Marking.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

1-Methoxy-2-propanol (107-98-2)

EU - Occupational Exposure Limits

Local name	1-Methoxypropanol-2
IOELV TWA (mg/m ³)	375 mg/m ³
IOELV TWA (ppm)	100 ppm
IOELV STEL (mg/m ³)	568 mg/m ³
IOELV STEL (ppm)	150 ppm
Notes	Skin

Austria - Occupational Exposure Limits

MAK [mg/m ³]	187 mg/m ³
MAK Daily average value (ppm)	50 ppm
MAK Short time value [mg/m ³]	187 mg/m ³
MAK Short time value [ppm]	50 ppm
Remark (AT)	(gemessen als Momentanwert), (H)

Belgium - Occupational Exposure Limits

Limit value [mg/m ³]	375 mg/m ³
Limit value [ppm]	100 ppm
Short time value [mg/m ³]	568 mg/m ³
Short time value [ppm]	150 ppm
Remark (BE)	D

Czech Republic - Occupational Exposure Limits

Local name	1-Methoxy-2-propanol
Expoziční limity (PEL) (mg/m ³)	270 mg/m ³
Expoziční limity (PEL) (ppm)	73.17 ppm
Expoziční limity (NPK-P) (mg/m ³)	550 mg/m ³
Expoziční limity (NPK-P) (ppm)	149.05 ppm
Remark (CZ)	D

Denmark - Occupational Exposure Limits

Local name	1-Methoxy-2-propanol (Propylenglycolmonomethylether)
Grænsevædi (8 timer) (mg/m ³)	185 mg/m ³
Grænsevædi (8 timer) (ppm)	50 ppm
Grænsevædi (STEL) (mg/m ³)	370 mg/m ³
Grænsevædi (STEL) (ppm)	100 ppm
Anmærkninger (DK)	E (betyder, at stoffet har en EF-grænseværdi)

Paint-Riter™ Valve Action Paint Marker White, Yellow, Red, Blue, Green, Orange, Aluminum, Pink, Light Blue, Light Green, Brown, Gold

Safety Data Sheet

according to Regulation (EU) 2015/830

1-Methoxy-2-propanol (107-98-2)	
Finland - Occupational Exposure Limits	
Local name	1-Metoksi-2-propanoli
HTP-arvo (8h) (mg/m ³)	370 mg/m ³
HTP-arvo (8h) (ppm)	100 ppm
HTP-arvo (15 min)	560 mg/m ³
HTP-arvo (15 min) (ppm)	150 ppm
Huomautus (FI)	iho
France - Occupational Exposure Limits	
Local name	Ether méthylique du propylène-glycol (1-Méthoxy-2-propanol)
VME [mg/m ³]	188 mg/m ³
VME [ppm]	50 ppm
VLE [mg/m ³]	375 mg/m ³
VLE [ppm]	100 ppm
Note (FR)	Peau
Germany - Occupational Exposure Limits (TRGS 900)	
TRGS 900 Local name	1-Methoxy-2-propanol
Occupational exposure limit value (mg/m ³)	370 mg/m ³
Occupational exposure limit value (ppm)	100 ppm
Limitation of exposure peaks (mg/m ³)	740 mg/m ³
Limitation of exposure peaks (ppm)	200 ppm
TRGS 900 Remark	DFG,EU,Y
Hungary - Occupational Exposure Limits	
Local name	1-METOXIPROPÁN-2-OL
AK-érték	375 mg/m ³
CK-érték	568 mg/m ³
Megjegyzések (HU)	b; EU1
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m ³)	375 mg/m ³
OEL (8 hours ref) (ppm)	100 ppm
OEL (15 min ref) (mg/m ³)	568 mg/m ³
OEL (15 min ref) (ppm)	150 ppm
Italy - Occupational Exposure Limits	
Local name	Metossipropanolo-2,1-
OEL TWA (mg/m ³)	375 mg/m ³
OEL TWA (ppm)	100 ppm
OEL STEL (mg/m ³)	568 mg/m ³
OEL STEL (ppm)	150 ppm
Latvia - Occupational Exposure Limits	
Local name	1-Metoksi-2-propanols (propilēnglikola monometilēteris, monopropilēnglikolmetilēteris)
OEL TWA (mg/m ³)	375 mg/m ³
OEL TWA (ppm)	100 ppm
OEL STEL (mg/m ³)	568 mg/m ³

Paint-Riter™ Valve Action Paint Marker White, Yellow, Red, Blue, Green, Orange, Aluminum, Pink, Light Blue, Light Green, Brown, Gold

Safety Data Sheet

according to Regulation (EU) 2015/830

1-Methoxy-2-propanol (107-98-2)	
OEL STEL (ppm)	150 ppm
Lithuania - Occupational Exposure Limits	
IPRV (mg/m ³)	190 mg/m ³
IPRV (ppm)	50 ppm
TPRV (mg/m ³)	300 mg/m ³
TPRV (ppm)	75 ppm
Netherlands - Occupational Exposure Limits	
Local name	1-Methoxy-2-propanol
Grenswaarde TGG 8H (mg/m ³)	375 mg/m ³
Grenswaarde TGG 15MIN (mg/m ³)	563 mg/m ³
Remark (MAC)	(H)
Poland - Occupational Exposure Limits	
Local name	1-Metoksypropan-2-ol
NDS (mg/m ³)	180 mg/m ³
NDSch (mg/m ³)	360 mg/m ³
Portugal - Occupational Exposure Limits	
Local name	1-Metoxi-2-propanol (PGME)
OEL TWA (ppm)	50 ppm
OEL STEL (ppm)	100 ppm
Slovakia - Occupational Exposure Limits	
Local name	1-Metoxipropan-2-ol (propylénglykolmonometyléter)
NPHV (priemerná) (mg/m ³)	375 mg/m ³
NPHV (priemerná) (ppm)	100 ppm
OEL STEL (mg/m ³)	568 mg/m ³
OEL STEL (ppm)	150 ppm
Upozornenie (SK)	(K)
Slovenia - Occupational Exposure Limits	
Local name	1-metoksi-2-propanol (propilenglikolmonometil eter)
OEL TWA (mg/m ³)	375 mg/m ³
OEL TWA (ppm)	100 ppm
OEL STEL (mg/m ³)	562.5 mg/m ³
OEL STEL (ppm)	150 ppm
Spain - Occupational Exposure Limits	
Local name	1-Metoxipropan-2-ol (Éter 1-metilico de propilenglicol)
VLA-ED (mg/m ³)	375 mg/m ³
VLA-ED (ppm)	100 ppm
VLA-EC (mg/m ³)	568 mg/m ³
VLA-EC (ppm)	150 ppm
Notes	vía dérmica,VLI
Sweden - Occupational Exposure Limits	
Local name	1-Metoxi-2-propanol
nivågränsvärde (NVG) (mg/m ³)	190 mg/m ³

Paint-Riter™ Valve Action Paint Marker White, Yellow, Red, Blue, Green, Orange, Aluminum, Pink, Light Blue, Light Green, Brown, Gold

Safety Data Sheet

according to Regulation (EU) 2015/830

1-Methoxy-2-propanol (107-98-2)	
nivågränsvärde (NVG) (ppm)	50 ppm
kortidsvärde (KTV) (mg/m ³)	300 mg/m ³
kortidsvärde (KTV) (ppm)	75 ppm
Anmärkning (SE)	H
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m ³)	375 mg/m ³
WEL TWA (ppm)	100 ppm
WEL STEL (mg/m ³)	560 mg/m ³
WEL STEL [ppm]	150 ppm
Norway - Occupational Exposure Limits	
Local name	1-metoksy-2-propanol (Propylenglykolmonometyleter)
Grenseverdier (AN) (mg/m ³)	180 mg/m ³
Grenseverdier (AN) (ppm)	50 ppm
Merknader (NO)	H
Switzerland - Occupational Exposure Limits	
VME [mg/m ³]	360 mg/m ³
MAK (ppm)	100 ppm 20 ppm (urina; fine dell'esposizione / del turno)
KZGW (mg/m ³)	720 mg/m ³
KZGW (ppm)	200 ppm

Ethyl acetate (141-78-6)	
EU - Occupational Exposure Limits	
Local name	Ethyl acetate
IOELV TWA (mg/m ³)	734 mg/m ³
IOELV TWA (ppm)	200 ppm
IOELV STEL (mg/m ³)	1468 mg/m ³
IOELV STEL (ppm)	400 ppm
Regulatory reference	COMMISSION DIRECTIVE (EU) 2017/164
Austria - Occupational Exposure Limits	
MAK [mg/m ³]	1050 mg/m ³
MAK Daily average value (ppm)	300 ppm
MAK Short time value [mg/m ³]	2100 mg/m ³ max. 8x5 min./Schicht (gemessen als Momentanwert)
MAK Short time value [ppm]	600 ppm max. 8x5 min./Schicht (gemessen als Momentanwert)
Belgium - Occupational Exposure Limits	
Limit value [mg/m ³]	1461 mg/m ³
Limit value [ppm]	400 ppm
Czech Republic - Occupational Exposure Limits	
Local name	Ethylacetát
Expoziční limity (PEL) (mg/m ³)	700 mg/m ³
Expoziční limity (PEL) (ppm)	191 ppm
Expoziční limity (NPK-P) (mg/m ³)	900 mg/m ³
Expoziční limity (NPK-P) (ppm)	246 ppm

Paint-Riter™ Valve Action Paint Marker White, Yellow, Red, Blue, Green, Orange, Aluminum, Pink, Light Blue, Light Green, Brown, Gold

Safety Data Sheet

according to Regulation (EU) 2015/830

Ethyl acetate (141-78-6)	
Remark (CZ)	I - dráždí sliznice (oči, dýchací cesty), respektive kůži.
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 41/2020 Sb.)
Denmark - Occupational Exposure Limits	
Local name	Ethylacetat (Eddikesyreethylester)
Grænsevædi (8 timer) (mg/m ³)	540 mg/m ³
Grænsevædi (8 timer) (ppm)	150 ppm
Grænsevædi (STEL) (mg/m ³)	1080 mg/m ³
Grænsevædi (STEL) (ppm)	300 ppm
Anmærkninger (DK)	E (betyder, at stoffet har en EF-grænseværdi)
Regulatory reference	BEK nr 1458 af 13/12/2019
Finland - Occupational Exposure Limits	
Local name	Etyyliasettaati
HTP-arvo (8h) (mg/m ³)	730 mg/m ³
HTP-arvo (8h) (ppm)	200 ppm
HTP-arvo (15 min)	1470 mg/m ³
HTP-arvo (15 min) (ppm)	400 ppm
Regulatory reference	HTP-ARVOT 2018 (Sosiaali- ja terveystieteiden ministeriö)
France - Occupational Exposure Limits	
Local name	Acétate d'éthyle
VME [mg/m ³]	734 mg/m ³
VME [ppm]	200 ppm
VLE [mg/m ³]	1468 mg/m ³
VLE [ppm]	400 ppm
Note (FR)	Valeurs réglementaires contraignantes
Regulatory reference	Article R4412-149 du Code du travail (réf.: INRS ED 984, 2016; Décret n° 2019-1487)
Germany - Occupational Exposure Limits (TRGS 900)	
TRGS 900 Local name	Ethylacetat
Occupational exposure limit value (mg/m ³)	730 mg/m ³
Occupational exposure limit value (ppm)	200 ppm
Peak exposure limitation factor	2(I)
TRGS 900 Remark	DFG;EU;Y
TRGS 900 Regulatory reference	TRGS900
Hungary - Occupational Exposure Limits	
Local name	ETIL-ACETÁT
AK-érték	734 mg/m ³
CK-érték	1468 mg/m ³
Megjegyzések (HU)	i (ingerlő anyag, amely izgatja a bőrt, nyálkahártyát, szemet vagy mindhámat), sz (Túlérzékenységet okozó (szenzibilizáló) tulajdonságú anyag. Az anyagra érzékeny egyéneken „túlérzékenységen” alapuló bőr-, légzőrendszeri, esetleg más szervet/szervrendszert károsító megbetegedést okozhat); EU4 (2017/164 EU irányelvben közölt érték); N (Irritáló anyagok, egyszerű fojtógázok, csekély egészségkárosító hatással bíró anyagok)
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről

Paint-Riter™ Valve Action Paint Marker White, Yellow, Red, Blue, Green, Orange, Aluminum, Pink, Light Blue, Light Green, Brown, Gold

Safety Data Sheet

according to Regulation (EU) 2015/830

Ethyl acetate (141-78-6)	
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (ppm)	200 ppm
OEL (15 min ref) (ppm)	400 ppm
Latvia - Occupational Exposure Limits	
Local name	Etiķskābes etilesteris (etilacetāts)
OEL TWA (mg/m ³)	200 mg/m ³ 54 mg/m ³ 1468 mg/m ³ 400 mg/m ³
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2018. gada 10. jūlijā noteikumiem Nr. 407)
Lithuania - Occupational Exposure Limits	
IPRV (mg/m ³)	500 mg/m ³
IPRV (ppm)	150 ppm
NRV (mg/m ³)	1100 mg/m ³
NRV (ppm)	300 ppm
Netherlands - Occupational Exposure Limits	
Local name	Ethylacetaat
Grenswaarde TGG 8H (mg/m ³)	734 mg/m ³
Grenswaarde TGG 15MIN (mg/m ³)	1468 mg/m ³
Regulatory reference	Arbeidsomstandighedenregeling 2020
Poland - Occupational Exposure Limits	
Local name	Octan etylu
NDS (mg/m ³)	734 mg/m ³
NDSch (mg/m ³)	1468 mg/m ³
Regulatory reference	Dz. U. 2018 poz. 1286
Portugal - Occupational Exposure Limits	
Local name	Acetato de etilo
OEL TWA (ppm)	400 ppm
Regulatory reference	Norma Portuguesa NP 1796:2014
Slovakia - Occupational Exposure Limits	
Local name	Etylacetát (octan etylový)
NPHV (priemerná) (mg/m ³)	734 mg/m ³
NPHV (priemerná) (ppm)	200 ppm
OEL STEL (mg/m ³)	1468 mg/m ³
OEL STEL (ppm)	400 ppm
Regulatory reference	Nariadenie vlády č. 33/2018 Z. z.
Slovenia - Occupational Exposure Limits	
Local name	etilacetat
OEL TWA (mg/m ³)	734 mg/m ³
OEL TWA (ppm)	200 ppm
OEL STEL (mg/m ³)	1468 mg/m ³
OEL STEL (ppm)	400 ppm

Paint-Riter™ Valve Action Paint Marker White, Yellow, Red, Blue, Green, Orange, Aluminum, Pink, Light Blue, Light Green, Brown, Gold

Safety Data Sheet

according to Regulation (EU) 2015/830

Ethyl acetate (141-78-6)	
Remark (SI)	Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti), EU
Regulatory reference	Uradni list RS, št. 78/2019 z dne 20.12.2019
Spain - Occupational Exposure Limits	
Local name	Acetato de etilo
VLA-ED (mg/m ³)	734 mg/m ³
VLA-ED (ppm)	200 ppm
VLA-EC (mg/m ³)	1468 mg/m ³
VLA-EC (ppm)	400 ppm
Notes	VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo).
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
Sweden - Occupational Exposure Limits	
Local name	Etylacetat
nivågränsvärde (NVG) (mg/m ³)	550 mg/m ³
nivågränsvärde (NVG) (ppm)	150 ppm
kortidsvärde (KTV) (mg/m ³)	1100 mg/m ³
kortidsvärde (KTV) (ppm)	300 ppm
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m ³)	730 mg/m ³
WEL TWA (ppm)	200 ppm
WEL STEL (mg/m ³)	1460 mg/m ³
WEL STEL [ppm]	400 ppm
Norway - Occupational Exposure Limits	
Local name	Etylacetat
Grenseverdier (AN) (mg/m ³)	734 mg/m ³
Grenseverdier (AN) (ppm)	200 ppm
Grenseverdier (Korttidsverdi) (mg/m ³)	1468 mg/m ³
Grenseverdier (Korttidsverdi) (ppm)	400 ppm
Merknader (NO)	E: EU har en veiledende grenseverdi for stoffet.
Regulatory reference	FOR-2020-04-06-695
Switzerland - Occupational Exposure Limits	
VME [mg/m ³]	1400 mg/m ³
MAK (ppm)	400 ppm
KZGW (mg/m ³)	2800 mg/m ³ max. 4x15 min./turno
KZGW (ppm)	800 ppm max. 4x15 min./turno

Butyl acetate (123-86-4)	
EU - Occupational Exposure Limits	
Local name	n-Butyl acetate
IOELV TWA (mg/m ³)	241 mg/m ³
IOELV TWA (ppm)	50 ppm
IOELV STEL (mg/m ³)	723 mg/m ³

Paint-Riter™ Valve Action Paint Marker White, Yellow, Red, Blue, Green, Orange, Aluminum, Pink, Light Blue, Light Green, Brown, Gold

Safety Data Sheet

according to Regulation (EU) 2015/830

Butyl acetate (123-86-4)	
IOELV STEL (ppm)	150 ppm
Regulatory reference	COMMISSION DIRECTIVE (EU) 2019/1831
Austria - Occupational Exposure Limits	
MAK [mg/m ³]	480 mg/m ³
MAK Daily average value (ppm)	100 ppm
MAK Short time value [mg/m ³]	480 mg/m ³
MAK Short time value [ppm]	100 ppm
Remark (AT)	(gemessen als Momentanwert)
Belgium - Occupational Exposure Limits	
Limit value [mg/m ³]	723 mg/m ³
Limit value [ppm]	150 ppm
Short time value [mg/m ³]	964 mg/m ³
Short time value [ppm]	200 ppm
Denmark - Occupational Exposure Limits	
Local name	n-Butylacetat
Grænsevædi (8 timer) (mg/m ³)	710 mg/m ³
Grænsevædi (8 timer) (ppm)	150 ppm
Grænsevædi (STEL) (mg/m ³)	1420 mg/m ³
Grænsevædi (STEL) (ppm)	300 ppm
Regulatory reference	BEK nr 1458 af 13/12/2019
Finland - Occupational Exposure Limits	
Local name	n-Butyyliasetaatti
HTP-arvo (8h) (mg/m ³)	720 mg/m ³
HTP-arvo (8h) (ppm)	150 ppm
HTP-arvo (15 min)	960 mg/m ³
HTP-arvo (15 min) (ppm)	200 ppm
Regulatory reference	HTP-ARVOT 2018 (Sosiaali- ja terveystieteiden ministeriö)
France - Occupational Exposure Limits	
Local name	Acétate de n-butyle
VME [mg/m ³]	710 mg/m ³
VME [ppm]	150 ppm
VLE [mg/m ³]	940 mg/m ³
VLE [ppm]	200 ppm
Note (FR)	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Germany - Occupational Exposure Limits (TRGS 900)	
TRGS 900 Local name	n-Butylacetat
Occupational exposure limit value (mg/m ³)	300 mg/m ³
Occupational exposure limit value (ppm)	62 ppm
Peak exposure limitation factor	2(I)
TRGS 900 Remark	AGS;Y
TRGS 900 Regulatory reference	TRGS900

Paint-Riter™ Valve Action Paint Marker White, Yellow, Red, Blue, Green, Orange, Aluminum, Pink, Light Blue, Light Green, Brown, Gold

Safety Data Sheet

according to Regulation (EU) 2015/830

Butyl acetate (123-86-4)	
Hungary - Occupational Exposure Limits	
Local name	n-BUTIL-ACETÁT
AK-érték	241 mg/m ³
CK-érték	723 mg/m ³
Megjegyzések (HU)	i (ingerlő anyag, amely izgatja a bőrt, nyálkahártyát, szemet vagy mindhármát), sz (Túlérzékenységet okozó (szenzibilizáló) tulajdonságú anyag. Az anyagra érzékeny egyéneken „túlérzékenységen” alapuló bőr-, légzőrendszeri, esetleg más szervet/szervrendszert károsító megbetegedést okozhat); N (Irritáló anyagok, egyszerű fojtógázok, csekély egészségkárosító hatással bíró anyagok)
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m ³)	710 mg/m ³
OEL (8 hours ref) (ppm)	150 ppm
OEL (15 min ref) (mg/m ³)	950 mg/m ³
OEL (15 min ref) (ppm)	200 ppm
Latvia - Occupational Exposure Limits	
Local name	Etiķskābes butilesteris (n-butilacetāts)
OEL TWA (mg/m ³)	200 mg/m ³
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2011. gada 1. februārī noteikumiem Nr. 92)
Lithuania - Occupational Exposure Limits	
IPRV (mg/m ³)	500 mg/m ³
IPRV (ppm)	100 ppm
TPRV (mg/m ³)	700 mg/m ³
TPRV (ppm)	150 ppm
Poland - Occupational Exposure Limits	
Local name	Octan n-butylu (n-butylu octan)
NDS (mg/m ³)	240 mg/m ³
NDSCh (mg/m ³)	720 mg/m ³
Regulatory reference	Dz. U. 2018 poz. 1286
Portugal - Occupational Exposure Limits	
Local name	Acetato de n-butilo
OEL TWA (ppm)	150 ppm
OEL STEL (ppm)	200 ppm
Regulatory reference	Norma Portuguesa NP 1796:2014
Slovakia - Occupational Exposure Limits	
Local name	Butylacetáty: n-Butylacetát
NPHV (priemerná) (mg/m ³)	500 mg/m ³
NPHV (priemerná) (ppm)	100 ppm
OEL STEL (mg/m ³)	700 mg/m ³
OEL STEL (ppm)	150 ppm
Regulatory reference	Nariadenie vlády č. 33/2018 Z. z.

Paint-Riter™ Valve Action Paint Marker White, Yellow, Red, Blue, Green, Orange, Aluminum, Pink, Light Blue, Light Green, Brown, Gold

Safety Data Sheet

according to Regulation (EU) 2015/830

Butyl acetate (123-86-4)	
Slovenia - Occupational Exposure Limits	
Local name	n-butylacetat
OEL TWA (mg/m ³)	300 mg/m ³
OEL TWA (ppm)	62 ppm
OEL STEL (mg/m ³)	600 mg/m ³
OEL STEL (ppm)	124 ppm
Remark (SI)	Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti)
Regulatory reference	Uradni list RS, št. 78/2019 z dne 20.12.2019
Spain - Occupational Exposure Limits	
Local name	Acetato de n-butilo
VLA-ED (mg/m ³)	724 mg/m ³
VLA-ED (ppm)	150 ppm
VLA-EC (mg/m ³)	965 mg/m ³
VLA-EC (ppm)	200 ppm
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
Sweden - Occupational Exposure Limits	
Local name	n-Butylacetat
nivågränsvärde (NVG) (mg/m ³)	500 mg/m ³
nivågränsvärde (NVG) (ppm)	100 ppm
kortidsvärde (KTV) (mg/m ³)	700 mg/m ³
kortidsvärde (KTV) (ppm)	150 ppm
Anmärkning (SE)	V (Vägledande kortidsgränsvärde ska användas som ett rekommenderat högsta värde som inte bör överskridas)
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m ³)	724 mg/m ³
WEL TWA (ppm)	150 ppm
WEL STEL (mg/m ³)	966 mg/m ³
WEL STEL [ppm]	200 ppm
Norway - Occupational Exposure Limits	
Grenseverdier (AN) (mg/m ³)	355 mg/m ³
Grenseverdier (AN) (ppm)	75 ppm
Switzerland - Occupational Exposure Limits	
VME [mg/m ³]	480 mg/m ³
MAK (ppm)	100 ppm
KZGW (mg/m ³)	960 mg/m ³ max. 8x5 min./turno
KZGW (ppm)	200 ppm max. 8x5 min./turno

2-methoxy-1-methylethyl acetate (108-65-6)

Denmark - Occupational Exposure Limits

Grænsevædi (STEL) (mg/m ³)	550 mg/m ³
Grænsevædi (STEL) (ppm)	100 ppm

Paint-Riter™ Valve Action Paint Marker White, Yellow, Red, Blue, Green, Orange, Aluminum, Pink, Light Blue, Light Green, Brown, Gold

Safety Data Sheet

according to Regulation (EU) 2015/830

2-methoxy-1-methylethyl acetate (108-65-6)	
Finland - Occupational Exposure Limits	
Huomautus (FI)	iho
France - Occupational Exposure Limits	
Note (FR)	Peau
Germany - Occupational Exposure Limits (TRGS 900)	
Limitation of exposure peaks (mg/m ³)	270 mg/m ³
Limitation of exposure peaks (ppm)	50 ppm
Slovakia - Occupational Exposure Limits	
NPHV (priemerná) (mg/m ³)	275 mg/m ³
NPHV (priemerná) (ppm)	50 ppm
Upozornenie (SK)	(K)
Spain - Occupational Exposure Limits	
VLA-ED (mg/m ³)	275 mg/m ³
VLA-ED (ppm)	50 ppm
VLA-EC (mg/m ³)	550 mg/m ³
VLA-EC (ppm)	100 ppm
Notes	VLI
Sweden - Occupational Exposure Limits	
Anmärkning (SE)	H

2-methoxypropyl acetate (70657-70-4)	
Czech Republic - Occupational Exposure Limits	
Remark (CZ)	D
Denmark - Occupational Exposure Limits	
Grænsevædi (STEL) (mg/m ³)	220 mg/m ³
Grænsevædi (STEL) (ppm)	40 ppm
Germany - Occupational Exposure Limits (TRGS 900)	
Limitation of exposure peaks (mg/m ³)	224 mg/m ³
Limitation of exposure peaks (ppm)	40 ppm
Slovakia - Occupational Exposure Limits	
NPHV (priemerná) (mg/m ³)	110 mg/m ³
NPHV (priemerná) (ppm)	20 ppm
Upozornenie (SK)	(K)
Spain - Occupational Exposure Limits	
VLA-ED (mg/m ³)	28 mg/m ³
VLA-ED (ppm)	5 ppm
VLA-EC (mg/m ³)	220 mg/m ³
VLA-EC (ppm)	40 ppm
Notes	TR1B,r

Paint-Riter™ Valve Action Paint Marker White, Yellow, Red, Blue, Green, Orange, Aluminum, Pink, Light Blue, Light Green, Brown, Gold

Safety Data Sheet

according to Regulation (EU) 2015/830

2-methylpropan-1-ol (78-83-1)	
Czech Republic - Occupational Exposure Limits	
Local name	Butanol (všechny isomery)
Expoziční limity (PEL) (mg/m ³)	300 mg/m ³
Expoziční limity (PEL) (ppm)	100 ppm
Expoziční limity (NPK-P) (mg/m ³)	600 mg/m ³
Expoziční limity (NPK-P) (ppm)	200 ppm
Remark (CZ)	D
Denmark - Occupational Exposure Limits	
Local name	Isobutylalkohol
Grænsevædi (8 timer) (mg/m ³)	150 mg/m ³
Grænsevædi (8 timer) (ppm)	50 ppm
Anmærkninger (DK)	L (markerer, at grænseværdien er en loftværdi, som ikke på noget tidspunkt må overskrides); H (betyder, at stoffet kan optages gennem huden)
Finland - Occupational Exposure Limits	
Huomautus (FI)	iho
France - Occupational Exposure Limits	
Local name	Alcool isobutylique
VME [mg/m ³]	150 mg/m ³
VME [ppm]	50 ppm
Note (FR)	Valeurs recommandées/admises
Germany - Occupational Exposure Limits (TRGS 900)	
TRGS 900 Local name	2-Methylpropan-1-ol
Occupational exposure limit value (mg/m ³)	310 mg/m ³
Occupational exposure limit value (ppm)	100 ppm
Limitation of exposure peaks (mg/m ³)	310 mg/m ³
Limitation of exposure peaks (ppm)	100 ppm
TRGS 900 Remark	DFG, Y
Poland - Occupational Exposure Limits	
Local name	2-Metylopropan-1-ol (izobutylowy alkohol)
NDS (mg/m ³)	100 mg/m ³
NDSch (mg/m ³)	200 mg/m ³
Portugal - Occupational Exposure Limits	
Local name	Isobutanol (Álcool isobutílico)
OEL TWA (ppm)	50 ppm
Slovakia - Occupational Exposure Limits	
Local name	izo-Butanol
NPHV (priemerná) (mg/m ³)	310 mg/m ³
NPHV (priemerná) (ppm)	100 ppm
Slovenia - Occupational Exposure Limits	
Local name	2-metilpropan-1-ol (izobutanol)
OEL TWA (mg/m ³)	310 mg/m ³
OEL TWA (ppm)	100 ppm

Paint-Riter™ Valve Action Paint Marker White, Yellow, Red, Blue, Green, Orange, Aluminum, Pink, Light Blue, Light Green, Brown, Gold

Safety Data Sheet

according to Regulation (EU) 2015/830

2-methylpropan-1-ol (78-83-1)	
OEL STEL (mg/m ³)	310 mg/m ³
OEL STEL (ppm)	100 ppm
Spain - Occupational Exposure Limits	
Local name	Isobutanol (Alcohol isobutílico)
VLA-ED (mg/m ³)	154 mg/m ³
VLA-ED (ppm)	50 ppm
Sweden - Occupational Exposure Limits	
Local name	iso-Butanol
nivågränsvärde (NVG) (mg/m ³)	150 mg/m ³
nivågränsvärde (NVG) (ppm)	50 ppm
kortidsvärde (KTV) (mg/m ³)	250 mg/m ³
kortidsvärde (KTV) (ppm)	75 ppm
Anmärkning (SE)	H
Norway - Occupational Exposure Limits	
Local name	2-metylpropan-1-ol
Grenseverdier (AN) (mg/m ³)	75 mg/m ³
Grenseverdier (AN) (ppm)	25 ppm
Grenseverdier (Takverdi) (mg/m ³)	75 mg/m ³
Grenseverdier (Takverdi) (ppm)	25 ppm
Merknader (NO)	H (Kjemikalier som kan tas opp gjennom huden); T (Takverdi er en øyeblikksverdi som angir maksimalkonsentrasjon av et kjemikalie i pustesonen som ikke skal overskrides)

Aluminum oxide (1344-28-1)	
Austria - Occupational Exposure Limits	
MAK [mg/m ³]	10 mg/m ³ (gemessen als einatembarer Aerosolanteil) 5 mg/m ³ (alveolengängiger Anteil)
MAK Short time value [mg/m ³]	20 mg/m ³ (gemessen als einatembarer Aerosolanteil) max. 2x60 min./Schicht 10 mg/m ³ (alveolengängiger Anteil) max. 2x60 min./Schicht
Belgium - Occupational Exposure Limits	
Limit value [mg/m ³]	10 mg/m ³
Remark (BE)	(oxyde d') (en Al)
Denmark - Occupational Exposure Limits	
Local name	Aluminiumoxid
Grænsevædi (8 timer) (mg/m ³)	5 mg/m ³ beregnet som Al, total 2 mg/m ³ beregnet som Al, respirabel
Grænsevædi (STEL) (mg/m ³)	10 mg/m ³ (total) 4 mg/m ³ (respirabel)
Regulatory reference	BEK nr 1458 af 13/12/2019
France - Occupational Exposure Limits	
Local name	Aluminium (Trioxyde de di-)
VME [mg/m ³]	10 mg/m ³
Note (FR)	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)

Paint-Riter™ Valve Action Paint Marker White, Yellow, Red, Blue, Green, Orange, Aluminum, Pink, Light Blue, Light Green, Brown, Gold

Safety Data Sheet

according to Regulation (EU) 2015/830

Aluminum oxide (1344-28-1)	
Germany - Occupational Exposure Limits (TRGS 900)	
Occupational exposure limit value (mg/m ³)	3 mg/m ³
TRGS 900 Remark	(gemessen als alveolengängiger Staubanteil)
Hungary - Occupational Exposure Limits	
Megjegyzések (HU)	(respirable aerosol)
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m ³)	10 mg/m ³ (total inhalable dust) 4 mg/m ³ (respirable dust)
Latvia - Occupational Exposure Limits	
Local name	Alumīnija oksīds
OEL TWA (mg/m ³)	6 mg/m ³ dezintegrācijas aerosola veidā 4 mg/m ³ maisījumā ar niķeli (līdz 15%), (elektrokorunds)
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2011. gada 1. februārī noteikumiem Nr. 92)
Lithuania - Occupational Exposure Limits	
IPRV (mg/m ³)	2 mg/m ³
Remark (LT)	(alveolinė frakcija. Biūrėk IX skyriaus 3 pastabà.)
Poland - Occupational Exposure Limits	
Local name	Tritlenek glinu
NDS (mg/m ³)	2.5 mg/m ³ w przeliczeniu na Al: frakcja wdychalna 1.2 mg/m ³ w przeliczeniu na Al: frakcja respirabilna
Remark (PL)	Frakcja wdychalna – frakcja aerozolu wnikaćca przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia. Frakcja respirabilna – frakcja aerozolu wnikaćca do dróg oddechowych, która stwarza zagrożenie dla zdrowia po zdeponowaniu w obszarze wymiany gazowej.
Regulatory reference	Dz. U. 2018 poz. 1286
Slovakia - Occupational Exposure Limits	
Local name	Oxid hlinitý
NPHV (priemerná) (mg/m ³)	4 mg/m ³ inhalovateľná frakcia – prach 1.5 mg/m ³ respirabilná frakcia – prach
Regulatory reference	Nariadenie vlády č. 33/2018 Z. z.
Spain - Occupational Exposure Limits	
Local name	Óxido de aluminio (Corindón)
VLA-ED (mg/m ³)	10 mg/m ³
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
Sweden - Occupational Exposure Limits	
nivågränsvärde (NVG) (mg/m ³)	5 mg/m ³ (inhalable aerosol) 2 mg/m ³ (respirable aerosol)
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m ³)	10 mg/m ³ (inhalable aerosol) 4 mg/m ³ (respirable aerosol)
Norway - Occupational Exposure Limits	
Local name	Aluminiumoksid
Grenseverdier (AN) (mg/m ³)	10 mg/m ³
Merknader (NO)	1) Grenseverdien er fastsatt lik verdien for sjenerende støv.
Regulatory reference	FOR-2020-04-06-695

Paint-Riter™ Valve Action Paint Marker White, Yellow, Red, Blue, Green, Orange, Aluminum, Pink, Light Blue, Light Green, Brown, Gold

Safety Data Sheet

according to Regulation (EU) 2015/830

Aluminum oxide (1344-28-1)	
Switzerland - Occupational Exposure Limits	
VME [mg/m ³]	3 mg/m ³
Remark	(respirable aerosol)
Aluminum hydroxide (21645-51-2)	
Austria - Occupational Exposure Limits	
MAK Daily average value (ppm)	10 ppm (gemessen als einatembarer Aerosolanteil) 5 ppm (alveolengängiger Anteil)
MAK Short time value [ppm]	20 ppm (gemessen als einatembarer Aerosolanteil) max. 2x60 min./Schicht 10 ppm (alveolengängiger Anteil) max. 2x60 min./Schicht
Latvia - Occupational Exposure Limits	
Local name	Alumīnija hidroksīds
OEL TWA (mg/m ³)	6 mg/m ³
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2011. gada 1. februārī noteikumiem Nr. 92)
Lithuania - Occupational Exposure Limits	
IPRV (mg/m ³)	6 mg/m ³
Remark (LT)	F
Poland - Occupational Exposure Limits	
Local name	Wodorotlenek glinu
NDS (mg/m ³)	2.5 mg/m ³ w przeliczeniu na Al: frakcja wdychalna 1.2 mg/m ³ w przeliczeniu na Al: frakcja respirabilna
Remark (PL)	Frakcja wdychalna – frakcja aerozolu wnikaćca przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia. Frakcja respirabilna – frakcja aerozolu wnikaćca do dróg oddechowych, która stwarza zagrożenie dla zdrowia po zdeponowaniu w obszarze wymiany gazowej.
Regulatory reference	Dz. U. 2018 poz. 1286
Slovakia - Occupational Exposure Limits	
Local name	Hydroxid hlinitý
NPHV (priemerná) (mg/m ³)	4 mg/m ³ inhalovateľná frakcia – prach 1.5 mg/m ³ respirabilná frakcia – prach
Regulatory reference	Nariadenie vlády č. 33/2018 Z. z.
Switzerland - Occupational Exposure Limits	
VME [mg/m ³]	3 mg/m ³
Remark	(alveolengängige Fraktion)
Silicon dioxide (amorphous) (7631-86-9)	
Austria - Occupational Exposure Limits	
MAK [mg/m ³]	4 mg/m ³
Remark (AT)	(einatembare Fraktion)
Finland - Occupational Exposure Limits	
HTP-arvo (8h) (mg/m ³)	5 mg/m ³
Germany - Occupational Exposure Limits (TRGS 900)	
TRGS 900 Local name	Kieselsäuren, amorphe
Occupational exposure limit value (mg/m ³)	4 mg/m ³ (E)
TRGS 900 Remark	DFG;2;Y

Paint-Riter™ Valve Action Paint Marker White, Yellow, Red, Blue, Green, Orange, Aluminum, Pink, Light Blue, Light Green, Brown, Gold

Safety Data Sheet

according to Regulation (EU) 2015/830

Silicon dioxide (amorphous) (7631-86-9)	
TRGS 900 Regulatory reference	TRGS900
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m ³)	2.4 mg/m ³ 6 mg/m ³ (total inhalable dust)
Latvia - Occupational Exposure Limits	
Local name	Silīcija dioksīds
OEL TWA (mg/m ³)	1 mg/m ³
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2020. gada 7. janvārī noteikumiem Nr. 11)
Slovenia - Occupational Exposure Limits	
Local name	silikagel
OEL TWA (mg/m ³)	4 mg/m ³
Remark (SI)	Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti)
Regulatory reference	Uradni list RS, št. 78/2019 z dne 20.12.2019
Spain - Occupational Exposure Limits	
VLA-ED (mg/m ³)	10 mg/m ³
Notes	(respirable aerosol)
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m ³)	6 mg/m ³ (inhalable aerosol) 2.4 mg/m ³ (respirable aerosol)
Switzerland - Occupational Exposure Limits	
VME [mg/m ³]	4 mg/m ³
Remark	(einatembarer Staub)
Titanium dioxide (13463-67-7)	
Austria - Occupational Exposure Limits	
MAK [mg/m ³]	5 mg/m ³ (alveolengängiger Anteil)
MAK Short time value [mg/m ³]	10 mg/m ³ max. 2x60 min./Schicht (alveolengängiger Anteil)
Belgium - Occupational Exposure Limits	
Limit value [mg/m ³]	10 mg/m ³
Remark (BE)	(dioxyde de)
Denmark - Occupational Exposure Limits	
Local name	Titandioxid
Grænsevædi (8 timer) (mg/m ³)	6 mg/m ³ beregnet som Ti
Grænsevædi (STEL) (mg/m ³)	12 mg/m ³
Regulatory reference	BEK nr 1458 af 13/12/2019
France - Occupational Exposure Limits	
Local name	Titane (dioxyde de), en Ti
VME [mg/m ³]	10 mg/m ³
Note (FR)	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)

Paint-Riter™ Valve Action Paint Marker White, Yellow, Red, Blue, Green, Orange, Aluminum, Pink, Light Blue, Light Green, Brown, Gold

Safety Data Sheet

according to Regulation (EU) 2015/830

Titanium dioxide (13463-67-7)	
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m ³)	10 mg/m ³ total inhalable dust 4 mg/m ³ respirable dust
Latvia - Occupational Exposure Limits	
Local name	Titāna dioksīds
OEL TWA (mg/m ³)	10 mg/m ³
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2011. gada 1. februārī noteikumiem Nr. 92)
Lithuania - Occupational Exposure Limits	
IPRV (mg/m ³)	5 mg/m ³
Poland - Occupational Exposure Limits	
Local name	Ditlenek tytanu
NDS (mg/m ³)	10 mg/m ³ frakcja wdychalna
Remark (PL)	Frakcja wdychalna – frakcja aerozolu wnikaćca przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia. Obowiązuje jednocześnie oznaczenie stężeń frakcji respirabilnej krzemionki krystalicznej.
Regulatory reference	Dz. U. 2018 poz. 1286
Portugal - Occupational Exposure Limits	
Local name	Dióxido de titânio
OEL TWA (mg/m ³)	10 mg/m ³
Regulatory reference	Norma Portuguesa NP 1796:2014
Slovakia - Occupational Exposure Limits	
Local name	Oxid titaničitý
NPHV (priemerná) (mg/m ³)	5 mg/m ³
Regulatory reference	Nariadenie vlády č. 33/2018 Z. z.
Spain - Occupational Exposure Limits	
Local name	Dióxido de titanio
VLA-ED (mg/m ³)	10 mg/m ³
Notes	inhalable aerosol
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
Sweden - Occupational Exposure Limits	
Local name	Titandioxid
nivågränsvärde (NVG) (mg/m ³)	5 mg/m ³ totaldamm
Anmärkning (SE)	3 (Med totaldamm menas de partiklar (aerosoler) som fastnar på ett filter i den provtagare som beskrivs i Metodserien, Provtagning av totaldamm och respirabelt damm, Metod nr 1010, Arbetskyddsstyrelsen, numera Arbetsmiljöverket. Filterdiametern är normalt 37 mm, men kan även vara 25 mm. Trots sitt namn provtas inte den totala mängden luftburna partiklar med denna metod)
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m ³)	10 mg/m ³ inhalable aerosol 4 mg/m ³ respirable aerosol
Norway - Occupational Exposure Limits	
Local name	Titandioksid
Grenseverdier (AN) (mg/m ³)	5 mg/m ³
Regulatory reference	FOR-2020-04-06-695

Paint-Riter™ Valve Action Paint Marker White, Yellow, Red, Blue, Green, Orange, Aluminum, Pink, Light Blue, Light Green, Brown, Gold

Safety Data Sheet

according to Regulation (EU) 2015/830

Titanium dioxide (13463-67-7)	
Switzerland - Occupational Exposure Limits	
VME [mg/m ³]	3 mg/m ³
Remark	(respirable aerosol)
(2-Methoxymethylethoxy)-propanol (34590-94-8)	
EU - Occupational Exposure Limits	
Local name	(2-Methoxymethylethoxy)-propanol
IOELV TWA (mg/m ³)	308 mg/m ³
IOELV TWA (ppm)	50 ppm
Notes	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
Austria - Occupational Exposure Limits	
MAK [mg/m ³]	307 mg/m ³
MAK Daily average value (ppm)	50 ppm
MAK Short time value [mg/m ³]	614 mg/m ³
MAK Short time value [ppm]	100 ppm
Remark (AT)	max. 8x5 min./Schicht (gemessen als Momentanwert)
Belgium - Occupational Exposure Limits	
Limit value [mg/m ³]	308 mg/m ³
Limit value [ppm]	50 ppm
Remark (BE)	D
Czech Republic - Occupational Exposure Limits	
Local name	(2-Methoxymethylethoxy)-propanol (směs isomerů)
Expoziční limity (PEL) (mg/m ³)	270 mg/m ³
Expoziční limity (PEL) (ppm)	43.7 ppm
Expoziční limity (NPK-P) (mg/m ³)	550 mg/m ³
Expoziční limity (NPK-P) (ppm)	89.1 ppm
Remark (CZ)	D - při expozici se významně uplatňuje pronikání faktoru kůží.
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 41/2020 Sb.)
Denmark - Occupational Exposure Limits	
Local name	Dipropylenglycolmethylether (Methoxypropoxypropanol)
Grænsevædi (8 timer) (mg/m ³)	309 mg/m ³
Grænsevædi (8 timer) (ppm)	50 ppm
Grænsevædi (STEL) (mg/m ³)	600 mg/m ³
Grænsevædi (STEL) (ppm)	100 ppm
Anmærkninger (DK)	E (betyder, at stoffet har en EF-grænseværdi); H (betyder, at stoffet kan optages gennem huden)
Regulatory reference	BEK nr 1458 af 13/12/2019
Finland - Occupational Exposure Limits	
Local name	(2-Metoksimetyylietoksi)-propanoli
HTP-arvo (8h) (mg/m ³)	310 mg/m ³
HTP-arvo (8h) (ppm)	50 ppm
Huomautus (FI)	iho

Paint-Riter™ Valve Action Paint Marker White, Yellow, Red, Blue, Green, Orange, Aluminum, Pink, Light Blue, Light Green, Brown, Gold

Safety Data Sheet

according to Regulation (EU) 2015/830

(2-Methoxymethylethoxy)-propanol (34590-94-8)	
Regulatory reference	HTP-ARVOT 2018 (Sosiaali- ja terveystieteiden ministeriö)
France - Occupational Exposure Limits	
Local name	(2-méthoxyméthyléthoxy)-propanol
VME [mg/m ³]	308 mg/m ³
VME [ppm]	50 ppm
Note (FR)	Valeurs réglementaires contraignantes; risque de pénétration percutanée
Regulatory reference	Article R4412-149 du Code du travail (réf.: INRS ED 984, 2016; Décret n° 2019-1487)
Germany - Occupational Exposure Limits (TRGS 900)	
TRGS 900 Local name	(2-Methoxymethyl-ethoxy)propanol (Isomerengemisch)
Occupational exposure limit value (mg/m ³)	310 mg/m ³
Occupational exposure limit value (ppm)	50 ppm
Limitation of exposure peaks (mg/m ³)	310 mg/m ³
Limitation of exposure peaks (ppm)	50 ppm
Peak exposure limitation factor	1(I)
TRGS 900 Remark	DFG;EU;11
TRGS 900 Regulatory reference	TRGS900
Hungary - Occupational Exposure Limits	
Local name	(2-METOXIMETILETOXI)-PROPANOL (Dipropilénглиkol-monometil-éter)
AK-érték	308 mg/m ³
CK-érték	308 mg/m ³
Megjegyzések (HU)	EU1 (2000/39/EK irányelvben közölt érték); R (Azok az anyagok, amelyek egészségkárosító hatása RÖVID expozíció hatására jelentkeznek)
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m ³)	308 mg/m ³
OEL (8 hours ref) (ppm)	50 ppm
Notes (IE)	Sk, IOELV
Italy - Occupational Exposure Limits	
Local name	(2-metossimetiletossi)-propanolo
OEL TWA (mg/m ³)	308 mg/m ³
OEL TWA (ppm)	50 ppm
Notes	pelle
Regulatory reference	Allegato XXXVIII del D.Lgs. 9 aprile 2008, n. 81 e s.m.i.
Latvia - Occupational Exposure Limits	
Local name	Metoksi-propoksi propanols (dipropilénглиkola monometiléteris, DPM)
OEL TWA (mg/m ³)	308 mg/m ³
OEL TWA (ppm)	50 ppm
Remark (LV)	Āda
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2011. gada 1. februārī noteikumiem Nr. 92)
Lithuania - Occupational Exposure Limits	
IPRV (mg/m ³)	300 mg/m ³

Paint-Riter™ Valve Action Paint Marker White, Yellow, Red, Blue, Green, Orange, Aluminum, Pink, Light Blue, Light Green, Brown, Gold

Safety Data Sheet

according to Regulation (EU) 2015/830

(2-Methoxymethylethoxy)-propanol (34590-94-8)	
IPRV (ppm)	50 ppm
TPRV (mg/m ³)	450 mg/m ³
TPRV (ppm)	75 ppm
Remark (LT)	O
Netherlands - Occupational Exposure Limits	
Local name	Dipropyleenglycolmethylether
Grenswaarde TGG 8H (mg/m ³)	300 mg/m ³
Regulatory reference	Arbeidsomstandighedenregeling 2020
Poland - Occupational Exposure Limits	
Local name	(2-Metoksymetyloetoksy)propanol - mieszanina izomerów: 1-(2-metoksy-1-metyloetoksy)propan-2-ol, 1-(2-metoksy-2-metyloetoksy)propan-2-ol, 2-(2-metoksy-1-metyloetoksy)propan-1-ol
NDS (mg/m ³)	240 mg/m ³
NDSCh (mg/m ³)	480 mg/m ³
Remark (PL)	Skóra (Oznakowanie substancji notacją „skóra” oznacza, że wchłanianie substancji przez skórę może być tak samo istotne jak przy narażeniu drogą oddechową).
Regulatory reference	Dz. U. 2018 poz. 1286
Portugal - Occupational Exposure Limits	
Local name	2-Metoximetiletoxipropanol (DPGME)
OEL TWA (ppm)	100 ppm
OEL STEL (ppm)	150 ppm
Regulatory reference	Norma Portuguesa NP 1796:2014
Slovakia - Occupational Exposure Limits	
Local name	2-Metoxymetyl-etoxypropanol (dipropylén glykol mono-metyléter)
NPHV (priemerná) (mg/m ³)	308 mg/m ³
NPHV (priemerná) (ppm)	50 ppm
Upozornenie (SK)	K - znamená, že faktor môže byť ľahko absorbovaný kožou
Regulatory reference	Nariadenie vlády č. 33/2018 Z. z.
Slovenia - Occupational Exposure Limits	
Local name	(2-metoksimetiletoksi)propanol (mešanica izomer)
OEL TWA (mg/m ³)	308 mg/m ³
OEL TWA (ppm)	50 ppm
OEL STEL (mg/m ³)	308 mg/m ³
OEL STEL (ppm)	50 ppm
Remark (SI)	K (Lastnost lažjega prehajanja snovi v organizem skozi kožo), EU
Regulatory reference	Uradni list RS, št. 78/2019 z dne 20.12.2019
Spain - Occupational Exposure Limits	
Local name	Éter metílico de dipropilenglicol
VLA-ED (mg/m ³)	308 mg/m ³
VLA-ED (ppm)	50 ppm
Notes	Vía dérmica (Indica que, en las exposiciones a esta sustancia, la aportación por la vía cutánea puede resultar significativa para el contenido corporal total si no se adoptan medidas para prevenir la absorción. En estas situaciones, es aconsejable la utilización del control biológico para poder cuantificar la cantidad global absorbida del contaminante), VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo).

Paint-Riter™ Valve Action Paint Marker White, Yellow, Red, Blue, Green, Orange, Aluminum, Pink, Light Blue, Light Green, Brown, Gold

Safety Data Sheet

according to Regulation (EU) 2015/830

(2-Methoxymethylethoxy)-propanol (34590-94-8)	
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
Sweden - Occupational Exposure Limits	
Local name	Dipropylenglykolmonometyleter
nivågränsvärde (NVG) (mg/m ³)	300 mg/m ³
nivågränsvärde (NVG) (ppm)	50 ppm
kortidsvärde (KTV) (mg/m ³)	450 mg/m ³
kortidsvärde (KTV) (ppm)	75 ppm
Anmärkning (SE)	H (Ämnet kan lätt upptas genom huden. Det föreskrivna gränsvärdet bedöms ge tillräckligt skydd endast under förutsättning att huden är skyddad mot exponering för ämnet ifråga); V (Vägledande kortidsgränsvärde ska användas som ett rekommenderat högsta värde som inte bör överskridas)
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m ³)	308 mg/m ³
WEL TWA (ppm)	50 ppm
Remark (WEL)	(Sk)
Norway - Occupational Exposure Limits	
Local name	(2-metoksymetyletoksy)-propanol (Dipropylenglykolmetyleter)
Grenseverdier (AN) (mg/m ³)	300 mg/m ³
Grenseverdier (AN) (ppm)	50 ppm
Merknader (NO)	H: Kjemikalier som kan tas opp gjennom huden; E: EU har en veiledende grenseverdi for stoffet.
Regulatory reference	FOR-2020-04-06-695
Switzerland - Occupational Exposure Limits	
VME [mg/m ³]	300 mg/m ³
MAK (ppm)	50 ppm
KZGW (mg/m ³)	300 mg/m ³
KZGW (ppm)	50 ppm

ethanol (64-17-5)	
Austria - Occupational Exposure Limits	
MAK [mg/m ³]	1900 mg/m ³
MAK Daily average value (ppm)	1000 ppm
MAK Short time value [mg/m ³]	3800 mg/m ³ max. 3x60 min./Schicht (gemessen als Momentanwert)
MAK Short time value [ppm]	2000 ppm max. 3x60 min./Schicht (gemessen als Momentanwert)
Belgium - Occupational Exposure Limits	
Limit value [mg/m ³]	1907 mg/m ³
Limit value [ppm]	1000 ppm
Czech Republic - Occupational Exposure Limits	
Local name	Ethanol (Ethylalkohol)
Expoziční limity (PEL) (mg/m ³)	1000 mg/m ³
Expoziční limity (PEL) (ppm)	522 ppm
Expoziční limity (NPK-P) (mg/m ³)	3000 mg/m ³
Expoziční limity (NPK-P) (ppm)	1566 ppm

Paint-Riter™ Valve Action Paint Marker White, Yellow, Red, Blue, Green, Orange, Aluminum, Pink, Light Blue, Light Green, Brown, Gold

Safety Data Sheet

according to Regulation (EU) 2015/830

ethanol (64-17-5)	
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 41/2020 Sb.)
Denmark - Occupational Exposure Limits	
Local name	Ethanol (Ethylalkohol)
Grænsevædi (8 timer) (mg/m ³)	1900 mg/m ³
Grænsevædi (8 timer) (ppm)	1000 ppm
Grænsevædi (STEL) (mg/m ³)	3800 mg/m ³
Grænsevædi (STEL) (ppm)	2000 ppm
Regulatory reference	BEK nr 1458 af 13/12/2019
Finland - Occupational Exposure Limits	
Local name	Etanoli
HTP-arvo (8h) (mg/m ³)	1900 mg/m ³
HTP-arvo (8h) (ppm)	1000 ppm
HTP-arvo (15 min)	2500 mg/m ³
HTP-arvo (15 min) (ppm)	1300 ppm
Regulatory reference	HTP-ARVOT 2018 (Sosiaali- ja terveystieteiden tutkimuskeskus)
France - Occupational Exposure Limits	
Local name	Alcool éthylique
VME [mg/m ³]	1900 mg/m ³
VME [ppm]	1000 ppm
VLE [mg/m ³]	9500 mg/m ³
VLE [ppm]	5000 ppm
Note (FR)	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Germany - Occupational Exposure Limits (TRGS 900)	
TRGS 900 Local name	Ethanol
Occupational exposure limit value (mg/m ³)	380 mg/m ³
Occupational exposure limit value (ppm)	200 ppm
Peak exposure limitation factor	2(II)
TRGS 900 Remark	DFG;Y
TRGS 900 Regulatory reference	TRGS900
Hungary - Occupational Exposure Limits	
Local name	ETIL-ALKOHOL
AK-érték	1900 mg/m ³
CK-érték	3800 mg/m ³
Megjegyzések (HU)	N (Irritáló anyagok, egyszerű fojtógázok, csekély egészségkárosító hatással bíró anyagok)
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
Ireland - Occupational Exposure Limits	
OEL (15 min ref) (ppm)	1000 ppm
Latvia - Occupational Exposure Limits	
Local name	Etilspirts (etanols)
OEL TWA (mg/m ³)	1000 mg/m ³

Paint-Riter™ Valve Action Paint Marker White, Yellow, Red, Blue, Green, Orange, Aluminum, Pink, Light Blue, Light Green, Brown, Gold

Safety Data Sheet

according to Regulation (EU) 2015/830

ethanol (64-17-5)	
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325
Lithuania - Occupational Exposure Limits	
IPRV (mg/m ³)	1000 mg/m ³
IPRV (ppm)	500 ppm
TPRV (mg/m ³)	1900 mg/m ³
TPRV (ppm)	1000 ppm
Netherlands - Occupational Exposure Limits	
Local name	Ethanol
Grenswaarde TGG 8H (mg/m ³)	260 mg/m ³
Grenswaarde TGG 15MIN (mg/m ³)	1900 mg/m ³
Remark (MAC)	Kankerverwekkende stof. H (Huidopname) Stoffen die relatief gemakkelijk door de huid kunnen worden opgenomen, hetgeen een substantiële bijdrage kan betekenen aan de totale inwendige blootstelling, hebben in de lijst een H-aanduiding. Bij deze stoffen moeten naast maatregelen tegen inademing ook adequate maatregelen ter voorkoming van huidcontact worden genomen.
Regulatory reference	Arbeidsomstandighedenregeling 2020
Poland - Occupational Exposure Limits	
Local name	Etanol (alkohol etylowy)
NDS (mg/m ³)	1900 mg/m ³
Regulatory reference	Dz. U. 2018 poz. 1286
Portugal - Occupational Exposure Limits	
Local name	Etanol (Álcool etílico)
OEL STEL (ppm)	1000 ppm
Regulatory reference	Norma Portuguesa NP 1796:2014
Slovakia - Occupational Exposure Limits	
Local name	Etylalkohol (etanol)
NPHV (priemerná) (mg/m ³)	960 mg/m ³
NPHV (priemerná) (ppm)	500 ppm
OEL STEL (mg/m ³)	1920 mg/m ³
OEL STEL (ppm)	1000 ppm
Regulatory reference	Nariadenie vlády č. 33/2018 Z. z.
Slovenia - Occupational Exposure Limits	
Local name	etanol (etilalkohol)
OEL TWA (mg/m ³)	960 mg/m ³
OEL TWA (ppm)	500 ppm
OEL STEL (mg/m ³)	1920 mg/m ³
OEL STEL (ppm)	1000 ppm
Remark (SI)	Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti)
Regulatory reference	Uradni list RS, št. 78/2019 z dne 20.12.2019
Spain - Occupational Exposure Limits	
Local name	Etanol (Alcohol etílico)
VLA-ED (mg/m ³)	1910 mg/m ³
VLA-ED (ppm)	1000 ppm

Paint-Riter™ Valve Action Paint Marker White, Yellow, Red, Blue, Green, Orange, Aluminum, Pink, Light Blue, Light Green, Brown, Gold

Safety Data Sheet

according to Regulation (EU) 2015/830

ethanol (64-17-5)	
VLA-EC (mg/m ³)	1910 mg/m ³
VLA-EC (ppm)	1000 ppm
Notes	s (Esta sustancia tiene prohibida total o parcialmente su comercialización y uso como fitosanitario y/o como biocida. Para una información detallada acerca de las prohibiciones consúltese: Base de datos de productos biocidas: http://www.msssi.gob.es/ciudadanos/productos.do?tipo=plaguicidas Base de datos de productos fitosanitarios http://www.magrama.gob.es/agricultura/pags/fitos/registro/fichas/pdf/Lista_sa.pdf).
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
Sweden - Occupational Exposure Limits	
Local name	Etanol
nivågränsvärde (NVG) (mg/m ³)	1000 mg/m ³
nivågränsvärde (NVG) (ppm)	500 ppm
kortidsvärde (KTV) (mg/m ³)	1900 mg/m ³
kortidsvärde (KTV) (ppm)	1000 ppm
Anmärkning (SE)	V (Vägledande korttidsgränsvärde ska användas som ett rekommenderat högsta värde som inte bör överskridas)
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m ³)	1920 mg/m ³
WEL TWA (ppm)	1000 ppm
Norway - Occupational Exposure Limits	
Local name	Etanol
Grenseverdier (AN) (mg/m ³)	950 mg/m ³
Grenseverdier (AN) (ppm)	500 ppm
Regulatory reference	FOR-2020-04-06-695
Switzerland - Occupational Exposure Limits	
VME [mg/m ³]	960 mg/m ³
MAK (ppm)	500 ppm
KZGW (mg/m ³)	1920 mg/m ³
KZGW (ppm)	1000 ppm
Isopropanol (67-63-0)	
Austria - Occupational Exposure Limits	
MAK [mg/m ³]	500 mg/m ³
MAK Daily average value (ppm)	200 ppm
MAK Short time value [mg/m ³]	2000 mg/m ³ max. 4x15 min./Schicht
MAK Short time value [ppm]	800 ppm max. 4x15 min./Schicht
Belgium - Occupational Exposure Limits	
Limit value [mg/m ³]	500 mg/m ³
Limit value [ppm]	200 ppm
Short time value [mg/m ³]	1000 mg/m ³
Short time value [ppm]	400 ppm
Denmark - Occupational Exposure Limits	
Local name	Isopropylalkohol (Isopropanol; 2-Propanol; sec-Propylalkohol)

Paint-Riter™ Valve Action Paint Marker White, Yellow, Red, Blue, Green, Orange, Aluminum, Pink, Light Blue, Light Green, Brown, Gold

Safety Data Sheet

according to Regulation (EU) 2015/830

Isopropanol (67-63-0)	
Grænsevæði (8 timer) (mg/m ³)	490 mg/m ³
Grænsevæði (8 timer) (ppm)	200 ppm
Grænsevæði (STEL) (mg/m ³)	980 mg/m ³
Grænsevæði (STEL) (ppm)	400 ppm
Regulatory reference	BEK nr 1458 af 13/12/2019
Finland - Occupational Exposure Limits	
Local name	2-Propanoli
HTP-arvo (8h) (mg/m ³)	500 mg/m ³
HTP-arvo (8h) (ppm)	200 ppm
HTP-arvo (15 min)	620 mg/m ³
HTP-arvo (15 min) (ppm)	250 ppm
France - Occupational Exposure Limits	
Local name	Alcool isopropylique
VLE [mg/m ³]	980 mg/m ³
VLE [ppm]	400 ppm
Note (FR)	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Germany - Occupational Exposure Limits (TRGS 900)	
TRGS 900 Local name	Propan-2-ol
Occupational exposure limit value (mg/m ³)	500 mg/m ³
Occupational exposure limit value (ppm)	200 ppm
Peak exposure limitation factor	2(II)
TRGS 900 Remark	DFG;Y
TRGS 900 Regulatory reference	TRGS900
Germany - Biological limit values (TRGS 903)	
TRGS 903 Biological limit value	50 mg/l Aceton (Blut; Expositionsende bzw. Schichtende)
Hungary - Occupational Exposure Limits	
Local name	IZOPROPIL-ALKOHOL
AK-érték	500 mg/m ³
CK-érték	1000 mg/m ³
Megjegyzések (HU)	b (Bőrön át is felszívódik), i (ingerlő anyag, amely izgatja a bőrt, nyálkahártyát, szemet vagy mindhármát); R (Azok az anyagok, amelyek egészségkárosító hatása RÖVID expozíció hatására jelentkezik)
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóros tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
Hungary - Biological limit values	
Local name	Izopropil-alkohol (2-Propanol)
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóros tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (ppm)	200 ppm
OEL (15 min ref) (ppm)	400 ppm
Notes (IE)	Sk

Paint-Riter™ Valve Action Paint Marker White, Yellow, Red, Blue, Green, Orange, Aluminum, Pink, Light Blue, Light Green, Brown, Gold

Safety Data Sheet

according to Regulation (EU) 2015/830

Isopropanol (67-63-0)	
Latvia - Occupational Exposure Limits	
Local name	Izopropanols (2-propanols, izopropilspirts, 1-metil-1-etanols)
OEL TWA (mg/m ³)	350 mg/m ³
OEL STEL (mg/m ³)	600 mg/m ³
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2011. gada 1. februārī noteikumiem Nr. 92)
Lithuania - Occupational Exposure Limits	
IPRV (mg/m ³)	350 mg/m ³
IPRV (ppm)	150 ppm
TPRV (mg/m ³)	600 mg/m ³
TPRV (ppm)	250 ppm
Netherlands - Occupational Exposure Limits	
Grenswaarde TGG 8H (mg/m ³)	650 mg/m ³
Grenswaarde TGG 8H (ppm)	250 ppm
Poland - Occupational Exposure Limits	
Local name	Propan-2-ol (izopropylowy alkohol)
NDS (mg/m ³)	900 mg/m ³
NDSCh (mg/m ³)	1200 mg/m ³
Remark (PL)	Skóra (Oznakowanie substancji notacją „skóra” oznacza, że wchłanianie substancji przez skórę może być tak samo istotne jak przy narażeniu drogą oddechową).
Regulatory reference	Dz. U. 2018 poz. 1286
Portugal - Occupational Exposure Limits	
Local name	2-Propanol (isopropanol ou álcool isopropílico)
OEL TWA (ppm)	200 ppm
OEL STEL (ppm)	400 ppm
Regulatory reference	Norma Portuguesa NP 1796:2014
Portugal - Biological limit values	
Local name	2-Propanol
Portugal (BEI)	40 mg/l Parâmetro: Acetona - Meio: urina - Momento da amostragem: Fim do turno no fim da semana de trabalho - Notação: Vb (Valor basal), Ne (Não específico)
Regulatory reference	Norma Portuguesa NP 1796:2014
Slovakia - Occupational Exposure Limits	
Local name	Izopropylalkohol (propán-2-ol)
NPHV (priemerná) (mg/m ³)	500 mg/m ³
NPHV (priemerná) (ppm)	200 ppm
OEL STEL (mg/m ³)	1000 mg/m ³
OEL STEL (ppm)	400 ppm
Regulatory reference	Nariadenie vlády č. 33/2018 Z. z.
Slovenia - Occupational Exposure Limits	
Local name	propan-2-ol (izopropilalkohol; izopropanol)
OEL TWA (mg/m ³)	500 mg/m ³
OEL TWA (ppm)	200 ppm
OEL STEL (mg/m ³)	1000 mg/m ³

Paint-Riter™ Valve Action Paint Marker White, Yellow, Red, Blue, Green, Orange, Aluminum, Pink, Light Blue, Light Green, Brown, Gold

Safety Data Sheet

according to Regulation (EU) 2015/830

Isopropanol (67-63-0)	
OEL STEL (ppm)	400 ppm
Remark (SI)	Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti), BAT (Biološka mejna vrednost)
Regulatory reference	Uradni list RS, št. 78/2019 z dne 20.12.2019
Slovenia - Biological limit values	
Local name	2-propanol
Regulatory reference	Uradni list RS, št. 78/2018 z dne 4.12.2018
Spain - Occupational Exposure Limits	
Local name	Isopropanol (Alcohol isopropílico)
VLA-ED (mg/m ³)	500 mg/m ³
VLA-ED (ppm)	200 ppm
VLA-EC (mg/m ³)	1000 mg/m ³
VLA-EC (ppm)	400 ppm
Notes	VLB® (Agente químico que tiene Valor Límite Biológico), s (Esta sustancia tiene prohibida total o parcialmente su comercialización y uso como fitosanitario y/o como biocida. Para una información detallada acerca de las prohibiciones consúltese: Base de datos de productos biocidas: http://www.msssi.gob.es/ciudadanos/productos.do?tipo=plaguicidas Base de datos de productos fitosanitarios http://www.magrama.gob.es/agricultura/pags/fitos/registro/fichas/pdf/Lista_sa.pdf).
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
Spain - Biological limit values	
Local name	Isopropanol (Alcohol isopropílico)
Spain - BLV	40 mg/l Parámetro: Acetona - Medio: Orina - Momento de muestreo: Final de la semana laboral - Notas: F (Fondo. El indicador está generalmente presente en cantidades detectables en personas no expuestas laboralmente. Estos niveles de fondo están considerados en el valor VLB), I (Significa que el indicador biológico es inespecífico puesto que puede encontrarse después de la exposición a otros agentes químicos)
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
Sweden - Occupational Exposure Limits	
Local name	Isopropanol
nivågränsvärde (NVG) (mg/m ³)	350 mg/m ³
nivågränsvärde (NVG) (ppm)	150 ppm
kortidsvärde (KTV) (mg/m ³)	600 mg/m ³
kortidsvärde (KTV) (ppm)	250 ppm
Anmärkning (SE)	V (Vägledande korttidsgränsvärde ska användas som ett rekommenderat högsta värde som inte bör överskridas)
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m ³)	999 mg/m ³
WEL TWA (ppm)	400 ppm
WEL STEL (mg/m ³)	1250 mg/m ³
WEL STEL [ppm]	500 ppm
Norway - Occupational Exposure Limits	
Local name	2-propanol (Isopropanol)
Grenseverdier (AN) (mg/m ³)	245 mg/m ³
Grenseverdier (AN) (ppm)	100 ppm

Paint-Riter™ Valve Action Paint Marker White, Yellow, Red, Blue, Green, Orange, Aluminum, Pink, Light Blue, Light Green, Brown, Gold

Safety Data Sheet

according to Regulation (EU) 2015/830

Isopropanol (67-63-0)	
Regulatory reference	FOR-2020-04-06-695
Switzerland - Occupational Exposure Limits	
VME [mg/m ³]	500 mg/m ³
MAK (ppm)	200 ppm 25 ppm acetone (urina; fine dell'esposizione / del turno) 25 ppm acetone (sangue; fine dell'esposizione / del turno)
KZGW (mg/m ³)	1000 mg/m ³ max. 4x15 min./turno
KZGW (ppm)	400 ppm max. 4x15 min./turno
propyl acetate (109-60-4)	
Austria - Occupational Exposure Limits	
Remark (AT)	(gemessen als Momentanwert)
Czech Republic - Occupational Exposure Limits	
Local name	n-Propylacetát
Expoziční limity (PEL) (mg/m ³)	800 mg/m ³
Expoziční limity (PEL) (ppm)	190 ppm
Expoziční limity (NPK-P) (mg/m ³)	1000 mg/m ³
Expoziční limity (NPK-P) (ppm)	240 ppm
Remark (CZ)	I
Denmark - Occupational Exposure Limits	
Local name	n-Propylacetat
Grænsevædi (8 timer) (mg/m ³)	625 mg/m ³
Grænsevædi (8 timer) (ppm)	150 ppm
Grænsevædi (STEL) (mg/m ³)	1250 mg/m ³
Grænsevædi (STEL) (ppm)	300 ppm
Finland - Occupational Exposure Limits	
Local name	1-Propyyliasettaatti
HTP-arvo (8h) (mg/m ³)	420 mg/m ³
HTP-arvo (8h) (ppm)	100 ppm
HTP-arvo (15 min)	850 mg/m ³
HTP-arvo (15 min) (ppm)	200 ppm
France - Occupational Exposure Limits	
Local name	Acétate de n-propyle
VME [mg/m ³]	840 mg/m ³
VME [ppm]	200 ppm
Note (FR)	Valeurs recommandées/admises
Hungary - Occupational Exposure Limits	
Local name	PROPIIL-ACETÁT
AK-érték	840 mg/m ³
CK-érték	840 mg/m ³
Megjegyzések (HU)	b, i; l.
Latvia - Occupational Exposure Limits	
Local name	Propilacetāts (etiķskābespropilesteris)

Paint-Riter™ Valve Action Paint Marker White, Yellow, Red, Blue, Green, Orange, Aluminum, Pink, Light Blue, Light Green, Brown, Gold

Safety Data Sheet

according to Regulation (EU) 2015/830

propyl acetate (109-60-4)	
OEL TWA (mg/m ³)	200 mg/m ³
Poland - Occupational Exposure Limits	
Local name	Octan propylu
NDS (mg/m ³)	200 mg/m ³
NDSch (mg/m ³)	400 mg/m ³
Portugal - Occupational Exposure Limits	
Local name	Acetato de n-propilo
OEL TWA (ppm)	200 ppm
OEL STEL (ppm)	250 ppm
Slovakia - Occupational Exposure Limits	
Local name	Propylacetát (octan propylový)
NPHV (priemerná) (mg/m ³)	400 mg/m ³
NPHV (priemerná) (ppm)	100 ppm
OEL STEL (mg/m ³)	800 mg/m ³
OEL STEL (ppm)	200 ppm
Slovenia - Occupational Exposure Limits	
Local name	propilacetat
OEL TWA (mg/m ³)	420 mg/m ³
OEL TWA (ppm)	100 ppm
OEL STEL (mg/m ³)	420 mg/m ³
OEL STEL (ppm)	100 ppm
Spain - Occupational Exposure Limits	
Local name	Acetato de n-propilo
VLA-ED (mg/m ³)	849 mg/m ³
VLA-ED (ppm)	200 ppm
VLA-EC (mg/m ³)	1060 mg/m ³
VLA-EC (ppm)	250 ppm
Sweden - Occupational Exposure Limits	
Local name	Propylacetat
nivågränsvärde (NVG) (mg/m ³)	400 mg/m ³
nivågränsvärde (NVG) (ppm)	100 ppm
kortidsvärde (KTV) (mg/m ³)	800 mg/m ³
kortidsvärde (KTV) (ppm)	200 ppm
Anmärkning (SE)	V (Vägledande korttidsgränsvärde ska användas som ett rekommenderat högsta värde som inte bör överskridas)
Norway - Occupational Exposure Limits	
Local name	n-propylacetat
Grenseverdier (AN) (mg/m ³)	420 mg/m ³
Grenseverdier (AN) (ppm)	100 ppm
barium sulfate (7727-43-7)	
Belgium - Occupational Exposure Limits	
Limit value [mg/m ³]	10 mg/m ³

Paint-Riter™ Valve Action Paint Marker White, Yellow, Red, Blue, Green, Orange, Aluminum, Pink, Light Blue, Light Green, Brown, Gold

Safety Data Sheet

according to Regulation (EU) 2015/830

barium sulfate (7727-43-7)	
Remark (BE)	(sulfate de)
Germany - Occupational Exposure Limits (TRGS 900)	
TRGS 900 Local name	Bariumsulfat
Occupational exposure limit value (mg/m ³)	1.25 mg/m ³ A (mg/m ³) 10 mg/m ³ E (mg/m ³)
TRGS 900 Remark	AGS,DFG
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m ³)	2 mg/m ³
Portugal - Occupational Exposure Limits	
Local name	Sulfato de bário
OEL TWA (mg/m ³)	5 mg/m ³ I (Fração inalável), E (O valor aplica-se a partículas sem amianto e contendo menos de 1 % de sílica cristalina)
Regulatory reference	Norma Portuguesa NP 1796:2014
Slovakia - Occupational Exposure Limits	
Local name	Síran (sulfát) bárnatý
NPHV (priemerná) (mg/m ³)	1.5 mg/m ³ (respirabilná frakcia) 4 mg/m ³ (inhalovateľná frakcia)
Regulatory reference	Nariadenie vlády č. 33/2018 Z. z.
Spain - Occupational Exposure Limits	
Local name	Sulfato de bario
VLA-ED (mg/m ³)	10 mg/m ³
Notes	e
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m ³)	10 mg/m ³ inhalable aerosol 4 mg/m ³ respirable aerosol

Aluminium (7429-90-5)	
Belgium - Occupational Exposure Limits	
Limit value [mg/m ³]	1 mg/m ³
Remark (BE)	(Aluminium, métal et composés insolubles, fraction alvéolaire)
Denmark - Occupational Exposure Limits	
Local name	Aluminium, pulver og støv
Grænsevædi (8 timer) (mg/m ³)	5 mg/m ³ total
Grænsevædi (STEL) (mg/m ³)	4 mg/m ³ (respirabel) 10 mg/m ³ (total)
Regulatory reference	BEK nr 1458 af 13/12/2019
Finland - Occupational Exposure Limits	
HTP-arvo (8h) (mg/m ³)	2 mg/m ³
Huomautus (FI)	(Alumiini, liukoiset yhdisteet)
France - Occupational Exposure Limits	
Local name	Aluminium
VME [mg/m ³]	10 mg/m ³ (métal) 5 mg/m ³ (pulvérulent)
Note (FR)	Valeurs recommandées/admises

Paint-Riter™ Valve Action Paint Marker White, Yellow, Red, Blue, Green, Orange, Aluminum, Pink, Light Blue, Light Green, Brown, Gold

Safety Data Sheet

according to Regulation (EU) 2015/830

Aluminium (7429-90-5)	
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Germany - Occupational Exposure Limits (TRGS 900)	
TRGS 900 Local name	Aluminium
Germany - Biological limit values (TRGS 903)	
TRGS 903 Biological limit value	200 µg/l
TRGS 903 Remark	Aluminium (Urin; Expositionsende bzw. Schichtende)
Hungary - Occupational Exposure Limits	
Megjegyzések (HU)	(respirábilis por)
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m³)	1 mg/m³
Notes (IE)	(respirable dust)
Latvia - Occupational Exposure Limits	
Local name	Alumīnijs un tā sakausējumi (pēc alumīnija)
OEL TWA (mg/m³)	2 mg/m³
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2011. gada 1. februārī noteikumiem Nr. 92)
Lithuania - Occupational Exposure Limits	
IPRV (mg/m³)	2 mg/m³ (alveoline frakcija) 1 mg/m³ (Aluminis (metalas) ir jo tirpus junginiai, kaip Al) 5 mg/m³ (ákvepiamoji frakcija)
Netherlands - Occupational Exposure Limits	
Grenswaarde TGG 8H (mg/m³)	10 mg/m³
Poland - Occupational Exposure Limits	
Local name	Glin metaliczny, glin proszek (niestabilizowany)
NDS (mg/m³)	2.5 mg/m³ frakcja wdychalna 1.2 mg/m³ frakcja respirabilna
Remark (PL)	Frakcja wdychalna – frakcja aerozolu wnikaćca przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia. Frakcja respirabilna – frakcja aerozolu wnikaćca do dróg oddechowych, która stwarza zagrożenie dla zdrowia po zdeponowaniu w obszarze wymiany gazowej.
Regulatory reference	Dz. U. 2018 poz. 1286
Portugal - Occupational Exposure Limits	
Local name	Alumínio e compostos insolúveis, expresso em Al
OEL TWA (mg/m³)	1 mg/m³ R (Fração respirável)
Regulatory reference	Norma Portuguesa NP 1796:2014
Slovakia - Occupational Exposure Limits	
Local name	Hliník kovový
NPHV (priemerná) (mg/m³)	4 mg/m³ inhalovateľná frakcia – prach 1.5 mg/m³ respirabilná frakcia – prach
NPHV (priemerná) (ppm)	60 µg/g creatinine (Hliník, M,a) 25 µg/g creatinine (Celkový, M.,d) 150 µg/g creatinine (Celkový,M,b)
Regulatory reference	Nariadenie vlády č. 33/2018 Z. z.
Slovakia - Biological limit values	
Local name	Hliník

Paint-Riter™ Valve Action Paint Marker White, Yellow, Red, Blue, Green, Orange, Aluminum, Pink, Light Blue, Light Green, Brown, Gold

Safety Data Sheet

according to Regulation (EU) 2015/830

Aluminium (7429-90-5)	
Slovakia - BLV	60 µg/g creatinine Zisťovaný faktor: Hliník - Vyšetovaný materiál: moč - Čas odberu vzorky: a) žiadne obmedzenie
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (Zmena: 471/2011 Z.z.)
Slovenia - Biological limit values	
Local name	aluminij
Regulatory reference	Uradni list RS, št. 78/2018 z dne 4.12.2018
Spain - Occupational Exposure Limits	
Local name	Aluminio
VLA-ED (mg/m ³)	10 mg/m ³ (inhalable aerosol) 5 mg/m ³ (respirable aerosol)
Sweden - Occupational Exposure Limits	
Local name	Aluminium, lösliga föreningar (som Al)
nivågränsvärde (NVG) (mg/m ³)	1 mg/m ³ totaldamm
Anmärkning (SE)	3 (Med totaldamm menas de partiklar (aerosoler) som fastnar på ett filter i den provtagare som beskrivs i Metodserien, Provtagning av totaldamm och respirabelt damm, Metod nr 1010, Arbetskyddsstyrelsen, numera Arbetsmiljöverket. Filterdiametern är normalt 37 mm, men kan även vara 25 mm. Trots sitt namn provtas inte den totala mängden luftburna partiklar med denna metod)
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m ³)	10 mg/m ³ (inhalable dust) 4 mg/m ³ (respirable dust)
Norway - Occupational Exposure Limits	
Local name	Aluminiumpulver (pyroteknikk)
Grenseverdier (AN) (mg/m ³)	5 mg/m ³
Merknader (NO)	(Aluminiumpulver, pyroteknikk)
Regulatory reference	FOR-2020-04-06-695
Switzerland - Occupational Exposure Limits	
VME [mg/m ³]	3 mg/m ³
Remark	(alveolengängiger Staub)

8.2. Exposure controls

Appropriate engineering controls:

Provide local exhaust ventilation of closed transfer systems to minimize exposures. Avoid creating mist or spray. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

In case of repeated or prolonged contact wear gloves. Butyl rubber gloves. short term. nitrile rubber gloves. EN374

Eye protection:

Chemical goggles or safety glasses. EN166

Respiratory protection:

None under normal use

Consumer exposure controls:

Keep out of reach of children.

Paint-Riter™ Valve Action Paint Marker White, Yellow, Red, Blue, Green, Orange, Aluminum, Pink, Light Blue, Light Green, Brown, Gold

Safety Data Sheet

according to Regulation (EU) 2015/830

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Solid marker containing liquid colored paint.
Colour	: Variable.
Odour	: Solvent.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: < 1
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 78.3 °C
Flash point	: 12.2 °C
Auto-ignition temperature	: 287 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: Flammable liquid and vapour.
Vapour pressure	: 11.8
Relative vapour density at 20 °C	: No data available
Relative density	: 1 – 1.33
Solubility	: insoluble in water.
Log Pow	: 0.7
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

VOC content	: 50 – 60 %
-------------	-------------

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known.

10.2. Chemical stability

Flammable liquid and vapour.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Open flame. Overheating. Direct sunlight. Heat. Sparks.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

May release flammable gases. Burning produces irritating, toxic and noxious fumes. Carbon oxides (CO, CO₂).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)

1-Methoxy-2-propanol (107-98-2)

LD50 oral rat	4016 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg bodyweight
LC50 Inhalation - Rat [ppm]	> 7000 ppm 6 hr

Ethyl acetate (141-78-6)

LD50 oral rat	4934 mg/kg
LD50 oral	10200 mg/kg

Paint-Riter™ Valve Action Paint Marker White, Yellow, Red, Blue, Green, Orange, Aluminum, Pink, Light Blue, Light Green, Brown, Gold

Safety Data Sheet

according to Regulation (EU) 2015/830

LD50 dermal rabbit	> 20000 mg/kg
LC50 Inhalation - Rat	> 18 mg/l/4h

Butyl acetate (123-86-4)	
LD50 oral rat	10760 mg/kg
LD50 dermal rabbit	> 14112 mg/kg
LC50 Inhalation - Rat	> 21 mg/l/4h

2-methoxy-1-methylethyl acetate (108-65-6)	
LD50 oral rat	8532 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 Inhalation - Rat [ppm]	4345 ppm 6 h

2-methoxypropyl acetate (70657-70-4)	
LC50 Inhalation - Rat [ppm]	2700 ppm 6 h

2-methylpropan-1-ol (78-83-1)	
LD50 oral rat	3350 mg/kg
LD50 dermal rabbit	2460 mg/kg
LC50 Inhalation - Rat	24.6 mg/l/4h

Aluminum oxide (1344-28-1)	
LD50 oral rat	> 15900 mg/kg
LC50 Inhalation - Rat	7.6 mg/l/4h

Silicon dioxide (amorphous) (7631-86-9)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 Inhalation - Rat	> 58.8 mg/l/4h

Titanium dioxide (13463-67-7)	
LD50 oral rat	> 5000 mg/kg
LC50 Inhalation - Rat	> 6.82 mg/l/4h

(2-Methoxymethylethoxy)-propanol (34590-94-8)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 19020 mg/kg
LC50 Inhalation - Rat	> 1667 mg/l/4h
LC50 Inhalation - Rat (Dust/Mist)	> 1667 mg/l/4h

ethanol (64-17-5)	
LD50 oral rat	10470 mg/kg
LD50 dermal rabbit	> 20000 mg/kg
LC50 Inhalation - Rat	133.8 mg/l/4h

Paint-Riter™ Valve Action Paint Marker White, Yellow, Red, Blue, Green, Orange, Aluminum, Pink, Light Blue, Light Green, Brown, Gold

Safety Data Sheet

according to Regulation (EU) 2015/830

Isopropanol (67-63-0)	
LD50 oral rat	5840 mg/kg
LD50 dermal rabbit	16.4 ml/kg
LC50 Inhalation - Rat [ppm]	> 10000 ppm/4h

propyl acetate (109-60-4)	
LD50 oral rat	8700 mg/kg
LD50 dermal rabbit	> 17800 mg/kg
LC50 Inhalation - Rat	32 mg/l/4h

4-[[4-(aminocarbonyl)phenyl]azo]-N-(2-ethoxyphenyl)-3-hydroxynaphthalene-2-carboxamide, C.I. Pigment Red 170 (naphthol <1%) (2786-76-7)	
LD50 oral rat	> 15000 mg/kg
LC50 Inhalation - Rat	> 1580 mg/m ³ 4 h

barium sulfate (7727-43-7)	
LD50 oral rat	307 g/kg
LD50 dermal rat	> 2000 mg/kg

[N,N,N',N'',N''',N''''-hexaethyl-29H,31H-phthalocyaninetrimethylamino(2-)-N29,N30,N31,N32]copper (28654-73-1)	
LD50 oral rat	> 10000 mg/kg
LD50 dermal rat	> 2500 mg/kg

Aluminium (7429-90-5)	
LD50 oral rat	> 15900 mg/kg
LC50 Inhalation - Rat	> 2.3 mg/l/4h

Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met)
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met)
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)

Silicon dioxide (amorphous) (7631-86-9)	
IARC group	3 - Not classifiable

Titanium dioxide (13463-67-7)	
IARC group	2B - Possibly carcinogenic to humans

ethanol (64-17-5)	
IARC group	1 - Carcinogenic to humans,Alcoholic beverages

Isopropanol (67-63-0)	
IARC group	3 - Not classifiable

Titanium dioxide (13463-67-7)	
NOAEL (chronic, oral, animal/male, 2 years)	5 mg/kg bodyweight rat
Additional information	Carcinogen, cat 1A or 1B. Inhalation of dust

Paint-Riter™ Valve Action Paint Marker White, Yellow, Red, Blue, Green, Orange, Aluminum, Pink, Light Blue, Light Green, Brown, Gold

Safety Data Sheet

according to Regulation (EU) 2015/830

barium sulfate (7727-43-7)	
NOAEL (chronic, oral, animal/male, 2 years)	60 mg/kg bodyweight
NOAEL (chronic, oral, animal/female, 2 years)	75 mg/kg bodyweight

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)

Ethyl acetate (141-78-6)	
NOAEL (animal/male, F0/P)	26400 mg/kg
NOAEL (animal/female, F0/P)	26400 mg/kg

STOT-single exposure : May cause drowsiness or dizziness.

STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)

Ethyl acetate (141-78-6)	
NOAEL (subchronic, oral, animal/male, 90 days)	900 mg/kg bodyweight
NOAEL (subchronic, oral, animal/female, 90 days)	900 mg/kg bodyweight

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

1-Methoxy-2-propanol (107-98-2)	
LC50 fish 1	20800 mg/l
EC50 crustacea	23300 mg/l
ErC50 (algae)	> 1000 mg/l

Ethyl acetate (141-78-6)	
LC50 fish 1	220 mg/l
EC50 crustacea	1200 mg/l
NOEC chronic fish	< 9.35 mg/l

2-methoxy-1-methylethyl acetate (108-65-6)	
LC50 fish 1	100 – 180 mg/l
EC50 crustacea	> 500 mg/l 48 h
ErC50 (algae)	> 1000 mg/l

2-methylpropan-1-ol (78-83-1)	
LC50 fish 1	1430 mg/l 96 h
EC50 crustacea	1100 mg/l 48 h

Aluminum oxide (1344-28-1)	
EC50 crustacea	1470 mg/l
NOEC (acute)	50 mg/l

Silicon dioxide (amorphous) (7631-86-9)	
LC50 fish 1	> 10000 mg/l

Paint-Riter™ Valve Action Paint Marker White, Yellow, Red, Blue, Green, Orange, Aluminum, Pink, Light Blue, Light Green, Brown, Gold

Safety Data Sheet

according to Regulation (EU) 2015/830

EC50 crustacea	> 1000 mg/l
----------------	-------------

(2-Methoxymethylethoxy)-propanol (34590-94-8)

LC50 fish 1	> 1000 mg/l <i>Poecilia reticulata</i>
ErC50 (algae)	> 1000 mg/l

ethanol (64-17-5)

LC50 fish 1	14200 mg/l
EC50 crustacea	5012 mg/l

Isopropanol (67-63-0)

LC50 fish 1	10000 mg/l
-------------	------------

propyl acetate (109-60-4)

LC50 fish 1	60 mg/l 96 h
EC50 crustacea	91.5 mg/l 48 h

4-[[4-(aminocarbonyl)phenyl]azo]-N-(2-ethoxyphenyl)-3-hydroxynaphthalene-2-carboxamide, C.I. Pigment Red 170 (naphthol <1%) (2786-76-7)

LC50 fish 1	> 500 mg/l 96 h
EC50 crustacea	> 110 mg/l 48 h

barium sulfate (7727-43-7)

LC50 fish 1	> 3.5 mg/l 96 h
EC50 crustacea	14500 µg/l 48 h

[N,N,N',N',N'',N''-hexaethyl-29H,31H-phthalocyaninetrimethylamino(2-)-N29,N30,N31,N32]copper (28654-73-1)

LC50 fish 1	> 146 mg/l 96 h
EC50 crustacea	> 100 mg/l 48 h

Aluminium (7429-90-5)

LC50 fish 1	218.64 mg/l ASTM 2000; test material: aluminium chloride hexahydrate; <i>Pimephales promelas</i>
EC50 crustacea	1.4 mg/l OECD Guideline 202; test material: Aluminium hydroxide
LOEC (acute)	≈ 72.89 mg/l
NOEC (acute)	≈ 37.2 mg/l

12.2. Persistence and degradability

Paint-Riter™ Valve Action Paint Marker White, Yellow, Red, Blue, Green, Orange, Aluminum, Pink, Light Blue, Light Green, Brown, Gold

Persistence and degradability	Not established.
-------------------------------	------------------

1-Methoxy-2-propanol (107-98-2)

Persistence and degradability	Readily biodegradable.
Biodegradation	96 % 28 d

Ethyl acetate (141-78-6)

Persistence and degradability	Readily biodegradable.
-------------------------------	------------------------

Paint-Riter™ Valve Action Paint Marker White, Yellow, Red, Blue, Green, Orange, Aluminum, Pink, Light Blue, Light Green, Brown, Gold

Safety Data Sheet

according to Regulation (EU) 2015/830

2-methoxy-1-methylethyl acetate (108-65-6)	
Persistence and degradability	Readily biodegradable.
Biodegradation	89 % 10 d

2-methylpropan-1-ol (78-83-1)	
Biodegradation	70 (70 – 80) % 28 d

Silicon dioxide (amorphous) (7631-86-9)	
Persistence and degradability	Product persists.

(2-Methoxymethylethoxy)-propanol (34590-94-8)	
Persistence and degradability	Readily biodegradable.

ethanol (64-17-5)	
Biodegradation	> 96 % 28 d

Isopropanol (67-63-0)	
Persistence and degradability	Readily biodegradable.

propyl acetate (109-60-4)	
Persistence and degradability	Readily biodegradable.
Biodegradation	62 % 5 d

4-[[4-(aminocarbonyl)phenyl]azo]-N-(2-ethoxyphenyl)-3-hydroxynaphthalene-2-carboxamide, C.I. Pigment Red 170 (naphthol <1%) (2786-76-7)	
Persistence and degradability	Not readily biodegradable.
Biodegradation	0 % 28 d

12.3. Bioaccumulative potential

Paint-Riter™ Valve Action Paint Marker White, Yellow, Red, Blue, Green, Orange, Aluminum, Pink, Light Blue, Light Green, Brown, Gold	
Log Pow	0.7
Bioaccumulative potential	Not established.

1-Methoxy-2-propanol (107-98-2)	
Bioaccumulative potential	Not expected to bioaccumulate.

Ethyl acetate (141-78-6)	
Bioaccumulative potential	Not expected to bioaccumulate.

2-methoxy-1-methylethyl acetate (108-65-6)	
Log Pow	0.43

2-methylpropan-1-ol (78-83-1)	
Log Pow	0.76

ethanol (64-17-5)	
Bioaccumulative potential	Not expected to bioaccumulate.

Paint-Riter™ Valve Action Paint Marker White, Yellow, Red, Blue, Green, Orange, Aluminum, Pink, Light Blue, Light Green, Brown, Gold

Safety Data Sheet

according to Regulation (EU) 2015/830

Isopropanol (67-63-0)

Bioaccumulative potential	Not expected to bioaccumulate.
---------------------------	--------------------------------

propyl acetate (109-60-4)

Log Pow	1.23
---------	------

4-[[4-(aminocarbonyl)phenyl]azo]-N-(2-ethoxyphenyl)-3-hydroxynaphthalene-2-carboxamide, C.I. Pigment Red 170 (naphthol <1%) (2786-76-7)

BCF fish 1	53 l/kg
------------	---------

Log Pow	1.28
---------	------

barium sulfate (7727-43-7)

BCF fish 1	68.4 L/kg
------------	-----------

12.4. Mobility in soil

Paint-Riter™ Valve Action Paint Marker White, Yellow, Red, Blue, Green, Orange, Aluminum, Pink, Light Blue, Light Green, Brown, Gold

Ecology - soil	No additional information available.
----------------	--------------------------------------

12.5. Results of PBT and vPvB assessment

Paint-Riter™ Valve Action Paint Marker White, Yellow, Red, Blue, Green, Orange, Aluminum, Pink, Light Blue, Light Green, Brown, Gold

PBT: not yet assessed

vPvB: not yet assessed

12.6. Other adverse effects

Additional information	: No additional information available
------------------------	---------------------------------------

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Sewage disposal recommendations	: Do not dispose of waste into sewer.
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Additional information	: Handle empty containers with care because residual vapours are flammable.
European List of Waste (LoW) code	: For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.
HP Code	: HP13 - "Sensitising:" waste which contains one or more substances known to cause sensitising effects to the skin or the respiratory organs. HP3 - "Flammable:" — flammable liquid waste: liquid waste having a flash point below 60 °C or waste gas oil, diesel and light heating oils having a flash point > 55 °C and ≤ 75 °C; — flammable pyrophoric liquid and solid waste: solid or liquid waste which, even in small quantities, is liable to ignite within five minutes after coming into contact with air; — flammable solid waste: solid waste which is readily combustible or may cause or contribute to fire through friction; — flammable gaseous waste: gaseous waste which is flammable in air at 20 °C and a standard pressure of 101.3 kPa; — water reactive waste: waste which, in contact with water, emits flammable gases in dangerous quantities; — other flammable waste: flammable aerosols, flammable self-heating waste, flammable organic peroxides and flammable self-reactive waste. HP5 - "Specific Target Organ Toxicity (STOT)/Aspiration Toxicity:" waste which can cause specific target organ toxicity either from a single or repeated exposure, or which cause acute toxic effects following aspiration.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR)	: UN 1263
UN-No. (IMDG)	: UN 1263
UN-No. (IATA)	: UN 1263
UN-No. (ADN)	: UN 1263
UN-No. (RID)	: UN 1263

Paint-Riter™ Valve Action Paint Marker White, Yellow, Red, Blue, Green, Orange, Aluminum, Pink, Light Blue, Light Green, Brown, Gold

Safety Data Sheet

according to Regulation (EU) 2015/830

14.2. UN proper shipping name

Proper Shipping Name (ADR)	: PAINT
Proper Shipping Name (IMDG)	: PAINT
Proper Shipping Name (IATA)	: PAINT
Proper Shipping Name (ADN)	: PAINT
Proper Shipping Name (RID)	: PAINT
Transport document description (ADR)	: UN 1263 PAINT, 3, II, (D/E)
Transport document description (IMDG)	: UN 1263 PAINT, 3, II
Transport document description (IATA)	: UN 1263 PAINT, 3, II
Transport document description (ADN)	: UN 1263 PAINT, 3, II
Transport document description (RID)	: UN 1263 PAINT, 3, II

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR)	: 3
Danger labels (ADR)	: 3



IMDG

Transport hazard class(es) (IMDG)	: 3
Danger labels (IMDG)	: 3



IATA

Transport hazard class(es) (IATA)	: 3
Danger labels (IATA)	: 3



ADN

Transport hazard class(es) (ADN)	: 3
Danger labels (ADN)	: 3



RID

Transport hazard class(es) (RID)	: 3
Danger labels (RID)	: 3



Paint-Riter™ Valve Action Paint Marker White, Yellow, Red, Blue, Green, Orange, Aluminum, Pink, Light Blue, Light Green, Brown, Gold

Safety Data Sheet

according to Regulation (EU) 2015/830

14.4. Packing group


Packing group (ADR)	: II
Packing group (IMDG)	: II
Packing group (IATA)	: II
Packing group (ADN)	: II
Packing group (RID)	: II

14.5. Environmental hazards

Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available

14.6. Special precautions for user

Overland transport

Classification code (ADR)	: F1
Special provisions (ADR)	: 163, 367, 640C, 650
Limited quantities (ADR)	: 5I
Excepted quantities (ADR)	: E2
Packing instructions (ADR)	: P001
Special packing provisions (ADR)	: PP1
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T4
Portable tank and bulk container special provisions (ADR)	: TP1, TP8, TP28
Tank code (ADR)	: L1.5BN
Vehicle for tank carriage	: FL
Transport category (ADR)	: 2
Special provisions for carriage - Operation (ADR)	: S2, S20
Hazard identification number (Kemler No.)	: 33
Orange plates	: 

Tunnel restriction code (ADR)	: D/E
EAC code	: •3YE

Transport by sea

Special provisions (IMDG)	: 163, 367
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E2
Packing instructions (IMDG)	: P001
Special packing provisions (IMDG)	: PP1
IBC packing instructions (IMDG)	: IBC02
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1, TP8, TP28
EmS-No. (Fire)	: F-E
EmS-No. (Spillage)	: S-E
Stowage category (IMDG)	: B

Air transport

PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y341
PCA limited quantity max net quantity (IATA)	: 1L
PCA packing instructions (IATA)	: 353
PCA max net quantity (IATA)	: 5L
CAO packing instructions (IATA)	: 364
CAO max net quantity (IATA)	: 60L
Special provisions (IATA)	: A3, A72, A192

Paint-Riter™ Valve Action Paint Marker White, Yellow, Red, Blue, Green, Orange, Aluminum, Pink, Light Blue, Light Green, Brown, Gold

Safety Data Sheet

according to Regulation (EU) 2015/830

ERG code (IATA)	: 3L
Inland waterway transport	
Classification code (ADN)	: F1
Special provisions (ADN)	: 163, 367, 640C, 650
Limited quantities (ADN)	: 5 L
Excepted quantities (ADN)	: E2
Equipment required (ADN)	: PP, EX, A
Ventilation (ADN)	: VE01
Number of blue cones/lights (ADN)	: 1

Rail transport

Classification code (RID)	: F1
Special provisions (RID)	: 163, 367, 640C, 650
Limited quantities (RID)	: 5L
Excepted quantities (RID)	: E2
Packing instructions (RID)	: P001
Special packing provisions (RID)	: PP1
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T4
Portable tank and bulk container special provisions (RID)	: TP1, TP8, TP28
Tank codes for RID tanks (RID)	: L1.5BN
Transport category (RID)	: 2
Colis express (express parcels) (RID)	: CE7
Hazard identification number (RID)	: 33

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3(a) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F	Paint-Riter™ Valve Action Paint Marker White, Yellow, Red, Blue, Green, Orange, Aluminum, Pink, Light Blue, Light Green, Brown, Gold ; 1-Methoxy-2-propanol ; Ethyl acetate ; Butyl acetate ; 2-methoxy-1-methylethyl acetate ; 2-methoxypropyl acetate ; 2-methylpropan-1-ol ; ethanol ; Isopropanol ; propyl acetate
3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	Paint-Riter™ Valve Action Paint Marker White, Yellow, Red, Blue, Green, Orange, Aluminum, Pink, Light Blue, Light Green, Brown, Gold ; 1-Methoxy-2-propanol ; Ethyl acetate ; Butyl acetate ; 2-methoxypropyl acetate ; 2-methylpropan-1-ol ; Isopropanol ; propyl acetate
30. Substances which are classified as reproductive toxicant category 1A or 1B in Part 3 of Annex VI to Regulation (EC) No 1272/2008 and are listed in Appendix 5 or Appendix 6, respectively.	2-methoxypropyl acetate
40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.	Paint-Riter™ Valve Action Paint Marker White, Yellow, Red, Blue, Green, Orange, Aluminum, Pink, Light Blue, Light Green, Brown, Gold ; 1-Methoxy-2-propanol ; Ethyl acetate ; Butyl acetate ; 2-methoxy-1-methylethyl acetate ; 2-methoxypropyl acetate ; 2-methylpropan-1-ol ; ethanol ; Isopropanol ; propyl acetate ; Aluminium

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Paint-Riter™ Valve Action Paint Marker White, Yellow, Red, Blue, Green, Orange, Aluminum, Pink, Light Blue, Light Green, Brown, Gold

Safety Data Sheet

according to Regulation (EU) 2015/830

VOC content : 50 – 60 %

15.1.2. National regulations

Germany

VwVwS Annex reference : WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1)

WGK remark : Classification based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen : 2-methoxypropyl acetate, ethanol are listed

SZW-lijst van mutagene stoffen : 2-methoxypropyl acetate is listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : ethanol is listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : ethanol is listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : 2-methoxypropyl acetate, ethanol are listed

Denmark

Class for fire hazard : Class I-1

Store unit : 1 liter

Classification remarks : F <Flam. Liq. 2>; Emergency management guidelines for the storage of flammable liquids must be followed

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product
Pregnant/breastfeeding women working with the product must not be in direct contact with the product
The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:

	ATE: Acute Toxicity Estimate
	CAS (Chemical Abstracts Service) number
	CLP: Classification, Labelling, Packaging.
	EC50: Environmental Concentration associated with a response by 50% of the test population.
	GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).
	LD50: Lethal Dose for 50% of the test population
	OSHA: Occupational Safety & Health Administration
	PBT: Persistent, Bioaccumulative, Toxic
	TWA: Time Weighted Average
	TSCA: Toxic Substances Control Act

Data sources : ESIS (European chemical Substances Information System; accessed at: <http://esis.jrc.ec.europa.eu/index.php?PGM=cla>. European Chemicals Agency (ECHA) C&L Inventory database. Accessed at <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>.
Kristen Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition. National Fire Protection Association. Fire Protection Guide to Hazardous Materials; 10th edition.
REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

Full text of H- and EUH-statements:

Aquatic Chronic 4	Hazardous to the aquatic environment — Chronic Hazard, Category 4
-------------------	---

Paint-Riter™ Valve Action Paint Marker White, Yellow, Red, Blue, Green, Orange, Aluminum, Pink, Light Blue, Light Green, Brown, Gold

Safety Data Sheet

according to Regulation (EU) 2015/830

Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Flam. Sol. 1	Flammable solids, Category 1
Repr. 1B	Reproductive toxicity, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1B	Skin sensitisation, category 1B
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
Water-react. 2	Substances and Mixtures which, in contact with water, emit flammable gases, Category 2
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H228	Flammable solid.
H261	In contact with water releases flammable gases.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H360D	May damage the unborn child.
H413	May cause long lasting harmful effects to aquatic life.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Flam. Liq. 2	H225	On basis of test data
Skin Sens. 1B	H317	Calculation method
STOT SE 3	H336	Calculation method

SDS Prepared by: The Redstone Group, dba SafeBridge Consultants, Inc.
 110 Polaris Pkwy
 Suite 200
 Westerville, OH USA 43082
 P: +1 (614) 923-7472
 www.redstonegrp.com

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

Safety Data Sheet

according to Regulation (EU) 2015/830

Issue date: 9/23/2020 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product form : Mixture
 Product name : Paint-Riter™ Valve Action Paint Marker Black, Purple
 Other means of identification : UFI
 Black: QWR6-C5NJ-6SK9-RT14
 Purple: G3S6-D51A-TSK9-2G68

1.2. Relevant identified uses of the substance or mixture and uses advised against**1.2.1. Relevant identified uses**

Main use category : Professional use
 Use of the substance/mixture : Marking.

1.2.2. Uses advised against

Restrictions on use : No additional information available

1.3. Details of the supplier of the safety data sheet

LA-CO Industries Europe S.A.S.

Parc Industriel de la Plaine de

l'Ain - Allée des Combes.

01150.BLYES.France.

Phone: +33 (0)4 74 46 23 23

Fax: +33 (0)4 74 46 23 29

E-mail: info@eu.laco.com

Web: http://www.markal.com

1.4. Emergency telephone number

Emergency number

: 24-hour emergency: CHEMTREC- U.S. : 1-800-424-9300 International: +1-703-527-3887;

全国应急中心 0532 8388 9090

EU Member State	Officieel adviesorgaan	Adres	Noodnummer
AUSTRIA	Vergiftungsinformationszentrale (Poisons Information Centre)	Allgemeines Krankenhaus Waehringer Geurtel 18-20 1090 Wien	+43 1 406 43 43
BELARUS	The Belarus Republican Poisons Centre	Kizhevatova str. 58 220115 Minsk	+375 (0)17 201 9158
BELGIUM	Centre Anti-Poisons/Antigifocentrum c/o Hôpital Central de la Base - Reine Astrid	Rue Bruyn 1 B -1120 Bruxelles/Brussel	+32 70 245 245
BULGARIA	Национален токсикологичен информационен център National Clinical Toxicology Centre, Emergency Medical Institute "Pirogov"	21 Totleben Boulevard 1606 SOFIA	+359 2 9154 409
CROATIA	Poisons Control Centre Institute of Medical Research & Occupational Health	Ksaverska Cesta 2 P.O. Box 291 HR-10000 Zagreb	+385 1 234 8342
CZECH REPUBLIC	Toxikologické informační středisko Clinic For Occupational Medicine, 1st Medical Faculty, Charles University	Na Bojišti 1 120 00 Praha 2	+42 2 2491 9293 +42 2 2491 5402
DENMARK	Giftlinjen Bispebjerg Hospital	Bispebjerg Bakke 23, 60, 1 DK-2400 København NV	+45 82 12 12 12 +45 35 31 55 55
ESTONIA	Mürgistusteabekeskus	Gonsiori 29 15027 Tallinn	+372 626 93 90
FINLAND	Myrkytystietokeskus	P.O.B 340 (Haartmaninkatu 4) HUS SF - 00029 Helsinki	+358 9 471 977
FRANCE	ORFILA		+33 1 45 42 59 59
GERMANY	Berliner Betrieb für Zentrale Gesundheitliche Aufgaben	Oranienburger Strasse 285 13437 Berlin	+49 30 19240
GERMANY	Informations und Beratungszentrum für Vergiftungsfälle	Kirrberger Straße, Gebäude 9 D-66421 Homburg/Saar	+49 6841 19240
GERMANY	Beratungstelle bei Vergiftungen, Klinische Toxikologie und Beratungsstelle bei Vergiftungen	Langenbeckstrasse 1 55131 Mainz	+49 6131 19240
GREECE	Poisons Information Centre	11527 Athens	+30 10 779 3777

Paint-Riter™ Valve Action Paint Marker Black, Purple

Safety Data Sheet

according to Regulation (EU) 2015/830

EU Member State	Officieel adviesorgaan	Adres	Noodnummer
HUNGARY	Országos Kémiai Biztonsági Intézet (National Institute of Chemical Safety) Egészségügyi Toxikológiai Tájékoztató Szolgálat (Health Toxicological Information Service)	1437 Budapest PO Box 839 1097 Budapest, Nagyvárad tér 2	+36 80 20 11 99
ICELAND	Eitrunarmiðstöðin	Eitrunarmiðstöðin 108 Reykjavík	+354 543 22 22
IRELAND	National Poisons Information Centre	Beaumont Hospital PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2166
LATVIA	Valsts Toksikoloģijas centra Saindēšanās un zāļu informācijas centrs	2 Hipocrate Street LV 1038 Riga	+371 67 04 24 73
LITHUANIA	Apsinuodijimų kontrolės ir informacijos biuras	Siltnamiu 29 2043 Vilnius	+370 5 236 20 52/+370 687 53 378
MALTA	Medicines & Poisons Info Office	Mater Dei Hospital, Msida MSD 2090 Malta	25450000
NETHERLANDS	Nationaal Vergiftigingen Informatie Centrum National Institute for Public Health and the Environment, NB this service is only available to health professionals	Huispostnummer B.00.118, PO Box 85500 3508 GA Utrecht	+31 30 274 88 88
PORTUGAL	Centro de Informação Antivenenos Instituto Nacional de Emergência Médica (INEM)	Rua Almirante Barroso, 36 1000-013 Lisboa	808 250 143 (for use only in Portugal), +351 21 330 3284
ROMANIA	Biroul pentru Regulamentul Sanitar International si Informare Toxicologica	Str. Dr. Leonte Anastasievici Nr.1-3, Sector 5 50463 Bucuresti	+40 21 318 36 06
SLOVAKIA	Národné toxikologické informačné centrum University Hospital Bratislava	Limbová 5 833 05 Bratislava	+421 2 54 77 4 166
SPAIN	Servicio de Información Toxicológica Instituto Nacional de Toxicología, Departamento de Madrid	Calle Luis Cabrera 9 E-28002 Madrid	+34 91 562 04 20
SWEDEN	Giftinformationscentralen Swedish Poisons Information Centre, Karolinska Hospital	Box 60 500 SE-171 76 Stockholm	+46 8 33 12 31 (International) 112 (National)
SWITZERLAND	Centre Suisse d'Information Toxicologique	Freiestrasse 16 Postfach CH-8028 Zurich	+41 44 251 51 51 (International) 145 (National)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, Category 2	H225
Serious eye damage/eye irritation, Category 2	H319
Skin sensitisation, category 1B	H317
Specific target organ toxicity — Single exposure, Category 3, Narcosis	H336
Full text of H statements : see section 16	

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS02

GHS07

Signal word (CLP)

: Danger

Hazardous ingredients

: 1-Methoxy-2-propanol; Rosin, fumarated, polymer with ethylene glycol and pentaerythritol

Hazard statements (CLP)

: H225 - Highly flammable liquid and vapour.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H336 - May cause drowsiness or dizziness.

Precautionary statements (CLP)

: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
No smoking.
P233 - Keep container tightly closed.
P240 - Ground and bond container and receiving equipment.
P241 - Use explosion-proof electrical/ventilating/lighting equipment.
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 - Wash hands, forearms and face thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.

Paint-Riter™ Valve Action Paint Marker Black, Purple

Safety Data Sheet

according to Regulation (EU) 2015/830

P272 - Contaminated work clothing should not be allowed out of the workplace.
P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P302+P352 - IF ON SKIN: Wash with plenty of water.
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 - Call a POISON CENTRE or doctor if you feel unwell.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P370+P378 - In case of fire: Use media other than water to extinguish.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P403+P235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

PBT: not yet assessed

vPvB: not yet assessed

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
1-Methoxy-2-propanol	(CAS-No.) 107-98-2 (EC-No.) 203-539-1 (EC Index-No.) 603-064-00-3	30 - 60	Flam. Liq. 3, H226 STOT SE 3, H336
ethanol	(CAS-No.) 64-17-5 (EC-No.) 200-578-6 (EC Index-No.) 603-002-00-5	10 - 25	Flam. Liq. 2, H225
Isopropanol	(CAS-No.) 67-63-0 (EC-No.) 200-661-7 (EC Index-No.) 603-117-00-0	1 - 10	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Rosin, fumarated, polymer with ethylene glycol and pentaerythritol	(CAS-No.) 68152-57-8 (EC-No.) *614-317-2	3 - 7	Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 4, H413
Carbon black	(CAS-No.) 1333-86-4 (EC-No.) 215-609-9	0 - 2	Not classified
2-methoxy-1-methylethyl acetate	(CAS-No.) 108-65-6 (EC-No.) 203-603-9 (EC Index-No.) 607-195-00-7	0 - 2	Flam. Liq. 3, H226
propyl acetate (Note C)	(CAS-No.) 109-60-4 (EC-No.) 203-686-1 (EC Index-No.) 607-024-00-6	0.5 - 1.5	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Ethyl acetate	(CAS-No.) 141-78-6 (EC-No.) 205-500-4 (EC Index-No.) 607-022-00-5	0.5 - 1.5	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Titanium dioxide	(CAS-No.) 13463-67-7 (EC-No.) 236-675-5	0 - 0.5	Not classified
(2-Methoxymethylethoxy)-propanol	(CAS-No.) 34590-94-8 (EC-No.) 252-104-2	0.1 - 0.5	Not classified
Butyl acetate	(CAS-No.) 123-86-4 (EC-No.) 204-658-1 (EC Index-No.) 607-025-00-1	0 - 0.5	Flam. Liq. 3, H226 STOT SE 3, H336
Silicon dioxide (amorphous)	(CAS-No.) 7631-86-9 (EC-No.) 231-545-4	<0.1	Not classified
Aluminum hydroxide	(CAS-No.) 21645-51-2 (EC-No.) 244-492-7	<0.1	Not classified

Paint-Riter™ Valve Action Paint Marker Black, Purple

Safety Data Sheet

according to Regulation (EU) 2015/830

2-methoxypropyl acetate	(CAS-No.) 70657-70-4 (EC-No.) 274-724-2 (EC Index-No.) 607-251-00-0	<0.1	Flam. Liq. 3, H226 Repr. 1B, H360D STOT SE 3, H335
Toluene	(CAS-No.) 108-88-3 (EC-No.) 203-625-9 (EC Index-No.) 601-021-00-3	<0.1	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412
Aluminum oxide	(CAS-No.) 1344-28-1 (EC-No.) 215-691-6	<0.1	Not classified
2-methylpropan-1-ol	(CAS-No.) 78-83-1 (EC-No.) 201-148-0 (EC Index-No.) 603-108-00-1	<0.1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336

Note C : Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
First-aid measures after skin contact	: Wash skin thoroughly with mild soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: In case of contact, immediately flush eyes with plenty of water.
First-aid measures after ingestion	: Do NOT induce vomiting. Get medical advice/attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation : May cause drowsiness or dizziness.

Symptoms/effects after skin contact : May cause an allergic skin reaction.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide. Dry chemical. Inert gas. Foam. Water spray. Water fog.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Highly flammable liquid and vapour. Burning produces irritating, toxic and noxious fumes. Flammable vapours may accumulate in the container. Heavier than air, vapours may travel long distances along ground, ignite and flash back to source.

Explosion hazard : Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.

Hazardous decomposition products in case of fire : Carbon oxides (CO, CO₂). Hydrocarbon.

5.3. Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire. Do not allow run-off from fire fighting to enter drains or water courses. Eliminate all ignition sources if safe to do so.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Use self-contained breathing apparatus. EN469.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking. Avoid all eye and skin contact and do not breathe vapour and mist.

6.1.1. For non-emergency personnel

Protective equipment : Refer to section 8.2.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Refer to section 8.2.

Emergency procedures : Stop leak if safe to do so. Ventilate area.

Paint-Riter™ Valve Action Paint Marker Black, Purple

Safety Data Sheet

according to Regulation (EU) 2015/830

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment

: Eliminate all ignition sources. Stop the flow of material, if this is without risk.

Methods for cleaning up

: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Take up in non-combustible absorbent material and shove into container for disposal.

6.4. Reference to other sections

Section 13: disposal information. Section 7: safe handling. Section 8: personal protective equipment.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed

: Handle empty containers with care because residual vapours are flammable.

Precautions for safe handling

: No open flames. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Avoid all eye and skin contact and do not breathe vapour and mist. Use only outdoors or in a well-ventilated area.

Hygiene measures

: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Keep container tightly closed. Keep away from open flames, hot surfaces and sources of ignition.

Incompatible products

: Strong oxidizers.

Incompatible materials

: Heat sources.

Heat and ignition sources

: Keep away from heat, sparks and flame.

Prohibitions on mixed storage

: Keep away from incompatible materials.

Storage area

: Store in dry, cool, well-ventilated area.

7.3. Specific end use(s)

Marking.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

1-Methoxy-2-propanol (107-98-2)

EU - Occupational Exposure Limits

Local name	1-Methoxypropanol-2
IOELV TWA (mg/m ³)	375 mg/m ³
IOELV TWA (ppm)	100 ppm
IOELV STEL (mg/m ³)	568 mg/m ³
IOELV STEL (ppm)	150 ppm
Notes	Skin

Austria - Occupational Exposure Limits

MAK [mg/m ³]	187 mg/m ³
MAK Daily average value (ppm)	50 ppm
MAK Short time value [mg/m ³]	187 mg/m ³
MAK Short time value [ppm]	50 ppm
Remark (AT)	(gemessen als Momentanwert), (H)

Belgium - Occupational Exposure Limits

Limit value [mg/m ³]	375 mg/m ³
Limit value [ppm]	100 ppm
Short time value [mg/m ³]	568 mg/m ³
Short time value [ppm]	150 ppm
Remark (BE)	D

Czech Republic - Occupational Exposure Limits

Local name	1-Methoxy-2-propanol
Expoziční limity (PEL) (mg/m ³)	270 mg/m ³
Expoziční limity (PEL) (ppm)	73.17 ppm
Expoziční limity (NPK-P) (mg/m ³)	550 mg/m ³

Paint-Riter™ Valve Action Paint Marker Black, Purple

Safety Data Sheet

according to Regulation (EU) 2015/830

1-Methoxy-2-propanol (107-98-2)	
Expoziční limity (NPK-P) (ppm)	149.05 ppm
Remark (CZ)	D
Denmark - Occupational Exposure Limits	
Local name	1-Methoxy-2-propanol (Propylenglycolmonomethylether)
Grænsevædi (8 timer) (mg/m ³)	185 mg/m ³
Grænsevædi (8 timer) (ppm)	50 ppm
Grænsevædi (STEL) (mg/m ³)	370 mg/m ³
Grænsevædi (STEL) (ppm)	100 ppm
Anmærkninger (DK)	E (betyder, at stoffet har en EF-grænseværdi)
Finland - Occupational Exposure Limits	
Local name	1-Metoksi-2-propanoli
HTP-arvo (8h) (mg/m ³)	370 mg/m ³
HTP-arvo (8h) (ppm)	100 ppm
HTP-arvo (15 min)	560 mg/m ³
HTP-arvo (15 min) (ppm)	150 ppm
Huomautus (FI)	iho
France - Occupational Exposure Limits	
Local name	Ether méthylique du propylène-glycol (1-Méthoxy-2-propanol)
VME [mg/m ³]	188 mg/m ³
VME [ppm]	50 ppm
VLE [mg/m ³]	375 mg/m ³
VLE [ppm]	100 ppm
Note (FR)	Peau
Germany - Occupational Exposure Limits (TRGS 900)	
TRGS 900 Local name	1-Methoxy-2-propanol
Occupational exposure limit value (mg/m ³)	370 mg/m ³
Occupational exposure limit value (ppm)	100 ppm
Limitation of exposure peaks (mg/m ³)	740 mg/m ³
Limitation of exposure peaks (ppm)	200 ppm
TRGS 900 Remark	DFG,EU,Y
Hungary - Occupational Exposure Limits	
Local name	1-METOXIPROPÁN-2-OL
AK-érték	375 mg/m ³
CK-érték	568 mg/m ³
Megjegyzések (HU)	b; EU1
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m ³)	375 mg/m ³
OEL (8 hours ref) (ppm)	100 ppm
OEL (15 min ref) (mg/m ³)	568 mg/m ³
OEL (15 min ref) (ppm)	150 ppm
Italy - Occupational Exposure Limits	
Local name	Metossipropanolo-2,1-
OEL TWA (mg/m ³)	375 mg/m ³
OEL TWA (ppm)	100 ppm

Paint-Riter™ Valve Action Paint Marker Black, Purple

Safety Data Sheet

according to Regulation (EU) 2015/830

1-Methoxy-2-propanol (107-98-2)	
OEL STEL (mg/m ³)	568 mg/m ³
OEL STEL (ppm)	150 ppm
Latvia - Occupational Exposure Limits	
Local name	1-Metoksi-2-propanols (propilēnglikola monometilēteris, monopropilēnglikolmetilēteris)
OEL TWA (mg/m ³)	375 mg/m ³
OEL TWA (ppm)	100 ppm
OEL STEL (mg/m ³)	568 mg/m ³
OEL STEL (ppm)	150 ppm
Lithuania - Occupational Exposure Limits	
IPRV (mg/m ³)	190 mg/m ³
IPRV (ppm)	50 ppm
TPRV (mg/m ³)	300 mg/m ³
TPRV (ppm)	75 ppm
Netherlands - Occupational Exposure Limits	
Local name	1-Methoxy-2-propanol
Grenswaarde TGG 8H (mg/m ³)	375 mg/m ³
Grenswaarde TGG 15MIN (mg/m ³)	563 mg/m ³
Remark (MAC)	(H)
Poland - Occupational Exposure Limits	
Local name	1-Metoksypropan-2-ol
NDS (mg/m ³)	180 mg/m ³
NDSCh (mg/m ³)	360 mg/m ³
Portugal - Occupational Exposure Limits	
Local name	1-Metoxi-2-propanol (PGME)
OEL TWA (ppm)	50 ppm
OEL STEL (ppm)	100 ppm
Slovakia - Occupational Exposure Limits	
Local name	1-Metoxypropán-2-ol (propylēnglykolmonometyléter)
NPHV (priemerná) (mg/m ³)	375 mg/m ³
NPHV (priemerná) (ppm)	100 ppm
OEL STEL (mg/m ³)	568 mg/m ³
OEL STEL (ppm)	150 ppm
Upozornenie (SK)	(K)
Slovenia - Occupational Exposure Limits	
Local name	1-metoksi-2-propanol (propilēnglikolmonometil eter)
OEL TWA (mg/m ³)	375 mg/m ³
OEL TWA (ppm)	100 ppm
OEL STEL (mg/m ³)	562.5 mg/m ³
OEL STEL (ppm)	150 ppm
Spain - Occupational Exposure Limits	
Local name	1-Metoxipropan-2-ol (Éter 1-metilico de propilenglicol)
VLA-ED (mg/m ³)	375 mg/m ³
VLA-ED (ppm)	100 ppm
VLA-EC (mg/m ³)	568 mg/m ³

Paint-Riter™ Valve Action Paint Marker Black, Purple

Safety Data Sheet

according to Regulation (EU) 2015/830

1-Methoxy-2-propanol (107-98-2)	
VLA-EC (ppm)	150 ppm
Notes	vía dérmica, VLI
Sweden - Occupational Exposure Limits	
Local name	1-Metoxi-2-propanol
nivågränsvärde (NVG) (mg/m ³)	190 mg/m ³
nivågränsvärde (NVG) (ppm)	50 ppm
kortidsvärde (KTV) (mg/m ³)	300 mg/m ³
kortidsvärde (KTV) (ppm)	75 ppm
Anmärkning (SE)	H
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m ³)	375 mg/m ³
WEL TWA (ppm)	100 ppm
WEL STEL (mg/m ³)	560 mg/m ³
WEL STEL [ppm]	150 ppm
Norway - Occupational Exposure Limits	
Local name	1-metoksy-2-propanol (Propylenglykolmonometyleter)
Grenseverdier (AN) (mg/m ³)	180 mg/m ³
Grenseverdier (AN) (ppm)	50 ppm
Merknader (NO)	H
Switzerland - Occupational Exposure Limits	
VME [mg/m ³]	360 mg/m ³
MAK (ppm)	100 ppm 20 ppm (urina; fine dell'esposizione / del turno)
KZGW (mg/m ³)	720 mg/m ³
KZGW (ppm)	200 ppm

Ethyl acetate (141-78-6)	
EU - Occupational Exposure Limits	
Local name	Ethyl acetate
IOELV TWA (mg/m ³)	734 mg/m ³
IOELV TWA (ppm)	200 ppm
IOELV STEL (mg/m ³)	1468 mg/m ³
IOELV STEL (ppm)	400 ppm
Regulatory reference	COMMISSION DIRECTIVE (EU) 2017/164
Austria - Occupational Exposure Limits	
MAK [mg/m ³]	1050 mg/m ³
MAK Daily average value (ppm)	300 ppm
MAK Short time value [mg/m ³]	2100 mg/m ³ max. 8x5 min./Schicht (gemessen als Momentanwert)
MAK Short time value [ppm]	600 ppm max. 8x5 min./Schicht (gemessen als Momentanwert)
Belgium - Occupational Exposure Limits	
Limit value [mg/m ³]	1461 mg/m ³
Limit value [ppm]	400 ppm
Czech Republic - Occupational Exposure Limits	
Local name	Ethylacetát
Expoziční limity (PEL) (mg/m ³)	700 mg/m ³

Paint-Riter™ Valve Action Paint Marker Black, Purple

Safety Data Sheet

according to Regulation (EU) 2015/830

Ethyl acetate (141-78-6)	
Expoziční limity (PEL) (ppm)	191 ppm
Expoziční limity (NPK-P) (mg/m ³)	900 mg/m ³
Expoziční limity (NPK-P) (ppm)	246 ppm
Remark (CZ)	I - dráždí sliznice (oči, dýchací cesty), respektive kůži.
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 41/2020 Sb.)
Denmark - Occupational Exposure Limits	
Local name	Ethylacetat (Eddikesyreethylester)
Grænsevædi (8 timer) (mg/m ³)	540 mg/m ³
Grænsevædi (8 timer) (ppm)	150 ppm
Grænsevædi (STEL) (mg/m ³)	1080 mg/m ³
Grænsevædi (STEL) (ppm)	300 ppm
Anmærkninger (DK)	E (betyder, at stoffet har en EF-grænseværdi)
Regulatory reference	BEK nr 1458 af 13/12/2019
Finland - Occupational Exposure Limits	
Local name	Etyyliasettaatti
HTP-arvo (8h) (mg/m ³)	730 mg/m ³
HTP-arvo (8h) (ppm)	200 ppm
HTP-arvo (15 min)	1470 mg/m ³
HTP-arvo (15 min) (ppm)	400 ppm
Regulatory reference	HTP-ARVOT 2018 (Sosiaali- ja terveystieteiden ministeriö)
France - Occupational Exposure Limits	
Local name	Acétate d'éthyle
VME [mg/m ³]	734 mg/m ³
VME [ppm]	200 ppm
VLE [mg/m ³]	1468 mg/m ³
VLE [ppm]	400 ppm
Note (FR)	Valeurs réglementaires contraignantes
Regulatory reference	Article R4412-149 du Code du travail (réf.: INRS ED 984, 2016; Décret n° 2019-1487)
Germany - Occupational Exposure Limits (TRGS 900)	
TRGS 900 Local name	Ethylacetat
Occupational exposure limit value (mg/m ³)	730 mg/m ³
Occupational exposure limit value (ppm)	200 ppm
Peak exposure limitation factor	2(I)
TRGS 900 Remark	DFG;EU;Y
TRGS 900 Regulatory reference	TRGS900
Hungary - Occupational Exposure Limits	
Local name	ETIL-ACETÁT
AK-érték	734 mg/m ³
CK-érték	1468 mg/m ³
Megjegyzések (HU)	i (ingerlő anyag, amely izgatja a bőrt, nyálkahártyát, szemet vagy mindhármát), sz (Túlérzékenységet okozó (szenzibilizáló) tulajdonságú anyag. Az anyagra érzékeny egyéneken „túlérzékenységen” alapuló bőr-, légzőrendszeri, esetleg más szervet/szervrendszert károsító megbetegedést okozhat); EU4 (2017/164 EU irányelvben közölt érték); N (Irritáló anyagok, egyszerű fojtógázok, csekély egészségkárosító hatással bíró anyagok)
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről

Paint-Riter™ Valve Action Paint Marker Black, Purple

Safety Data Sheet

according to Regulation (EU) 2015/830

Ethyl acetate (141-78-6)	
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (ppm)	200 ppm
OEL (15 min ref) (ppm)	400 ppm
Latvia - Occupational Exposure Limits	
Local name	Etiķskābes etilesteris (etilacetāts)
OEL TWA (mg/m ³)	200 mg/m ³ 54 mg/m ³ 1468 mg/m ³ 400 mg/m ³
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2018. gada 10. jūlijā noteikumiem Nr. 407)
Lithuania - Occupational Exposure Limits	
IPRV (mg/m ³)	500 mg/m ³
IPRV (ppm)	150 ppm
NRV (mg/m ³)	1100 mg/m ³
NRV (ppm)	300 ppm
Netherlands - Occupational Exposure Limits	
Local name	Ethylacetaat
Grenswaarde TGG 8H (mg/m ³)	734 mg/m ³
Grenswaarde TGG 15MIN (mg/m ³)	1468 mg/m ³
Regulatory reference	Arbeidsomstandighedenregeling 2020
Poland - Occupational Exposure Limits	
Local name	Octan etylu
NDS (mg/m ³)	734 mg/m ³
NDSCh (mg/m ³)	1468 mg/m ³
Regulatory reference	Dz. U. 2018 poz. 1286
Portugal - Occupational Exposure Limits	
Local name	Acetato de etilo
OEL TWA (ppm)	400 ppm
Regulatory reference	Norma Portuguesa NP 1796:2014
Slovakia - Occupational Exposure Limits	
Local name	Etylacetát (octan etylový)
NPHV (priemerná) (mg/m ³)	734 mg/m ³
NPHV (priemerná) (ppm)	200 ppm
OEL STEL (mg/m ³)	1468 mg/m ³
OEL STEL (ppm)	400 ppm
Regulatory reference	Nariadenie vlády č. 33/2018 Z. z.
Slovenia - Occupational Exposure Limits	
Local name	etilacetat
OEL TWA (mg/m ³)	734 mg/m ³
OEL TWA (ppm)	200 ppm
OEL STEL (mg/m ³)	1468 mg/m ³
OEL STEL (ppm)	400 ppm
Remark (SI)	Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti), EU
Regulatory reference	Uradni list RS, št. 78/2019 z dne 20.12.2019

Paint-Riter™ Valve Action Paint Marker Black, Purple

Safety Data Sheet

according to Regulation (EU) 2015/830

Ethyl acetate (141-78-6)	
Spain - Occupational Exposure Limits	
Local name	Acetato de etilo
VLA-ED (mg/m ³)	734 mg/m ³
VLA-ED (ppm)	200 ppm
VLA-EC (mg/m ³)	1468 mg/m ³
VLA-EC (ppm)	400 ppm
Notes	VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo).
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
Sweden - Occupational Exposure Limits	
Local name	Etylacetat
nivågränsvärde (NVG) (mg/m ³)	550 mg/m ³
nivågränsvärde (NVG) (ppm)	150 ppm
kortidsvärde (KTV) (mg/m ³)	1100 mg/m ³
kortidsvärde (KTV) (ppm)	300 ppm
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m ³)	730 mg/m ³
WEL TWA (ppm)	200 ppm
WEL STEL (mg/m ³)	1460 mg/m ³
WEL STEL [ppm]	400 ppm
Norway - Occupational Exposure Limits	
Local name	Etylacetat
Grenseverdier (AN) (mg/m ³)	734 mg/m ³
Grenseverdier (AN) (ppm)	200 ppm
Grenseverdier (Korttidsverdi) (mg/m ³)	1468 mg/m ³
Grenseverdier (Korttidsverdi) (ppm)	400 ppm
Merknader (NO)	E: EU har en veiledende grenseverdi for stoffet.
Regulatory reference	FOR-2020-04-06-695
Switzerland - Occupational Exposure Limits	
VME [mg/m ³]	1400 mg/m ³
MAK (ppm)	400 ppm
KZGW (mg/m ³)	2800 mg/m ³ max. 4x15 min./turno
KZGW (ppm)	800 ppm max. 4x15 min./turno

Butyl acetate (123-86-4)	
EU - Occupational Exposure Limits	
Local name	n-Butyl acetate
IOELV TWA (mg/m ³)	241 mg/m ³
IOELV TWA (ppm)	50 ppm
IOELV STEL (mg/m ³)	723 mg/m ³
IOELV STEL (ppm)	150 ppm
Regulatory reference	COMMISSION DIRECTIVE (EU) 2019/1831
Austria - Occupational Exposure Limits	
MAK [mg/m ³]	480 mg/m ³
MAK Daily average value (ppm)	100 ppm

Paint-Riter™ Valve Action Paint Marker Black, Purple

Safety Data Sheet

according to Regulation (EU) 2015/830

Butyl acetate (123-86-4)	
MAK Short time value [mg/m ³]	480 mg/m ³
MAK Short time value [ppm]	100 ppm
Remark (AT)	(gemessen als Momentanwert)
Belgium - Occupational Exposure Limits	
Limit value [mg/m ³]	723 mg/m ³
Limit value [ppm]	150 ppm
Short time value [mg/m ³]	964 mg/m ³
Short time value [ppm]	200 ppm
Denmark - Occupational Exposure Limits	
Local name	n-Butylacetat
Grænsevædi (8 timer) (mg/m ³)	710 mg/m ³
Grænsevædi (8 timer) (ppm)	150 ppm
Grænsevædi (STEL) (mg/m ³)	1420 mg/m ³
Grænsevædi (STEL) (ppm)	300 ppm
Regulatory reference	BEK nr 1458 af 13/12/2019
Finland - Occupational Exposure Limits	
Local name	n-Butyylisetaatti
HTP-arvo (8h) (mg/m ³)	720 mg/m ³
HTP-arvo (8h) (ppm)	150 ppm
HTP-arvo (15 min)	960 mg/m ³
HTP-arvo (15 min) (ppm)	200 ppm
Regulatory reference	HTP-ARVOT 2018 (Sosiaali- ja terveystieteiden ministeriö)
France - Occupational Exposure Limits	
Local name	Acétate de n-butyle
VME [mg/m ³]	710 mg/m ³
VME [ppm]	150 ppm
VLE [mg/m ³]	940 mg/m ³
VLE [ppm]	200 ppm
Note (FR)	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Germany - Occupational Exposure Limits (TRGS 900)	
TRGS 900 Local name	n-Butylacetat
Occupational exposure limit value (mg/m ³)	300 mg/m ³
Occupational exposure limit value (ppm)	62 ppm
Peak exposure limitation factor	2(l)
TRGS 900 Remark	AGS;Y
TRGS 900 Regulatory reference	TRGS900
Hungary - Occupational Exposure Limits	
Local name	n-BUTIL-ACETÁT
AK-érték	241 mg/m ³
CK-érték	723 mg/m ³
Megjegyzések (HU)	i (ingerlő anyag, amely izgatja a bőrt, nyálkahártyát, szemet vagy mindhármát), sz (Túlérzékenységet okozó (szenzibilizáló) tulajdonságú anyag. Az anyagra érzékeny egyéneken „túlérzékenységen” alapuló bőr-, légzőrendszeri, esetleg más szervet/szervrendszert károsító megbetegedést okozhat); N (Irritáló anyagok, egyszerű fojtógázok, csekély egészségkárosító hatással bíró anyagok)

Paint-Riter™ Valve Action Paint Marker Black, Purple

Safety Data Sheet

according to Regulation (EU) 2015/830

Butyl acetate (123-86-4)	
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m ³)	710 mg/m ³
OEL (8 hours ref) (ppm)	150 ppm
OEL (15 min ref) (mg/m ³)	950 mg/m ³
OEL (15 min ref) (ppm)	200 ppm
Latvia - Occupational Exposure Limits	
Local name	Etiķskābes butilesteris (n-butilacetāts)
OEL TWA (mg/m ³)	200 mg/m ³
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2011. gada 1. februārī noteikumiem Nr. 92)
Lithuania - Occupational Exposure Limits	
IPRV (mg/m ³)	500 mg/m ³
IPRV (ppm)	100 ppm
TPRV (mg/m ³)	700 mg/m ³
TPRV (ppm)	150 ppm
Poland - Occupational Exposure Limits	
Local name	Octan n-butylu (n-butylu octan)
NDS (mg/m ³)	240 mg/m ³
NDSCh (mg/m ³)	720 mg/m ³
Regulatory reference	Dz. U. 2018 poz. 1286
Portugal - Occupational Exposure Limits	
Local name	Acetato de n-butilo
OEL TWA (ppm)	150 ppm
OEL STEL (ppm)	200 ppm
Regulatory reference	Norma Portuguesa NP 1796:2014
Slovakia - Occupational Exposure Limits	
Local name	Butylacetáty: n-Butylacetát
NPHV (priemerná) (mg/m ³)	500 mg/m ³
NPHV (priemerná) (ppm)	100 ppm
OEL STEL (mg/m ³)	700 mg/m ³
OEL STEL (ppm)	150 ppm
Regulatory reference	Nariadenie vlády č. 33/2018 Z. z.
Slovenia - Occupational Exposure Limits	
Local name	n-butilacetat
OEL TWA (mg/m ³)	300 mg/m ³
OEL TWA (ppm)	62 ppm
OEL STEL (mg/m ³)	600 mg/m ³
OEL STEL (ppm)	124 ppm
Remark (SI)	Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti)
Regulatory reference	Uradni list RS, št. 78/2019 z dne 20.12.2019
Spain - Occupational Exposure Limits	
Local name	Acetato de n-butilo
VLA-ED (mg/m ³)	724 mg/m ³

Paint-Riter™ Valve Action Paint Marker Black, Purple

Safety Data Sheet

according to Regulation (EU) 2015/830

Butyl acetate (123-86-4)	
VLA-ED (ppm)	150 ppm
VLA-EC (mg/m ³)	965 mg/m ³
VLA-EC (ppm)	200 ppm
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
Sweden - Occupational Exposure Limits	
Local name	n-Butylacetat
nivågränsvärde (NVG) (mg/m ³)	500 mg/m ³
nivågränsvärde (NVG) (ppm)	100 ppm
kortidsvärde (KTV) (mg/m ³)	700 mg/m ³
kortidsvärde (KTV) (ppm)	150 ppm
Anmärkning (SE)	V (Vägledande korttidsgränsvärde ska användas som ett rekommenderat högsta värde som inte bör överskridas)
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m ³)	724 mg/m ³
WEL TWA (ppm)	150 ppm
WEL STEL (mg/m ³)	966 mg/m ³
WEL STEL [ppm]	200 ppm
Norway - Occupational Exposure Limits	
Grænseverdier (AN) (mg/m ³)	355 mg/m ³
Grænseverdier (AN) (ppm)	75 ppm
Switzerland - Occupational Exposure Limits	
VME [mg/m ³]	480 mg/m ³
MAK (ppm)	100 ppm
KZGW (mg/m ³)	960 mg/m ³ max. 8x5 min./turno
KZGW (ppm)	200 ppm max. 8x5 min./turno
2-methoxy-1-methylethyl acetate (108-65-6)	
Denmark - Occupational Exposure Limits	
Grænsevædi (STEL) (mg/m ³)	550 mg/m ³
Grænsevædi (STEL) (ppm)	100 ppm
Finland - Occupational Exposure Limits	
Huomautus (FI)	iho
France - Occupational Exposure Limits	
Note (FR)	Peau
Germany - Occupational Exposure Limits (TRGS 900)	
Limitation of exposure peaks (mg/m ³)	270 mg/m ³
Limitation of exposure peaks (ppm)	50 ppm
Slovakia - Occupational Exposure Limits	
NPHV (priemerná) (mg/m ³)	275 mg/m ³
NPHV (priemerná) (ppm)	50 ppm
Upozornenie (SK)	(K)
Spain - Occupational Exposure Limits	
VLA-ED (mg/m ³)	275 mg/m ³
VLA-ED (ppm)	50 ppm

Paint-Riter™ Valve Action Paint Marker Black, Purple

Safety Data Sheet

according to Regulation (EU) 2015/830

2-methoxy-1-methylethyl acetate (108-65-6)	
VLA-EC (mg/m ³)	550 mg/m ³
VLA-EC (ppm)	100 ppm
Notes	VLI
Sweden - Occupational Exposure Limits	
Anmärkning (SE)	H

2-methoxypropyl acetate (70657-70-4)	
Czech Republic - Occupational Exposure Limits	
Remark (CZ)	D
Denmark - Occupational Exposure Limits	
Grænsevædi (STEL) (mg/m ³)	220 mg/m ³
Grænsevædi (STEL) (ppm)	40 ppm
Germany - Occupational Exposure Limits (TRGS 900)	
Limitation of exposure peaks (mg/m ³)	224 mg/m ³
Limitation of exposure peaks (ppm)	40 ppm
Slovakia - Occupational Exposure Limits	
NPHV (priemerná) (mg/m ³)	110 mg/m ³
NPHV (priemerná) (ppm)	20 ppm
Upozornenie (SK)	(K)
Spain - Occupational Exposure Limits	
VLA-ED (mg/m ³)	28 mg/m ³
VLA-ED (ppm)	5 ppm
VLA-EC (mg/m ³)	220 mg/m ³
VLA-EC (ppm)	40 ppm
Notes	TR1B,r

2-methylpropan-1-ol (78-83-1)	
Czech Republic - Occupational Exposure Limits	
Local name	Butanol (všechny isomery)
Expoziční limity (PEL) (mg/m ³)	300 mg/m ³
Expoziční limity (PEL) (ppm)	100 ppm
Expoziční limity (NPK-P) (mg/m ³)	600 mg/m ³
Expoziční limity (NPK-P) (ppm)	200 ppm
Remark (CZ)	D
Denmark - Occupational Exposure Limits	
Local name	Isobutylalkohol
Grænsevædi (8 timer) (mg/m ³)	150 mg/m ³
Grænsevædi (8 timer) (ppm)	50 ppm
Anmærkninger (DK)	L (markerer, at grænseværdien er en loftværdi, som ikke på noget tidspunkt må overskrides); H (betyder, at stoffet kan optages gennem huden)
Finland - Occupational Exposure Limits	
Huomautus (FI)	iho
France - Occupational Exposure Limits	
Local name	Alcool isobutylique
VME [mg/m ³]	150 mg/m ³

Paint-Riter™ Valve Action Paint Marker Black, Purple

Safety Data Sheet

according to Regulation (EU) 2015/830

2-methylpropan-1-ol (78-83-1)	
VME [ppm]	50 ppm
Note (FR)	Valeurs recommandées/admises
Germany - Occupational Exposure Limits (TRGS 900)	
TRGS 900 Local name	2-Methylpropan-1-ol
Occupational exposure limit value (mg/m ³)	310 mg/m ³
Occupational exposure limit value (ppm)	100 ppm
Limitation of exposure peaks (mg/m ³)	310 mg/m ³
Limitation of exposure peaks (ppm)	100 ppm
TRGS 900 Remark	DFG, Y
Poland - Occupational Exposure Limits	
Local name	2-Metylopropan-1-ol (izobutylowy alkohol)
NDS (mg/m ³)	100 mg/m ³
NDSch (mg/m ³)	200 mg/m ³
Portugal - Occupational Exposure Limits	
Local name	Isobutanol (Álcool isobutílico)
OEL TWA (ppm)	50 ppm
Slovakia - Occupational Exposure Limits	
Local name	izo-Butanol
NPHV (priemerná) (mg/m ³)	310 mg/m ³
NPHV (priemerná) (ppm)	100 ppm
Slovenia - Occupational Exposure Limits	
Local name	2-metilpropan-1-ol (izobutanol)
OEL TWA (mg/m ³)	310 mg/m ³
OEL TWA (ppm)	100 ppm
OEL STEL (mg/m ³)	310 mg/m ³
OEL STEL (ppm)	100 ppm
Spain - Occupational Exposure Limits	
Local name	Isobutanol (Alcohol isobutílico)
VLA-ED (mg/m ³)	154 mg/m ³
VLA-ED (ppm)	50 ppm
Sweden - Occupational Exposure Limits	
Local name	iso-Butanol
nivågränsvärde (NVG) (mg/m ³)	150 mg/m ³
nivågränsvärde (NVG) (ppm)	50 ppm
kortidsvärde (KTV) (mg/m ³)	250 mg/m ³
kortidsvärde (KTV) (ppm)	75 ppm
Anmärkning (SE)	H
Norway - Occupational Exposure Limits	
Local name	2-metylpropan-1-ol
Grenseverdier (AN) (mg/m ³)	75 mg/m ³
Grenseverdier (AN) (ppm)	25 ppm
Grenseverdier (Takverdi) (mg/m ³)	75 mg/m ³
Grenseverdier (Takverdi) (ppm)	25 ppm
Merknader (NO)	H (Kjemikalier som kan tas opp gjennom huden); T (Takverdi er en øyeblikksverdi som angir maksimalkonsentrasjon av et kjemikalie i pustesonen som ikke skal overskrides)

Paint-Riter™ Valve Action Paint Marker Black, Purple

Safety Data Sheet

according to Regulation (EU) 2015/830

Carbon black (1333-86-4)	
Belgium - Occupational Exposure Limits	
Limit value [mg/m ³]	3.5 mg/m ³
Denmark - Occupational Exposure Limits	
Local name	Carbon black
Grænsevædi (8 timer) (mg/m ³)	3.5 mg/m ³
Anmærkninger (DK)	K (betyder, at stoffet anses for at kunne være kræftfremkaldende)
Regulatory reference	BEK nr 1458 af 13/12/2019
Finland - Occupational Exposure Limits	
Local name	Nokimusta
HTP-arvo (8h) (mg/m ³)	3.5 mg/m ³
HTP-arvo (15 min)	7 mg/m ³
Regulatory reference	HTP-ARVOT 2018 (Sosiaali- ja terveystieteiden ministeriö)
France - Occupational Exposure Limits	
Local name	Noir de carbone
VME [mg/m ³]	3.5 mg/m ³
Note (FR)	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m ³)	3.5 mg/m ³
OEL (15 min ref) (mg/m ³)	7 mg/m ³
Poland - Occupational Exposure Limits	
Local name	Sadza techniczna
NDS (mg/m ³)	4 mg/m ³ frakcja wdychalna
Remark (PL)	Frakcja wdychalna – frakcja aerozolu wnikaćca przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia.
Regulatory reference	Dz. U. 2018 poz. 1286
Portugal - Occupational Exposure Limits	
Local name	Carbono, preto (Negro de fumo)
OEL TWA (mg/m ³)	3 mg/m ³ I (Fração inalável)
Regulatory reference	Norma Portuguesa NP 1796:2014
Spain - Occupational Exposure Limits	
Local name	Negro de humo
VLA-ED (mg/m ³)	3.5 mg/m ³
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
Sweden - Occupational Exposure Limits	
Local name	Kimrök
nivågränsvärde (NVG) (mg/m ³)	3 mg/m ³
Anmärkning (SE)	2 (Med totaldamm menas de partiklar (aerosoler) som fastnar på ett filter i den provtagare som beskrivs i Metodserien, Provtagnings av totaldamm och respirabelt damm, Metod nr 1010, Arbetarskyddsstyrelsen, numera Arbetsmiljöverket. Filterdiametern är normalt 37 mm, men kan även vara 25 mm. Trots sitt namn provtas inte den totala mängden luftburna partiklar med denna metod)
United Kingdom - Occupational Exposure Limits	
Local name	Carbon black
WEL TWA (mg/m ³)	3.5 mg/m ³
WEL STEL (mg/m ³)	7 mg/m ³

Paint-Riter™ Valve Action Paint Marker Black, Purple

Safety Data Sheet

according to Regulation (EU) 2015/830

Carbon black (1333-86-4)	
Norway - Occupational Exposure Limits	
Local name	Carbon Black (lampesot)
Grænseverdi (AN) (mg/m ³)	3.5 mg/m ³
Regulatory reference	FOR-2020-04-06-695
(2-Methoxymethylethoxy)-propanol (34590-94-8)	
EU - Occupational Exposure Limits	
Local name	(2-Methoxymethylethoxy)-propanol
IOELV TWA (mg/m ³)	308 mg/m ³
IOELV TWA (ppm)	50 ppm
Notes	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
Austria - Occupational Exposure Limits	
MAK [mg/m ³]	307 mg/m ³
MAK Daily average value (ppm)	50 ppm
MAK Short time value [mg/m ³]	614 mg/m ³
MAK Short time value [ppm]	100 ppm
Remark (AT)	max. 8x5 min./Schicht (gemessen als Momentanwert)
Belgium - Occupational Exposure Limits	
Limit value [mg/m ³]	308 mg/m ³
Limit value [ppm]	50 ppm
Remark (BE)	D
Czech Republic - Occupational Exposure Limits	
Local name	(2-Methoxymethylethoxy)-propanol (směs isomerů)
Expoziční limity (PEL) (mg/m ³)	270 mg/m ³
Expoziční limity (PEL) (ppm)	43.7 ppm
Expoziční limity (NPK-P) (mg/m ³)	550 mg/m ³
Expoziční limity (NPK-P) (ppm)	89.1 ppm
Remark (CZ)	D - při expozici se významně uplatňuje pronikání faktoru kůží.
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 41/2020 Sb.)
Denmark - Occupational Exposure Limits	
Local name	Dipropylenglycolmethylether (Methoxypropoxypropanol)
Grænsevædi (8 timer) (mg/m ³)	309 mg/m ³
Grænsevædi (8 timer) (ppm)	50 ppm
Grænsevædi (STEL) (mg/m ³)	600 mg/m ³
Grænsevædi (STEL) (ppm)	100 ppm
Anmærkninger (DK)	E (betyder, at stoffet har en EF-grænseværdi); H (betyder, at stoffet kan optages gennem huden)
Regulatory reference	BEK nr 1458 af 13/12/2019
Finland - Occupational Exposure Limits	
Local name	(2-Metoksिमetyylietoksi)-propanoli
HTP-arvo (8h) (mg/m ³)	310 mg/m ³
HTP-arvo (8h) (ppm)	50 ppm
Huomautus (FI)	iho
Regulatory reference	HTP-ARVOT 2018 (Sosiaali- ja terveysministeriö)

Paint-Riter™ Valve Action Paint Marker Black, Purple

Safety Data Sheet

according to Regulation (EU) 2015/830

(2-Methoxymethylethoxy)-propanol (34590-94-8)	
France - Occupational Exposure Limits	
Local name	(2-méthoxyméthyléthoxy)-propanol
VME [mg/m ³]	308 mg/m ³
VME [ppm]	50 ppm
Note (FR)	Valeurs réglementaires contraignantes; risque de pénétration percutanée
Regulatory reference	Article R4412-149 du Code du travail (réf.: INRS ED 984, 2016; Décret n° 2019-1487)
Germany - Occupational Exposure Limits (TRGS 900)	
TRGS 900 Local name	(2-Methoxymethyl-ethoxy)propanol (Isomerengemisch)
Occupational exposure limit value (mg/m ³)	310 mg/m ³
Occupational exposure limit value (ppm)	50 ppm
Limitation of exposure peaks (mg/m ³)	310 mg/m ³
Limitation of exposure peaks (ppm)	50 ppm
Peak exposure limitation factor	1(I)
TRGS 900 Remark	DFG;EU;11
TRGS 900 Regulatory reference	TRGS900
Hungary - Occupational Exposure Limits	
Local name	(2-METOXIMETILETOXI)-PROPANOL (Dipropilénglikol-monometil-éter)
AK-érték	308 mg/m ³
CK-érték	308 mg/m ³
Megjegyzések (HU)	EU1 (2000/39/EK irányelvben közölt érték); R (Azok az anyagok, amelyek egészségkárosító hatása RÖVID expozíció hatására jelentkeznek)
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m ³)	308 mg/m ³
OEL (8 hours ref) (ppm)	50 ppm
Notes (IE)	Sk, IOELV
Italy - Occupational Exposure Limits	
Local name	(2-metossimetiletossi)-propanolo
OEL TWA (mg/m ³)	308 mg/m ³
OEL TWA (ppm)	50 ppm
Notes	pelle
Regulatory reference	Allegato XXXVIII del D.Lgs. 9 aprile 2008, n. 81 e s.m.i.
Latvia - Occupational Exposure Limits	
Local name	Metoksipropoksi propanols (dipropilēnglikola monometilēteris, DPM)
OEL TWA (mg/m ³)	308 mg/m ³
OEL TWA (ppm)	50 ppm
Remark (LV)	Āda
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2011. gada 1. februārī noteikumiem Nr. 92)
Lithuania - Occupational Exposure Limits	
IPRV (mg/m ³)	300 mg/m ³
IPRV (ppm)	50 ppm
TPRV (mg/m ³)	450 mg/m ³
TPRV (ppm)	75 ppm
Remark (LT)	O

Paint-Riter™ Valve Action Paint Marker Black, Purple

Safety Data Sheet

according to Regulation (EU) 2015/830

(2-Methoxymethylethoxy)-propanol (34590-94-8)	
Netherlands - Occupational Exposure Limits	
Local name	Dipropyleenglycolmethylether
Grenswaarde TGG 8H (mg/m ³)	300 mg/m ³
Regulatory reference	Arbeidsomstandighedenregeling 2020
Poland - Occupational Exposure Limits	
Local name	(2-Metoksymetyloetoksy)propanol - mieszanina izomerów: 1-(2-metoksy-1-metyloetoksy)propan-2-ol, 1-(2-metoksy-2-metyloetoksy)propan-2-ol, 2-(2-metoksy-1-metyloetoksy)propan-1-ol
NDS (mg/m ³)	240 mg/m ³
NDSch (mg/m ³)	480 mg/m ³
Remark (PL)	Skóra (Oznakowanie substancji notacją „skóra” oznacza, że wchłanianie substancji przez skórę może być tak samo istotne jak przy narażeniu drogą oddechową).
Regulatory reference	Dz. U. 2018 poz. 1286
Portugal - Occupational Exposure Limits	
Local name	2-Metoximetiletoxiopropanol (DPGME)
OEL TWA (ppm)	100 ppm
OEL STEL (ppm)	150 ppm
Regulatory reference	Norma Portuguesa NP 1796:2014
Slovakia - Occupational Exposure Limits	
Local name	2-Metoxymetyl-etoxypropanol (dipropylén glykol mono-metyléter)
NPHV (priemerná) (mg/m ³)	308 mg/m ³
NPHV (priemerná) (ppm)	50 ppm
Upozornenie (SK)	K - znamená, že faktor môže byť ľahko absorbovaný kožou
Regulatory reference	Nariadenie vlády č. 33/2018 Z. z.
Slovenia - Occupational Exposure Limits	
Local name	(2-metoksimetiletoksi)propanol (mešanica izomer)
OEL TWA (mg/m ³)	308 mg/m ³
OEL TWA (ppm)	50 ppm
OEL STEL (mg/m ³)	308 mg/m ³
OEL STEL (ppm)	50 ppm
Remark (SI)	K (Lastnost lažjega prehajanja snovi v organizem skozi kožo), EU
Regulatory reference	Uradni list RS, št. 78/2019 z dne 20.12.2019
Spain - Occupational Exposure Limits	
Local name	Éter metílico de dipropilenglicol
VLA-ED (mg/m ³)	308 mg/m ³
VLA-ED (ppm)	50 ppm
Notes	Vía dérmica (Indica que, en las exposiciones a esta sustancia, la aportación por la vía cutánea puede resultar significativa para el contenido corporal total si no se adoptan medidas para prevenir la absorción. En estas situaciones, es aconsejable la utilización del control biológico para poder cuantificar la cantidad global absorbida del contaminante), VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo).
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
Sweden - Occupational Exposure Limits	
Local name	Dipropylenglykolmonometyleter
nivågränsvärde (NVG) (mg/m ³)	300 mg/m ³
nivågränsvärde (NVG) (ppm)	50 ppm
kortidsvärde (KTV) (mg/m ³)	450 mg/m ³

Paint-Riter™ Valve Action Paint Marker Black, Purple

Safety Data Sheet

according to Regulation (EU) 2015/830

(2-Methoxymethylethoxy)-propanol (34590-94-8)	
kortidsvärde (KTV) (ppm)	75 ppm
Anmärkning (SE)	H (Ämnet kan lätt upptas genom huden. Det föreskrivna gränsvärdet bedöms ge tillräckligt skydd endast under förutsättning att huden är skyddad mot exponering för ämnet ifråga); V (Vägledande kortidsgränsvärde ska användas som ett rekommenderat högsta värde som inte bör överskridas)
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m ³)	308 mg/m ³
WEL TWA (ppm)	50 ppm
Remark (WEL)	(Sk)
Norway - Occupational Exposure Limits	
Local name	(2-metoksymetyletoksy)-propanol (Dipropylenglykolmetyleter)
Grenseverdier (AN) (mg/m ³)	300 mg/m ³
Grenseverdier (AN) (ppm)	50 ppm
Merknader (NO)	H: Kjemikalier som kan tas opp gjennom huden; E: EU har en veiledende grenseverdi for stoffet.
Regulatory reference	FOR-2020-04-06-695
Switzerland - Occupational Exposure Limits	
VME [mg/m ³]	300 mg/m ³
MAK (ppm)	50 ppm
KZGW (mg/m ³)	300 mg/m ³
KZGW (ppm)	50 ppm
ethanol (64-17-5)	
Austria - Occupational Exposure Limits	
MAK [mg/m ³]	1900 mg/m ³
MAK Daily average value (ppm)	1000 ppm
MAK Short time value [mg/m ³]	3800 mg/m ³ max. 3x60 min./Schicht (gemessen als Momentanwert)
MAK Short time value [ppm]	2000 ppm max. 3x60 min./Schicht (gemessen als Momentanwert)
Belgium - Occupational Exposure Limits	
Limit value [mg/m ³]	1907 mg/m ³
Limit value [ppm]	1000 ppm
Czech Republic - Occupational Exposure Limits	
Local name	Ethanol (Ethylalkohol)
Expoziční limity (PEL) (mg/m ³)	1000 mg/m ³
Expoziční limity (PEL) (ppm)	522 ppm
Expoziční limity (NPK-P) (mg/m ³)	3000 mg/m ³
Expoziční limity (NPK-P) (ppm)	1566 ppm
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 41/2020 Sb.)
Denmark - Occupational Exposure Limits	
Local name	Ethanol (Ethylalkohol)
Grænsevædi (8 timer) (mg/m ³)	1900 mg/m ³
Grænsevædi (8 timer) (ppm)	1000 ppm
Grænsevædi (STEL) (mg/m ³)	3800 mg/m ³
Grænsevædi (STEL) (ppm)	2000 ppm
Regulatory reference	BEK nr 1458 af 13/12/2019

Paint-Riter™ Valve Action Paint Marker Black, Purple

Safety Data Sheet

according to Regulation (EU) 2015/830

ethanol (64-17-5)	
Finland - Occupational Exposure Limits	
Local name	Etanoli
HTP-arvo (8h) (mg/m ³)	1900 mg/m ³
HTP-arvo (8h) (ppm)	1000 ppm
HTP-arvo (15 min)	2500 mg/m ³
HTP-arvo (15 min) (ppm)	1300 ppm
Regulatory reference	HTP-ARVOT 2018 (Sosiaali- ja terveystieteiden ministeriö)
France - Occupational Exposure Limits	
Local name	Alcool éthylique
VME [mg/m ³]	1900 mg/m ³
VME [ppm]	1000 ppm
VLE [mg/m ³]	9500 mg/m ³
VLE [ppm]	5000 ppm
Note (FR)	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Germany - Occupational Exposure Limits (TRGS 900)	
TRGS 900 Local name	Ethanol
Occupational exposure limit value (mg/m ³)	380 mg/m ³
Occupational exposure limit value (ppm)	200 ppm
Peak exposure limitation factor	2(II)
TRGS 900 Remark	DFG;Y
TRGS 900 Regulatory reference	TRGS900
Hungary - Occupational Exposure Limits	
Local name	ETIL-ALKOHOL
AK-érték	1900 mg/m ³
CK-érték	3800 mg/m ³
Megjegyzések (HU)	N (Irritáló anyagok, egyszerű fojtógázok, csekély egészségkárosító hatással bíró anyagok)
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
Ireland - Occupational Exposure Limits	
OEL (15 min ref) (ppm)	1000 ppm
Latvia - Occupational Exposure Limits	
Local name	Etilspirts (etanols)
OEL TWA (mg/m ³)	1000 mg/m ³
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325
Lithuania - Occupational Exposure Limits	
IPRV (mg/m ³)	1000 mg/m ³
IPRV (ppm)	500 ppm
TPRV (mg/m ³)	1900 mg/m ³
TPRV (ppm)	1000 ppm
Netherlands - Occupational Exposure Limits	
Local name	Ethanol
Grenswaarde TGG 8H (mg/m ³)	260 mg/m ³
Grenswaarde TGG 15MIN (mg/m ³)	1900 mg/m ³

Paint-Riter™ Valve Action Paint Marker Black, Purple

Safety Data Sheet

according to Regulation (EU) 2015/830

ethanol (64-17-5)	
Remark (MAC)	Kankerverwekkende stof. H (Huidopname) Stoffen die relatief gemakkelijk door de huid kunnen worden opgenomen, hetgeen een substantiële bijdrage kan betekenen aan de totale inwendige blootstelling, hebben in de lijst een H-aanduiding. Bij deze stoffen moeten naast maatregelen tegen inademing ook adequate maatregelen ter voorkoming van huidcontact worden genomen.
Regulatory reference	Arbeidsomstandighedenregeling 2020
Poland - Occupational Exposure Limits	
Local name	Etanol (alkohol etylowy)
NDS (mg/m ³)	1900 mg/m ³
Regulatory reference	Dz. U. 2018 poz. 1286
Portugal - Occupational Exposure Limits	
Local name	Etanol (Álcool etílico)
OEL STEL (ppm)	1000 ppm
Regulatory reference	Norma Portuguesa NP 1796:2014
Slovakia - Occupational Exposure Limits	
Local name	Etylalkohol (etanol)
NPHV (priemerná) (mg/m ³)	960 mg/m ³
NPHV (priemerná) (ppm)	500 ppm
OEL STEL (mg/m ³)	1920 mg/m ³
OEL STEL (ppm)	1000 ppm
Regulatory reference	Nariadenie vlády č. 33/2018 Z. z.
Slovenia - Occupational Exposure Limits	
Local name	etanol (etilalkohol)
OEL TWA (mg/m ³)	960 mg/m ³
OEL TWA (ppm)	500 ppm
OEL STEL (mg/m ³)	1920 mg/m ³
OEL STEL (ppm)	1000 ppm
Remark (SI)	Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti)
Regulatory reference	Uradni list RS, št. 78/2019 z dne 20.12.2019
Spain - Occupational Exposure Limits	
Local name	Etanol (Alcohol etílico)
VLA-ED (mg/m ³)	1910 mg/m ³
VLA-ED (ppm)	1000 ppm
VLA-EC (mg/m ³)	1910 mg/m ³
VLA-EC (ppm)	1000 ppm
Notes	s (Esta sustancia tiene prohibida total o parcialmente su comercialización y uso como fitosanitario y/o como biocida. Para una información detallada acerca de las prohibiciones consúltese: Base de datos de productos biocidas: http://www.msssi.gob.es/ciudadanos/productos.do?tipo=plaguicidas Base de datos de productos fitosanitarios http://www.magrama.gob.es/agricultura/pags/fitos/registro/fichas/pdf/Lista_sa.pdf).
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
Sweden - Occupational Exposure Limits	
Local name	Etanol
nivågränsvärde (NVG) (mg/m ³)	1000 mg/m ³
nivågränsvärde (NVG) (ppm)	500 ppm
kortidsvärde (KTV) (mg/m ³)	1900 mg/m ³

Paint-Riter™ Valve Action Paint Marker Black, Purple

Safety Data Sheet

according to Regulation (EU) 2015/830

ethanol (64-17-5)	
kortidsvärde (KTV) (ppm)	1000 ppm
Anmärkning (SE)	V (Vägledande korttidsgränsvärde ska användas som ett rekommenderat högsta värde som inte bör överskridas)
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m ³)	1920 mg/m ³
WEL TWA (ppm)	1000 ppm
Norway - Occupational Exposure Limits	
Local name	Etanol
Grænseverdier (AN) (mg/m ³)	950 mg/m ³
Grænseverdier (AN) (ppm)	500 ppm
Regulatory reference	FOR-2020-04-06-695
Switzerland - Occupational Exposure Limits	
VME [mg/m ³]	960 mg/m ³
MAK (ppm)	500 ppm
KZGW (mg/m ³)	1920 mg/m ³
KZGW (ppm)	1000 ppm

Isopropanol (67-63-0)	
Austria - Occupational Exposure Limits	
MAK [mg/m ³]	500 mg/m ³
MAK Daily average value (ppm)	200 ppm
MAK Short time value [mg/m ³]	2000 mg/m ³ max. 4x15 min./Schicht
MAK Short time value [ppm]	800 ppm max. 4x15 min./Schicht
Belgium - Occupational Exposure Limits	
Limit value [mg/m ³]	500 mg/m ³
Limit value [ppm]	200 ppm
Short time value [mg/m ³]	1000 mg/m ³
Short time value [ppm]	400 ppm
Denmark - Occupational Exposure Limits	
Local name	Isopropylalkohol (Isopropanol; 2-Propanol; sec-Propylalkohol)
Grænsevædi (8 timer) (mg/m ³)	490 mg/m ³
Grænsevædi (8 timer) (ppm)	200 ppm
Grænsevædi (STEL) (mg/m ³)	980 mg/m ³
Grænsevædi (STEL) (ppm)	400 ppm
Regulatory reference	BEK nr 1458 af 13/12/2019
Finland - Occupational Exposure Limits	
Local name	2-Propanoli
HTP-arvo (8h) (mg/m ³)	500 mg/m ³
HTP-arvo (8h) (ppm)	200 ppm
HTP-arvo (15 min)	620 mg/m ³
HTP-arvo (15 min) (ppm)	250 ppm
France - Occupational Exposure Limits	
Local name	Alcool isopropylique
VLE [mg/m ³]	980 mg/m ³

Paint-Riter™ Valve Action Paint Marker Black, Purple

Safety Data Sheet

according to Regulation (EU) 2015/830

Isopropanol (67-63-0)	
VLE [ppm]	400 ppm
Note (FR)	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Germany - Occupational Exposure Limits (TRGS 900)	
TRGS 900 Local name	Propan-2-ol
Occupational exposure limit value (mg/m ³)	500 mg/m ³
Occupational exposure limit value (ppm)	200 ppm
Peak exposure limitation factor	2(II)
TRGS 900 Remark	DFG;Y
TRGS 900 Regulatory reference	TRGS900
Germany - Biological limit values (TRGS 903)	
TRGS 903 Biological limit value	50 mg/l Aceton (Blut; Expositionsende bzw. Schichtende)
Hungary - Occupational Exposure Limits	
Local name	IZOPROPIL-ALKOHOL
AK-érték	500 mg/m ³
CK-érték	1000 mg/m ³
Megjegyzések (HU)	b (Bőrön át is felszívódik), i (ingerlő anyag, amely irritálja a bőrt, nyálkahártyát, szemet vagy mindhármát); R (Azok az anyagok, amelyek egészségkárosító hatása RÖVID expozíció hatására jelentkezik)
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
Hungary - Biological limit values	
Local name	Izopropil-alkohol (2-Propanol)
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (ppm)	200 ppm
OEL (15 min ref) (ppm)	400 ppm
Notes (IE)	Sk
Latvia - Occupational Exposure Limits	
Local name	Izopropanols (2-propanols, izopropilspirts, 1-metil-1-etanols)
OEL TWA (mg/m ³)	350 mg/m ³
OEL STEL (mg/m ³)	600 mg/m ³
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumi Nr. 325 (Grozījumi Ministru kabineta 2011. gada 1. februārī noteikumi Nr. 92)
Lithuania - Occupational Exposure Limits	
IPRV (mg/m ³)	350 mg/m ³
IPRV (ppm)	150 ppm
TPRV (mg/m ³)	600 mg/m ³
TPRV (ppm)	250 ppm
Netherlands - Occupational Exposure Limits	
Grenswaarde TGG 8H (mg/m ³)	650 mg/m ³
Grenswaarde TGG 8H (ppm)	250 ppm
Poland - Occupational Exposure Limits	
Local name	Propan-2-ol (izopropylowy alkohol)
NDS (mg/m ³)	900 mg/m ³

Paint-Riter™ Valve Action Paint Marker Black, Purple

Safety Data Sheet

according to Regulation (EU) 2015/830

Isopropanol (67-63-0)	
NDSch (mg/m ³)	1200 mg/m ³
Remark (PL)	Skóra (Oznakowanie substancji notacją „skóra” oznacza, że wchłanianie substancji przez skórę może być tak samo istotne jak przy narażeniu drogą oddechową).
Regulatory reference	Dz. U. 2018 poz. 1286
Portugal - Occupational Exposure Limits	
Local name	2-Propanol (isopropanol ou álcool isopropílico)
OEL TWA (ppm)	200 ppm
OEL STEL (ppm)	400 ppm
Regulatory reference	Norma Portuguesa NP 1796:2014
Portugal - Biological limit values	
Local name	2-Propanol
Portugal (BEI)	40 mg/l Parâmetro: Acetona - Meio: urina - Momento da amostragem: Fim do turno no fim da semana de trabalho - Notação: Vb (Valor basal), Ne (Não específico)
Regulatory reference	Norma Portuguesa NP 1796:2014
Slovakia - Occupational Exposure Limits	
Local name	Izopropylalkohol (propán-2-ol)
NPHV (priemerná) (mg/m ³)	500 mg/m ³
NPHV (priemerná) (ppm)	200 ppm
OEL STEL (mg/m ³)	1000 mg/m ³
OEL STEL (ppm)	400 ppm
Regulatory reference	Nariadenie vlády č. 33/2018 Z. z.
Slovenia - Occupational Exposure Limits	
Local name	propan-2-ol (izopropilalkohol; izopropanol)
OEL TWA (mg/m ³)	500 mg/m ³
OEL TWA (ppm)	200 ppm
OEL STEL (mg/m ³)	1000 mg/m ³
OEL STEL (ppm)	400 ppm
Remark (SI)	Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti), BAT (Biolóška mejna vrednost)
Regulatory reference	Uradni list RS, št. 78/2019 z dne 20.12.2019
Slovenia - Biological limit values	
Local name	2-propanol
Regulatory reference	Uradni list RS, št. 78/2018 z dne 4.12.2018
Spain - Occupational Exposure Limits	
Local name	Isopropanol (Alcohol isopropílico)
VLA-ED (mg/m ³)	500 mg/m ³
VLA-ED (ppm)	200 ppm
VLA-EC (mg/m ³)	1000 mg/m ³
VLA-EC (ppm)	400 ppm
Notes	VLB® (Agente químico que tiene Valor Límite Biológico), s (Esta sustancia tiene prohibida total o parcialmente su comercialización y uso como fitosanitario y/o como biocida. Para una información detallada acerca de las prohibiciones consúltese: Base de datos de productos biocidas: http://www.msssi.gob.es/ciudadanos/productos.do?tipo=plaguicidas Base de datos de productos fitosanitarios http://www.magrama.gob.es/agricultura/pags/fitos/registro/fichas/pdf/Lista_sa.pdf).
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
Spain - Biological limit values	
Local name	Isopropanol (Alcohol isopropílico)

Paint-Riter™ Valve Action Paint Marker Black, Purple

Safety Data Sheet

according to Regulation (EU) 2015/830

Isopropanol (67-63-0)	
Spain - BLV	40 mg/l Parámetro: Acetona - Medio: Orina - Momento de muestreo: Final de la semana laboral - Notas: F (Fondo. El indicador está generalmente presente en cantidades detectables en personas no expuestas laboralmente. Estos niveles de fondo están considerados en el valor VLB), I (Significa que el indicador biológico es inespecífico puesto que puede encontrarse después de la exposición a otros agentes químicos)
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
Sweden - Occupational Exposure Limits	
Local name	Isopropanol
nivågränsvärde (NVG) (mg/m ³)	350 mg/m ³
nivågränsvärde (NVG) (ppm)	150 ppm
kortidsvärde (KTV) (mg/m ³)	600 mg/m ³
kortidsvärde (KTV) (ppm)	250 ppm
Anmärkning (SE)	V (Vägledande korttidsgränsvärde ska användas som ett rekommenderat högsta värde som inte bör överskridas)
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m ³)	999 mg/m ³
WEL TWA (ppm)	400 ppm
WEL STEL (mg/m ³)	1250 mg/m ³
WEL STEL [ppm]	500 ppm
Norway - Occupational Exposure Limits	
Local name	2-propanol (Isopropanol)
Grænseverdier (AN) (mg/m ³)	245 mg/m ³
Grænseverdier (AN) (ppm)	100 ppm
Regulatory reference	FOR-2020-04-06-695
Switzerland - Occupational Exposure Limits	
VME [mg/m ³]	500 mg/m ³
MAK (ppm)	200 ppm 25 ppm acetone (urina; fine dell'esposizione / del turno) 25 ppm acetone (sangue; fine dell'esposizione / del turno)
KZGW (mg/m ³)	1000 mg/m ³ max. 4x15 min./turno
KZGW (ppm)	400 ppm max. 4x15 min./turno
propyl acetate (109-60-4)	
Austria - Occupational Exposure Limits	
Remark (AT)	(gemessen als Momentanwert)
Czech Republic - Occupational Exposure Limits	
Local name	n-Propylacetát
Expoziční limity (PEL) (mg/m ³)	800 mg/m ³
Expoziční limity (PEL) (ppm)	190 ppm
Expoziční limity (NPK-P) (mg/m ³)	1000 mg/m ³
Expoziční limity (NPK-P) (ppm)	240 ppm
Remark (CZ)	I
Denmark - Occupational Exposure Limits	
Local name	n-Propylacetat
Grænsevædi (8 timer) (mg/m ³)	625 mg/m ³
Grænsevædi (8 timer) (ppm)	150 ppm

Paint-Riter™ Valve Action Paint Marker Black, Purple

Safety Data Sheet

according to Regulation (EU) 2015/830

propyl acetate (109-60-4)	
Grænsevædi (STEL) (mg/m ³)	1250 mg/m ³
Grænsevædi (STEL) (ppm)	300 ppm
Finland - Occupational Exposure Limits	
Local name	1-Propyyliasettaatti
HTP-arvo (8h) (mg/m ³)	420 mg/m ³
HTP-arvo (8h) (ppm)	100 ppm
HTP-arvo (15 min)	850 mg/m ³
HTP-arvo (15 min) (ppm)	200 ppm
France - Occupational Exposure Limits	
Local name	Acétate de n-propyle
VME [mg/m ³]	840 mg/m ³
VME [ppm]	200 ppm
Note (FR)	Valeurs recommandées/admises
Hungary - Occupational Exposure Limits	
Local name	PROPIL-ACETÁT
AK-érték	840 mg/m ³
CK-érték	840 mg/m ³
Megjegyzések (HU)	b, i, l.
Latvia - Occupational Exposure Limits	
Local name	Propilacetāts (etiķskābespropilesteris)
OEL TWA (mg/m ³)	200 mg/m ³
Poland - Occupational Exposure Limits	
Local name	Octan propylu
NDS (mg/m ³)	200 mg/m ³
NDSCh (mg/m ³)	400 mg/m ³
Portugal - Occupational Exposure Limits	
Local name	Acetato de n-propilo
OEL TWA (ppm)	200 ppm
OEL STEL (ppm)	250 ppm
Slovakia - Occupational Exposure Limits	
Local name	Propylacetát (octan propylový)
NPHV (priemerná) (mg/m ³)	400 mg/m ³
NPHV (priemerná) (ppm)	100 ppm
OEL STEL (mg/m ³)	800 mg/m ³
OEL STEL (ppm)	200 ppm
Slovenia - Occupational Exposure Limits	
Local name	propilacetat
OEL TWA (mg/m ³)	420 mg/m ³
OEL TWA (ppm)	100 ppm
OEL STEL (mg/m ³)	420 mg/m ³
OEL STEL (ppm)	100 ppm
Spain - Occupational Exposure Limits	
Local name	Acetato de n-propilo
VLA-ED (mg/m ³)	849 mg/m ³

Paint-Riter™ Valve Action Paint Marker Black, Purple

Safety Data Sheet

according to Regulation (EU) 2015/830

propyl acetate (109-60-4)	
VLA-ED (ppm)	200 ppm
VLA-EC (mg/m ³)	1060 mg/m ³
VLA-EC (ppm)	250 ppm
Sweden - Occupational Exposure Limits	
Local name	Propylacetat
nivågränsvärde (NVG) (mg/m ³)	400 mg/m ³
nivågränsvärde (NVG) (ppm)	100 ppm
kortidsvärde (KTV) (mg/m ³)	800 mg/m ³
kortidsvärde (KTV) (ppm)	200 ppm
Anmärkning (SE)	V (Vägledande korttidsgränsvärde ska användas som ett rekommenderat högsta värde som inte bör överskridas)
Norway - Occupational Exposure Limits	
Local name	n-propylacetat
Grenseverdier (AN) (mg/m ³)	420 mg/m ³
Grenseverdier (AN) (ppm)	100 ppm
Toluene (108-88-3)	
EU - Occupational Exposure Limits	
Local name	Toluene
IOELV TWA (mg/m ³)	192 mg/m ³
IOELV TWA (ppm)	50 ppm
IOELV STEL (mg/m ³)	384 mg/m ³
IOELV STEL (ppm)	100 ppm
Notes	Skin
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC
Austria - Occupational Exposure Limits	
MAK [mg/m ³]	190 mg/m ³ (H,d)
MAK Daily average value (ppm)	50 ppm (H,d)
MAK Short time value [mg/m ³]	380 mg/m ³ max. 4x15 min./Schicht, (H,d)
MAK Short time value [ppm]	100 ppm max. 4x15 min./Schicht, (H,d)
Belgium - Occupational Exposure Limits	
Limit value [mg/m ³]	77 mg/m ³
Limit value [ppm]	20 ppm
Short time value [mg/m ³]	384 mg/m ³
Short time value [ppm]	100 ppm
Remark (BE)	D
Czech Republic - Occupational Exposure Limits	
Local name	Toluen (Methylbenzen)
Expoziční limity (PEL) (mg/m ³)	192 mg/m ³
Expoziční limity (PEL) (ppm)	50 ppm
Expoziční limity (NPK-P) (mg/m ³)	384 mg/m ³
Expoziční limity (NPK-P) (ppm)	100 ppm
Remark (CZ)	B - u látky je zaveden biologický expoziční test (BET) v moči nebo krvi, D - při expozici se významně uplatňuje pronikání faktoru kůží, I - dráždí sliznice (oči, dýchací cesty), respektive kůži.
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 41/2020 Sb.)

Paint-Riter™ Valve Action Paint Marker Black, Purple

Safety Data Sheet

according to Regulation (EU) 2015/830

Toluene (108-88-3)	
Czech Republic - Biological limit values	
Local name	Toluen (Methylbenzen)
Czech Republic - BLV	1.5 mg/g creatinine Ukazatel: o-Kresol (po hydrolyze) - Biološki uzorak: moči - Doba odběru: konec směny 1.6 µmol/mmol Creatinine Ukazatel: o-Kresol (po hydrolyze) - Biološki uzorak: moči - Doba odběru: konec směny 1600 mg/g creatinine Ukazatel: Hippurová kyselina - Biološki uzorak: moči - Doba odběru: konec směny 1000 µmol/mmol Creatinine Ukazatel: Hippurová kyselina - Biološki uzorak: moči - Doba odběru: konec směny
Remark (BEI - CZ)	Je-li hodnota při nálezu kyseliny hippurové vyšší než 1600 mg/g, avšak nepřesahuje 2 500 mg/g kreatininu, použije se ke zpřesnění expozice toluenu biologický expoziční test podle ukazatele o-Kresol. Je-li hodnota při nálezu kyseliny hippurové vyšší než 2500 mg/g, považuje se za hodnotu prokazující, že jde o pracovní expozici toluenu, jehož hodnota PEL je překračována a biologický expoziční test podle ukazatele o-Kresol se již neprovádí.
Regulatory reference	Vyhláška č. 107/2013 Sb. (kterou se mění vyhláška č. 432/2003 Sb.)
Denmark - Occupational Exposure Limits	
Local name	Toluen (Methylbenzen; Phenylmethan)
Grænsevædi (8 timer) (mg/m³)	94 mg/m³
Grænsevædi (8 timer) (ppm)	25 ppm
Grænsevædi (STEL) (mg/m³)	188 mg/m³
Grænsevædi (STEL) (ppm)	50 ppm
Anmærkninger (DK)	E (betyder, at stoffet har en EF-grænseværdi); H (betyder, at stoffet kan optages gennem huden)
Regulatory reference	BEK nr 1458 af 13/12/2019
Finland - Occupational Exposure Limits	
Local name	Tolueeni
HTP-arvo (8h) (mg/m³)	81 mg/m³
HTP-arvo (8h) (ppm)	25 ppm 500 ppm (Veren tolueenipitoisuus, Työpäivän jälkeinen aamu)
HTP-arvo (15 min)	380 mg/m³
HTP-arvo (15 min) (ppm)	100 ppm
Finland - Biological limit values	
Local name	Tolueeni
Finland - BLV	500 nmol/l Parametri: Veren tolueeni - Näytteenottoajankohta: Työpäivän jälkeinen aamu
Regulatory reference	HTP-ARVOT 2018 (Sosiaali- ja terveysministeriö)
France - Occupational Exposure Limits	
Local name	Toluène
VME [mg/m³]	76.8 mg/m³
VME [ppm]	20 ppm
VLE [mg/m³]	384 mg/m³
VLE [ppm]	100 ppm
Note (FR)	Valeurs réglementaires contraignantes; risque de pénétration percutanée
Regulatory reference	Article R4412-149 du Code du travail (réf.: INRS ED 984, 2016; Décret n° 2019-1487)
Germany - Occupational Exposure Limits (TRGS 900)	
TRGS 900 Local name	Toluol
Occupational exposure limit value (mg/m³)	190 mg/m³
Occupational exposure limit value (ppm)	50 ppm
Peak exposure limitation factor	4(II)

Paint-Riter™ Valve Action Paint Marker Black, Purple

Safety Data Sheet

according to Regulation (EU) 2015/830

Toluene (108-88-3)	
TRGS 900 Remark	DFG;EU;H;Y
TRGS 900 Regulatory reference	TRGS900
Germany - Biological limit values (TRGS 903)	
TRGS 903 Biological limit value	3 mg/l o-Kresol (Urin; bei Langzeitexposition/Expositionsende bzw. Schichtende) 1 mg/l Toluol (Blut; Expositionsende bzw. Schichtende)
Hungary - Occupational Exposure Limits	
Local name	TOLUOL
AK-érték	190 mg/m ³
CK-érték	380 mg/m ³
Megjegyzések (HU)	b (Bőrön át is felszívódik), i (ingerlő anyag, amely irritálja a bőrt, nyálkahártyát, szemet vagy mindhármát); BEM (biológiai expozíciós mutató); EU2 (2006/15/EK irányelvben közölt érték); R+T (Azok az anyagok, amelyek RÖVID és TARTÓS expozíciója is egészségkárosodást okoz)
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
Hungary - Biological limit values	
Local name	Toluol
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m ³)	192 mg/m ³
OEL (8 hours ref) (ppm)	50 ppm
OEL (15 min ref) (mg/m ³)	384 mg/m ³
OEL (15 min ref) (ppm)	100 ppm
Italy - Occupational Exposure Limits	
Local name	Toluene
OEL TWA (mg/m ³)	192 mg/m ³
OEL TWA (ppm)	50 ppm
Notes	pelle
Regulatory reference	Allegato XXXVIII del D.Lgs. 9 aprile 2008, n. 81 e s.m.i.
Latvia - Occupational Exposure Limits	
Local name	Toluols (metilbenzols)
OEL TWA (mg/m ³)	50 mg/m ³
OEL TWA (ppm)	14 ppm
OEL STEL (mg/m ³)	150 mg/m ³
OEL STEL (ppm)	40 ppm
Remark (LV)	Āda, letekme uz dzirdi
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumi Nr. 325 (Grozījumi Ministru kabineta 2015. gada 7. aprīlī noteikumi Nr. 163)
Latvia - Biological limit values	
Local name	Toluolam
Latvia - BLV	1.6 g/g creatinine Urīnā maiņas beigās nosaka hipurskābi 0.05 mg/l Toluolu asinīs
Regulatory reference	Ministru kabineta 2007.gada 15.maija noteikumi Nr.325 (MK 10.07.2018)
Lithuania - Occupational Exposure Limits	
IPRV (mg/m ³)	192 mg/m ³
IPRV (ppm)	50 ppm
TPRV (mg/m ³)	384 mg/m ³

Paint-Riter™ Valve Action Paint Marker Black, Purple

Safety Data Sheet

according to Regulation (EU) 2015/830

Toluene (108-88-3)	
TPRV (ppm)	100 ppm
Remark (LT)	O
Netherlands - Occupational Exposure Limits	
Local name	Tolueen
Grenswaarde TGG 8H (mg/m ³)	150 mg/m ³
Grenswaarde TGG 15MIN (mg/m ³)	384 mg/m ³
Regulatory reference	Arbeidsomstandighedenregeling 2020
Poland - Occupational Exposure Limits	
Local name	Toluen
NDS (mg/m ³)	100 mg/m ³
NDSCh (mg/m ³)	200 mg/m ³
Remark (PL)	Skóra (Oznakowanie substancji notacją „skóra” oznacza, że wchłanianie substancji przez skórę może być tak samo istotne jak przy narażeniu drogą oddechową).
Regulatory reference	Dz. U. 2018 poz. 1286
Portugal - Occupational Exposure Limits	
Local name	Tolueno
OEL TWA (ppm)	20 ppm
Regulatory reference	Norma Portuguesa NP 1796:2014
Portugal - Biological limit values	
Local name	Tolueno
Portugal (BEI)	0.02 mg/l Parâmetro: Tolueno - Meio: sangue - Momento da amostragem: Antes do último turno da semana de trabalho 0.03 mg/l Parâmetro: Tolueno - Meio: urina - Momento da amostragem: Fim do turno 0.3 mg/g creatinine Parâmetro: o-Cresol - Meio: urina - Momento da amostragem: Fim do turno - Notação: Vb (Valor basal), Com hidrólise
Regulatory reference	Norma Portuguesa NP 1796:2014
Slovakia - Occupational Exposure Limits	
Local name	Toluén
NPHV (priemerná) (mg/m ³)	192 mg/m ³
NPHV (priemerná) (ppm)	50 ppm
OEL STEL (mg/m ³)	384 mg/m ³
OEL STEL (ppm)	100 ppm
Upozornenie (SK)	K - znamená, že faktor môže byť ľahko absorbovaný kožou
Regulatory reference	Nariadenie vlády č. 33/2018 Z. z.
Slovakia - Biological limit values	
Local name	Toluén
Slovakia - BLV	600 µg/l Zisťovaný faktor: Toluén - Vyšetrovaný materiál: krv - Čas odberu vzorky: b) koniec expozície alebo pracovnej zmeny 1.5 mg/l Zisťovaný faktor: O-krezol - Vyšetrovaný materiál: moč - Čas odberu vzorky: c) pri dlhodobej expozícii; po viacerých pracovných zmenách, b) koniec expozície alebo pracovnej zmeny 2401 mg/l Zisťovaný faktor: Kyselina hippurová - Vyšetrovaný materiál: moč - Čas odberu vzorky: b) koniec expozície alebo pracovnej zmeny 1600 mg/g creatinine Zisťovaný faktor: Kyselina hippurová - Vyšetrovaný materiál: moč - Čas odberu vzorky: b) koniec expozície alebo pracovnej zmeny
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (Zmena: 471/2011 Z.z.)
Slovenia - Occupational Exposure Limits	
Local name	toluen
OEL TWA (mg/m ³)	192 mg/m ³
OEL TWA (ppm)	50 ppm

Paint-Riter™ Valve Action Paint Marker Black, Purple

Safety Data Sheet

according to Regulation (EU) 2015/830

Toluene (108-88-3)	
OEL STEL (mg/m ³)	384 mg/m ³
OEL STEL (ppm)	100 ppm
Remark (SI)	K (Lastnost lažjega prehajanja snovi v organizem skozi kožo), Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti), BAT (Biološka mejna vrednost), EU
Regulatory reference	Uradni list RS, št. 78/2019 z dne 20.12.2019
Slovenia - Biological limit values	
Local name	toluen
Regulatory reference	Uradni list RS, št. 78/2018 z dne 4.12.2018
Spain - Occupational Exposure Limits	
Local name	Tolueno
VLA-ED (mg/m ³)	192 mg/m ³
VLA-ED (ppm)	50 ppm
VLA-EC (mg/m ³)	384 mg/m ³
VLA-EC (ppm)	100 ppm
Notes	Vía dérmica (Indica que, en las exposiciones a esta sustancia, la aportación por la vía cutánea puede resultar significativa para el contenido corporal total si no se adoptan medidas para prevenir la absorción. En estas situaciones, es aconsejable la utilización del control biológico para poder cuantificar la cantidad global absorbida del contaminante), VLB® (Agente químico que tiene Valor Límite Biológico), VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo), r (Esta sustancia tiene establecidas restricciones a la fabricación, la comercialización o el uso en los términos especificados en el "Reglamento (CE) nº 1907/2006 sobre Registro, Evaluación, Autorización y Restricción de sustancias y preparados químicos" (REACH) de 18 de diciembre de 2006 (DOUE L 369 de 30 de diciembre de 2006). Las restricciones de una sustancia pueden aplicarse a todos los usos o sólo a usos concretos. El anexo XVII del Reglamento REACH contiene la lista de todas las sustancias restringidas y especifica los usos que se han restringido).
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
Spain - Biological limit values	
Local name	Tolueno
Spain - BLV	0.6 mg/l Parámetro: o-Cresol - Medio: Orina - Momento de muestreo: Final de la jornada laboral - Notas: F (Fondo. El indicador está generalmente presente en cantidades detectables en personas no expuestas laboralmente. Estos niveles de fondo están considerados en el valor VLB) 0.05 mg/l Parámetro: Tolueno - Medio: Sangre - Momento de muestreo: Principio de la última jornada de la semana laboral 0.08 mg/l Parámetro: Tolueno - Medio: orina - Momento de muestreo: Final de la jornada laboral
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
Sweden - Occupational Exposure Limits	
Local name	Toluen
nivågränsvärde (NVG) (mg/m ³)	192 mg/m ³
nivågränsvärde (NVG) (ppm)	50 ppm
kortidsvärde (KTV) (mg/m ³)	384 mg/m ³
kortidsvärde (KTV) (ppm)	100 ppm
Anmärkning (SE)	B (Ämnet kan orsaka hörselskada. Exponering för ämnet nära det befintliga yrkeshygieniska gränsvärdet och vid samtidig exponering för buller nära insatsvärdet 80 dB kan orsaka hörselskada); H (Ämnet kan lätt upptas genom huden. Det föreskrivna gränsvärdet bedöms ge tillräckligt skydd endast under förutsättning att huden är skyddad mot exponering för ämnet ifråga)
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m ³)	191 mg/m ³

Paint-Riter™ Valve Action Paint Marker Black, Purple

Safety Data Sheet

according to Regulation (EU) 2015/830

Toluene (108-88-3)	
WEL TWA (ppm)	50 ppm
WEL STEL (mg/m ³)	384 mg/m ³
WEL STEL [ppm]	100 ppm
Remark (WEL)	(Sk)
Norway - Occupational Exposure Limits	
Local name	Toluen
Grenseverdier (AN) (mg/m ³)	94 mg/m ³
Grenseverdier (AN) (ppm)	25 ppm
Merknader (NO)	H: Kjemikalier som kan tas opp gjennom huden; E: EU har en veiledende grenseverdi for stoffet.
Regulatory reference	FOR-2020-04-06-695
Switzerland - Occupational Exposure Limits	
VME [mg/m ³]	190 mg/m ³
MAK (ppm)	50 ppm 0.6 ppm toluolo (sangue; fine dell'esposizione / del turno) 0.5 ppm o-cresolo (urina; in caso di esposizione per molto tempo/fine dell'esposizione / del turno)
KZGW (mg/m ³)	760 mg/m ³ max. 4x15 min./turno
KZGW (ppm)	200 ppm max. 4x15 min./turno
Aluminum oxide (1344-28-1)	
Austria - Occupational Exposure Limits	
MAK [mg/m ³]	10 mg/m ³ (gemessen als einatembarer Aerosolanteil) 5 mg/m ³ (alveolengängiger Anteil)
MAK Short time value [mg/m ³]	20 mg/m ³ (gemessen als einatembarer Aerosolanteil) max. 2x60 min./Schicht 10 mg/m ³ (alveolengängiger Anteil) max. 2x60 min./Schicht
Belgium - Occupational Exposure Limits	
Limit value [mg/m ³]	10 mg/m ³
Remark (BE)	(oxyde d') (en Al)
Denmark - Occupational Exposure Limits	
Local name	Aluminiumoxid
Grænsevædi (8 timer) (mg/m ³)	5 mg/m ³ beregnet som Al, total 2 mg/m ³ beregnet som Al, respirabel
Grænsevædi (STEL) (mg/m ³)	10 mg/m ³ (total) 4 mg/m ³ (respirabel)
Regulatory reference	BEK nr 1458 af 13/12/2019
France - Occupational Exposure Limits	
Local name	Aluminium (Trioxyde de di-)
VME [mg/m ³]	10 mg/m ³
Note (FR)	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Germany - Occupational Exposure Limits (TRGS 900)	
Occupational exposure limit value (mg/m ³)	3 mg/m ³
TRGS 900 Remark	(gemessen als alveolengängiger Staubanteil)
Hungary - Occupational Exposure Limits	
Megjegyzések (HU)	(respirable aerosol)

Paint-Riter™ Valve Action Paint Marker Black, Purple

Safety Data Sheet

according to Regulation (EU) 2015/830

Aluminum oxide (1344-28-1)	
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m ³)	10 mg/m ³ (total inhalable dust) 4 mg/m ³ (respirable dust)
Latvia - Occupational Exposure Limits	
Local name	Alumīnija oksīds
OEL TWA (mg/m ³)	6 mg/m ³ dezintegrācijas aerosola veidā 4 mg/m ³ maisījumā ar niķeli (līdz 15%), (elektrokorunds)
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2011. gada 1. februārī noteikumiem Nr. 92)
Lithuania - Occupational Exposure Limits	
IPRV (mg/m ³)	2 mg/m ³
Remark (LT)	(alveolinė frakcija. biūrėk IX skyriaus 3 pastabà.)
Poland - Occupational Exposure Limits	
Local name	Tritlenek glinu
NDS (mg/m ³)	2.5 mg/m ³ w przeliczeniu na Al: frakcja wdychalna 1.2 mg/m ³ w przeliczeniu na Al: frakcja respirabilna
Remark (PL)	Frakcja wdychalna – frakcja aerozolu wnikająca przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia. Frakcja respirabilna – frakcja aerozolu wnikająca do dróg oddechowych, która stwarza zagrożenie dla zdrowia po zdeponowaniu w obszarze wymiany gazowej.
Regulatory reference	Dz. U. 2018 poz. 1286
Slovakia - Occupational Exposure Limits	
Local name	Oxid hlinitý
NPHV (priemerná) (mg/m ³)	4 mg/m ³ inhalovateľná frakcia – prach 1.5 mg/m ³ respirabilná frakcia – prach
Regulatory reference	Nariadenie vlády č. 33/2018 Z. z.
Spain - Occupational Exposure Limits	
Local name	Óxido de aluminio (Corindón)
VLA-ED (mg/m ³)	10 mg/m ³
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
Sweden - Occupational Exposure Limits	
nivågränsvärde (NVG) (mg/m ³)	5 mg/m ³ (inhalable aerosol) 2 mg/m ³ (respirable aerosol)
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m ³)	10 mg/m ³ (inhalable aerosol) 4 mg/m ³ (respirable aerosol)
Norway - Occupational Exposure Limits	
Local name	Aluminiumoksid
Grønseverdier (AN) (mg/m ³)	10 mg/m ³
Merknader (NO)	1) Grønseverdien er fastsatt lik verdien for sjenerende støv.
Regulatory reference	FOR-2020-04-06-695
Switzerland - Occupational Exposure Limits	
VME [mg/m ³]	3 mg/m ³
Remark	(respirable aerosol)
Aluminum hydroxide (21645-51-2)	
Austria - Occupational Exposure Limits	
MAK Daily average value (ppm)	10 ppm (gemessen als einatembarer Aerosolanteil) 5 ppm (alveolengängiger Anteil)

Paint-Riter™ Valve Action Paint Marker Black, Purple

Safety Data Sheet

according to Regulation (EU) 2015/830

Aluminum hydroxide (21645-51-2)	
MAK Short time value [ppm]	20 ppm (gemessen als einatembarer Aerosolanteil) max. 2x60 min./Schicht 10 ppm (alveolengängiger Anteil) max. 2x60 min./Schicht
Latvia - Occupational Exposure Limits	
Local name	Alumīnija hidroksīds
OEL TWA (mg/m ³)	6 mg/m ³
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2011. gada 1. februārī noteikumiem Nr. 92)
Lithuania - Occupational Exposure Limits	
IPRV (mg/m ³)	6 mg/m ³
Remark (LT)	F
Poland - Occupational Exposure Limits	
Local name	Wodorotlenek glinu
NDS (mg/m ³)	2.5 mg/m ³ w przeliczeniu na Al: frakcja wdychalna 1.2 mg/m ³ w przeliczeniu na Al: frakcja respirabilna
Remark (PL)	Frakcja wdychalna – frakcja aerozolu wnikaćca przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia. Frakcja respirabilna – frakcja aerozolu wnikaćca do dróg oddechowych, która stwarza zagrożenie dla zdrowia po zdeponowaniu w obszarze wymiany gazowej.
Regulatory reference	Dz. U. 2018 poz. 1286
Slovakia - Occupational Exposure Limits	
Local name	Hydroxid hlinitý
NPHV (priemerná) (mg/m ³)	4 mg/m ³ inhalovateľná frakcia – prach 1.5 mg/m ³ respirabilná frakcia – prach
Regulatory reference	Nariadenie vlády č. 33/2018 Z. z.
Switzerland - Occupational Exposure Limits	
VME [mg/m ³]	3 mg/m ³
Remark	(alveolengängige Fraktion)

Silicon dioxide (amorphous) (7631-86-9)	
Austria - Occupational Exposure Limits	
MAK [mg/m ³]	4 mg/m ³
Remark (AT)	(einatembare Fraktion)
Finland - Occupational Exposure Limits	
HTP-arvo (8h) (mg/m ³)	5 mg/m ³
Germany - Occupational Exposure Limits (TRGS 900)	
TRGS 900 Local name	Kieselsäuren, amorphe
Occupational exposure limit value (mg/m ³)	4 mg/m ³ (E)
TRGS 900 Remark	DFG;2;Y
TRGS 900 Regulatory reference	TRGS900
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m ³)	2.4 mg/m ³ 6 mg/m ³ (total inhalable dust)
Latvia - Occupational Exposure Limits	
Local name	Silīcija dioksīds
OEL TWA (mg/m ³)	1 mg/m ³
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2020. gada 7. janvārī noteikumiem Nr. 11)

Paint-Riter™ Valve Action Paint Marker Black, Purple

Safety Data Sheet

according to Regulation (EU) 2015/830

Silicon dioxide (amorphous) (7631-86-9)	
Slovenia - Occupational Exposure Limits	
Local name	silikagel
OEL TWA (mg/m ³)	4 mg/m ³
Remark (SI)	Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti)
Regulatory reference	Uradni list RS, št. 78/2019 z dne 20.12.2019
Spain - Occupational Exposure Limits	
VLA-ED (mg/m ³)	10 mg/m ³
Notes	(respirable aerosol)
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m ³)	6 mg/m ³ (inhalable aerosol) 2.4 mg/m ³ (respirable aerosol)
Switzerland - Occupational Exposure Limits	
VME [mg/m ³]	4 mg/m ³
Remark	(einatembarer Staub)

Titanium dioxide (13463-67-7)	
Austria - Occupational Exposure Limits	
MAK [mg/m ³]	5 mg/m ³ (alveolengängiger Anteil)
MAK Short time value [mg/m ³]	10 mg/m ³ max. 2x60 min./Schicht (alveolengängiger Anteil)
Belgium - Occupational Exposure Limits	
Limit value [mg/m ³]	10 mg/m ³
Remark (BE)	(dioxyde de)
Denmark - Occupational Exposure Limits	
Local name	Titandioxid
Grænsevædi (8 timer) (mg/m ³)	6 mg/m ³ beregnet som Ti
Grænsevædi (STEL) (mg/m ³)	12 mg/m ³
Regulatory reference	BEK nr 1458 af 13/12/2019
France - Occupational Exposure Limits	
Local name	Titane (dioxyde de), en Ti
VME [mg/m ³]	10 mg/m ³
Note (FR)	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m ³)	10 mg/m ³ total inhalable dust 4 mg/m ³ respirable dust
Latvia - Occupational Exposure Limits	
Local name	Titāna dioksīds
OEL TWA (mg/m ³)	10 mg/m ³
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2011. gada 1. februārī noteikumiem Nr. 92)
Lithuania - Occupational Exposure Limits	
IPRV (mg/m ³)	5 mg/m ³
Poland - Occupational Exposure Limits	
Local name	Ditlenek tytanu
NDS (mg/m ³)	10 mg/m ³ frakcja wdychalna

Paint-Riter™ Valve Action Paint Marker Black, Purple

Safety Data Sheet

according to Regulation (EU) 2015/830

Titanium dioxide (13463-67-7)	
Remark (PL)	Frakcja wdychalna – frakcja aerozolu wnikaćca przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia. Obowiązuje jednocześnie oznaczanie stężeń frakcji respirabilnej krzemionki krystalicznej.
Regulatory reference	Dz. U. 2018 poz. 1286
Portugal - Occupational Exposure Limits	
Local name	Dióxido de titânio
OEL TWA (mg/m ³)	10 mg/m ³
Regulatory reference	Norma Portuguesa NP 1796:2014
Slovakia - Occupational Exposure Limits	
Local name	Oxid titaničitý
NPHV (priemerná) (mg/m ³)	5 mg/m ³
Regulatory reference	Nariadenie vlády č. 33/2018 Z. z.
Spain - Occupational Exposure Limits	
Local name	Dióxido de titanio
VLA-ED (mg/m ³)	10 mg/m ³
Notes	inhalable aerosol
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
Sweden - Occupational Exposure Limits	
Local name	Titandioxid
nivågränsvärde (NVG) (mg/m ³)	5 mg/m ³ totaldamm
Anmärkning (SE)	3 (Med totaldamm menas de partiklar (aerosoler) som fastnar på ett filter i den provtagare som beskrivs i Metodserien, Provtagning av totaldamm och respirabelt damm, Metod nr 1010, Arbetskyddsstyrelsen, numera Arbetsmiljöverket. Filterdiametern är normalt 37 mm, men kan även vara 25 mm. Trots sitt namn provtas inte den totala mängden luftburna partiklar med denna metod)
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m ³)	10 mg/m ³ inhalable aerosol 4 mg/m ³ respirable aerosol
Norway - Occupational Exposure Limits	
Local name	Titandioksid
Grenseverdier (AN) (mg/m ³)	5 mg/m ³
Regulatory reference	FOR-2020-04-06-695
Switzerland - Occupational Exposure Limits	
VME [mg/m ³]	3 mg/m ³
Remark	(respirable aerosol)

8.2. Exposure controls

Appropriate engineering controls:

Provide local exhaust ventilation of closed transfer systems to minimize exposures. Avoid creating mist or spray. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

In case of repeated or prolonged contact wear gloves. Butyl rubber gloves. short term. nitrile rubber gloves. EN374

Eye protection:

Chemical goggles or safety glasses. EN166

Paint-Riter™ Valve Action Paint Marker Black, Purple

Safety Data Sheet

according to Regulation (EU) 2015/830

Respiratory protection:

None under normal use

Consumer exposure controls:

Keep out of reach of children.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Solid marker containing liquid colored paint.
Colour	: Variable.
Odour	: Solvent.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: < 1
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 78.3 °C
Flash point	: 12.2 °C
Auto-ignition temperature	: 287 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: Flammable liquid and vapour.
Vapour pressure	: 11.8
Relative vapour density at 20 °C	: No data available
Relative density	: 1 – 1.33
Solubility	: insoluble in water.
Log Pow	: 0.7
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

VOC content : 50 – 60 %

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known.

10.2. Chemical stability

Flammable liquid and vapour.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Open flame. Overheating. Direct sunlight. Heat. Sparks.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

May release flammable gases. Burning produces irritating, toxic and noxious fumes. Carbon oxides (CO, CO₂).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)

1-Methoxy-2-propanol (107-98-2)

LD50 oral rat	4016 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg bodyweight
LC50 Inhalation - Rat [ppm]	> 7000 ppm 6 hr

Paint-Riter™ Valve Action Paint Marker Black, Purple

Safety Data Sheet

according to Regulation (EU) 2015/830

Ethyl acetate (141-78-6)

LD50 oral rat	4934 mg/kg
LD50 oral	10200 mg/kg
LD50 dermal rabbit	> 20000 mg/kg
LC50 Inhalation - Rat	> 18 mg/l/4h

Butyl acetate (123-86-4)

LD50 oral rat	10760 mg/kg
LD50 dermal rabbit	> 14112 mg/kg
LC50 Inhalation - Rat	> 21 mg/l/4h

2-methoxy-1-methylethyl acetate (108-65-6)

LD50 oral rat	8532 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 Inhalation - Rat [ppm]	4345 ppm 6 h

2-methoxypropyl acetate (70657-70-4)

LC50 Inhalation - Rat [ppm]	2700 ppm 6 h
-----------------------------	--------------

2-methylpropan-1-ol (78-83-1)

LD50 oral rat	3350 mg/kg
LD50 dermal rabbit	2460 mg/kg
LC50 Inhalation - Rat	24.6 mg/l/4h

Carbon black (1333-86-4)

LD50 oral rat	> 8000 mg/kg
LC50 Inhalation - Rat	> 4.6 mg/m ³ 4 h

(2-Methoxymethylethoxy)-propanol (34590-94-8)

LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 19020 mg/kg
LC50 Inhalation - Rat	> 1667 mg/l/4h
LC50 Inhalation - Rat (Dust/Mist)	> 1667 mg/l/4h

ethanol (64-17-5)

LD50 oral rat	10470 mg/kg
LD50 dermal rabbit	> 20000 mg/kg
LC50 Inhalation - Rat	133.8 mg/l/4h

Isopropanol (67-63-0)

LD50 oral rat	5840 mg/kg
LD50 dermal rabbit	16.4 ml/kg
LC50 Inhalation - Rat [ppm]	> 10000 ppm/4h

propyl acetate (109-60-4)

LD50 oral rat	8700 mg/kg
LD50 dermal rabbit	> 17800 mg/kg
LC50 Inhalation - Rat	32 mg/l/4h

Paint-Riter™ Valve Action Paint Marker Black, Purple

Safety Data Sheet

according to Regulation (EU) 2015/830

Toluene (108-88-3)	
LD50 oral rat	5580 mg/kg EU Method B.
LC50 Inhalation - Rat	> 20 mg/l/4h OECD Guideline 403

Aluminum oxide (1344-28-1)	
LD50 oral rat	> 15900 mg/kg
LC50 Inhalation - Rat	7.6 mg/l/4h

Silicon dioxide (amorphous) (7631-86-9)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 Inhalation - Rat	> 58.8 mg/l/4h

Titanium dioxide (13463-67-7)	
LD50 oral rat	> 5000 mg/kg
LC50 Inhalation - Rat	> 6.82 mg/l/4h

Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met)
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)

Carbon black (1333-86-4)	
IARC group	2B - Possibly carcinogenic to humans, Inhalation of dust

ethanol (64-17-5)	
IARC group	1 - Carcinogenic to humans, Alcoholic beverages

Isopropanol (67-63-0)	
IARC group	3 - Not classifiable

Toluene (108-88-3)	
IARC group	3 - Not classifiable

Silicon dioxide (amorphous) (7631-86-9)	
IARC group	3 - Not classifiable

Titanium dioxide (13463-67-7)	
IARC group	2B - Possibly carcinogenic to humans

Titanium dioxide (13463-67-7)	
NOAEL (chronic, oral, animal/male, 2 years)	5 mg/kg bodyweight rat
Additional information	Carcinogen, cat 1A or 1B. Inhalation of dust

Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
-----------------------	---

Ethyl acetate (141-78-6)	
NOAEL (animal/male, F0/P)	26400 mg/kg
NOAEL (animal/female, F0/P)	26400 mg/kg

STOT-single exposure	: May cause drowsiness or dizziness.
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)

Paint-Riter™ Valve Action Paint Marker Black, Purple

Safety Data Sheet

according to Regulation (EU) 2015/830

Ethyl acetate (141-78-6)

NOAEL (subchronic, oral, animal/male, 90 days)	900 mg/kg bodyweight
NOAEL (subchronic, oral, animal/female, 90 days)	900 mg/kg bodyweight

Toluene (108-88-3)

LOAEC (inhalation, rat, gas, 90 days)	1250 ppmv/6h/day
NOAEL (oral, rat, 90 days)	625 mg/kg bodyweight/day EU Method B.26.
NOAEC (inhalation, rat, gas, 90 days)	300 ppmv/6h/day OECD Guideline 453

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

1-Methoxy-2-propanol (107-98-2)

LC50 fish 1	20800 mg/l
EC50 crustacea	23300 mg/l
ErC50 (algae)	> 1000 mg/l

Ethyl acetate (141-78-6)

LC50 fish 1	220 mg/l
EC50 crustacea	1200 mg/l
NOEC chronic fish	< 9.35 mg/l

2-methoxy-1-methylethyl acetate (108-65-6)

LC50 fish 1	100 – 180 mg/l
EC50 crustacea	> 500 mg/l 48 h
ErC50 (algae)	> 1000 mg/l

2-methylpropan-1-ol (78-83-1)

LC50 fish 1	1430 mg/l 96 h
EC50 crustacea	1100 mg/l 48 h

(2-Methoxymethylethoxy)-propanol (34590-94-8)

LC50 fish 1	> 1000 mg/l <i>Poecilia reticulata</i>
ErC50 (algae)	> 1000 mg/l

ethanol (64-17-5)

LC50 fish 1	14200 mg/l
EC50 crustacea	5012 mg/l

Isopropanol (67-63-0)

LC50 fish 1	10000 mg/l
-------------	------------

propyl acetate (109-60-4)

LC50 fish 1	60 mg/l 96 h
EC50 crustacea	91.5 mg/l 48 h

Paint-Riter™ Valve Action Paint Marker Black, Purple

Safety Data Sheet

according to Regulation (EU) 2015/830

Toluene (108-88-3)

LC50 fish 1	5.5 mg/l
EC50 Daphnia 2	3.78 mg/l
ErC50 (algae)	134 mg/l
LOEC (chronic)	2.77 mg/l
NOEC chronic fish	1.39 mg/l
NOEC chronic crustacea	0.74 mg/l

Aluminum oxide (1344-28-1)

EC50 crustacea	1470 mg/l
NOEC (acute)	50 mg/l

Silicon dioxide (amorphous) (7631-86-9)

LC50 fish 1	> 10000 mg/l
EC50 crustacea	> 1000 mg/l

12.2. Persistence and degradability

Paint-Riter™ Valve Action Paint Marker Black, Purple

Persistence and degradability	Not established.
-------------------------------	------------------

1-Methoxy-2-propanol (107-98-2)

Persistence and degradability	Readily biodegradable.
Biodegradation	96 % 28 d

Ethyl acetate (141-78-6)

Persistence and degradability	Readily biodegradable.
-------------------------------	------------------------

2-methoxy-1-methylethyl acetate (108-65-6)

Persistence and degradability	Readily biodegradable.
Biodegradation	89 % 10 d

2-methylpropan-1-ol (78-83-1)

Biodegradation	70 (70 – 80) % 28 d
----------------	---------------------

Carbon black (1333-86-4)

Persistence and degradability	Not readily biodegradable.
-------------------------------	----------------------------

(2-Methoxymethylethoxy)-propanol (34590-94-8)

Persistence and degradability	Readily biodegradable.
-------------------------------	------------------------

ethanol (64-17-5)

Biodegradation	> 96 % 28 d
----------------	-------------

Isopropanol (67-63-0)

Persistence and degradability	Readily biodegradable.
-------------------------------	------------------------

propyl acetate (109-60-4)

Persistence and degradability	Readily biodegradable.
Biodegradation	62 % 5 d

Paint-Riter™ Valve Action Paint Marker Black, Purple

Safety Data Sheet

according to Regulation (EU) 2015/830

Toluene (108-88-3)

Persistence and degradability Readily biodegradable.

Silicon dioxide (amorphous) (7631-86-9)

Persistence and degradability Product persists.

12.3. Bioaccumulative potential

Paint-Riter™ Valve Action Paint Marker Black, Purple

Log Pow 0.7

Bioaccumulative potential Not established.

1-Methoxy-2-propanol (107-98-2)

Bioaccumulative potential Not expected to bioaccumulate.

Ethyl acetate (141-78-6)

Bioaccumulative potential Not expected to bioaccumulate.

2-methoxy-1-methylethyl acetate (108-65-6)

Log Pow 0.43

2-methylpropan-1-ol (78-83-1)

Log Pow 0.76

ethanol (64-17-5)

Bioaccumulative potential Not expected to bioaccumulate.

Isopropanol (67-63-0)

Bioaccumulative potential Not expected to bioaccumulate.

propyl acetate (109-60-4)

Log Pow 1.23

Toluene (108-88-3)

Bioconcentration factor (BCF REACH) 90

Log Kow 2.73

12.4. Mobility in soil

Paint-Riter™ Valve Action Paint Marker Black, Purple

Ecology - soil No additional information available.

12.5. Results of PBT and vPvB assessment

Paint-Riter™ Valve Action Paint Marker Black, Purple

PBT: not yet assessed

vPvB: not yet assessed

12.6. Other adverse effects

Additional information : No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Sewage disposal recommendations : Do not dispose of waste into sewer.

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Additional information : Handle empty containers with care because residual vapours are flammable.

European List of Waste (LoW) code : For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.

Paint-Riter™ Valve Action Paint Marker Black, Purple

Safety Data Sheet

according to Regulation (EU) 2015/830

HP Code

: HP13 - "Sensitising:" waste which contains one or more substances known to cause sensitising effects to the skin or the respiratory organs.
HP3 - "Flammable:"
— flammable liquid waste: liquid waste having a flash point below 60 °C or waste gas oil, diesel and light heating oils having a flash point > 55 °C and ≤ 75 °C;
— flammable pyrophoric liquid and solid waste: solid or liquid waste which, even in small quantities, is liable to ignite within five minutes after coming into contact with air;
— flammable solid waste: solid waste which is readily combustible or may cause or contribute to fire through friction;
— flammable gaseous waste: gaseous waste which is flammable in air at 20 °C and a standard pressure of 101.3 kPa;
— water reactive waste: waste which, in contact with water, emits flammable gases in dangerous quantities;
— other flammable waste: flammable aerosols, flammable self-heating waste, flammable organic peroxides and flammable self-reactive waste.
HP5 - "Specific Target Organ Toxicity (STOT)/Aspiration Toxicity:" waste which can cause specific target organ toxicity either from a single or repeated exposure, or which cause acute toxic effects following aspiration.
HP4 - "Irritant — skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR) : UN 1263
UN-No. (IMDG) : UN 1263
UN-No. (IATA) : UN 1263
UN-No. (ADN) : UN 1263
UN-No. (RID) : UN 1263

14.2. UN proper shipping name

Proper Shipping Name (ADR) : PAINT
Proper Shipping Name (IMDG) : PAINT
Proper Shipping Name (IATA) : PAINT
Proper Shipping Name (ADN) : PAINT
Proper Shipping Name (RID) : PAINT
Transport document description (ADR) : UN 1263 PAINT, 3, II, (D/E)
Transport document description (IMDG) : UN 1263 PAINT, 3, II
Transport document description (IATA) : UN 1263 PAINT, 3, II
Transport document description (ADN) : UN 1263 PAINT, 3, II
Transport document description (RID) : UN 1263 PAINT, 3, II

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 3
Danger labels (ADR) : 3



IMDG

Transport hazard class(es) (IMDG) : 3
Danger labels (IMDG) : 3



IATA

Transport hazard class(es) (IATA) : 3
Danger labels (IATA) : 3

Paint-Riter™ Valve Action Paint Marker Black, Purple

Safety Data Sheet

according to Regulation (EU) 2015/830



ADN

Transport hazard class(es) (ADN) : 3

Danger labels (ADN) : 3



RID

Transport hazard class(es) (RID) : 3

Danger labels (RID) : 3



14.4. Packing group

Packing group (ADR) : II

Packing group (IMDG) : II

Packing group (IATA) : II

Packing group (ADN) : II

Packing group (RID) : II

14.5. Environmental hazards

Dangerous for the environment : No

Marine pollutant : No

Other information : No supplementary information available

14.6. Special precautions for user

Overland transport

Classification code (ADR) : F1

Special provisions (ADR) : 163, 367, 640C, 650

Limited quantities (ADR) : 5I

Excepted quantities (ADR) : E2

Packing instructions (ADR) : P001

Special packing provisions (ADR) : PP1

Mixed packing provisions (ADR) : MP19

Portable tank and bulk container instructions (ADR) : T4

Portable tank and bulk container special provisions (ADR) : TP1, TP8, TP28

Tank code (ADR) : L1.5BN

Vehicle for tank carriage : FL

Transport category (ADR) : 2

Special provisions for carriage - Operation (ADR) : S2, S20

Hazard identification number (Kemler No.) : 33

Orange plates :

Tunnel restriction code (ADR) : D/E

EAC code : •3YE

Transport by sea

Special provisions (IMDG) : 163, 367

Limited quantities (IMDG) : 5 L

Paint-Riter™ Valve Action Paint Marker Black, Purple

Safety Data Sheet

according to Regulation (EU) 2015/830

Excepted quantities (IMDG)	: E2
Packing instructions (IMDG)	: P001
Special packing provisions (IMDG)	: PP1
IBC packing instructions (IMDG)	: IBC02
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1, TP8, TP28
EmS-No. (Fire)	: F-E
EmS-No. (Spillage)	: S-E
Stowage category (IMDG)	: B

Air transport

PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y341
PCA limited quantity max net quantity (IATA)	: 1L
PCA packing instructions (IATA)	: 353
PCA max net quantity (IATA)	: 5L
CAO packing instructions (IATA)	: 364
CAO max net quantity (IATA)	: 60L
Special provisions (IATA)	: A3, A72, A192
ERG code (IATA)	: 3L

Inland waterway transport

Classification code (ADN)	: F1
Special provisions (ADN)	: 163, 367, 640C, 650
Limited quantities (ADN)	: 5 L
Excepted quantities (ADN)	: E2
Equipment required (ADN)	: PP, EX, A
Ventilation (ADN)	: VE01
Number of blue cones/lights (ADN)	: 1

Rail transport

Classification code (RID)	: F1
Special provisions (RID)	: 163, 367, 640C, 650
Limited quantities (RID)	: 5L
Excepted quantities (RID)	: E2
Packing instructions (RID)	: P001
Special packing provisions (RID)	: PP1
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T4
Portable tank and bulk container special provisions (RID)	: TP1, TP8, TP28
Tank codes for RID tanks (RID)	: L1.5BN
Transport category (RID)	: 2
Colis express (express parcels) (RID)	: CE7
Hazard identification number (RID)	: 33

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3(a) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F	Paint-Riter™ Valve Action Paint Marker Black, Purple ; 1-Methoxy-2-propanol ; Ethyl acetate ; Butyl acetate ; 2-methoxy-1-methylethyl acetate ; 2-methoxypropyl acetate ; 2-methylpropan-1-ol ; ethanol ; Isopropanol ; propyl acetate ; Toluene
3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	Paint-Riter™ Valve Action Paint Marker Black, Purple ; 1-Methoxy-2-propanol ; Ethyl acetate ; Butyl acetate ; 2-methoxypropyl acetate ; 2-methylpropan-1-ol ; Isopropanol ; propyl acetate ; Toluene

Paint-Riter™ Valve Action Paint Marker Black, Purple

Safety Data Sheet

according to Regulation (EU) 2015/830

3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	Toluene
30. Substances which are classified as reproductive toxicant category 1A or 1B in Part 3 of Annex VI to Regulation (EC) No 1272/2008 and are listed in Appendix 5 or Appendix 6, respectively.	2-methoxypropyl acetate
40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.	Paint-Riter™ Valve Action Paint Marker Black, Purple ; 1-Methoxy-2-propanol ; Ethyl acetate ; Butyl acetate ; 2-methoxy-1-methylethyl acetate ; 2-methoxypropyl acetate ; 2-methylpropan-1-ol ; ethanol ; Isopropanol ; propyl acetate ; Toluene
48. Toluene	Toluene

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

VOC content : 50 – 60 %

15.1.2. National regulations

Germany

VwVwS Annex reference : WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1)

WGK remark : Classification based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen : 2-methoxypropyl acetate, ethanol are listed

SZW-lijst van mutagene stoffen : 2-methoxypropyl acetate is listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : ethanol is listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : ethanol is listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : 2-methoxypropyl acetate, ethanol, Toluene are listed

Denmark

Class for fire hazard : Class I-1

Store unit : 1 liter

Classification remarks : F <Flam. Liq. 2>; Emergency management guidelines for the storage of flammable liquids must be followed

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:

	ATE: Acute Toxicity Estimate
	CAS (Chemical Abstracts Service) number
	CLP: Classification, Labelling, Packaging.
	EC50: Environmental Concentration associated with a response by 50% of the test population.
	GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).

Paint-Riter™ Valve Action Paint Marker Black, Purple

Safety Data Sheet

according to Regulation (EU) 2015/830

	LD50: Lethal Dose for 50% of the test population
	OSHA: Occupational Safety & Health Administration
	PBT: Persistent, Bioaccumulative, Toxic
	TWA: Time Weighted Average
	TSCA: Toxic Substances Control Act

Data sources : ESIS (European chemical Substances Information System; accessed at: <http://esis.jrc.ec.europa.eu/index.php?PGM=cla>. European Chemicals Agency (ECHA) C&L Inventory database. Accessed at <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>. Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition. National Fire Protection Association. Fire Protection Guide to Hazardous Materials; 10th edition. REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

Full text of H- and EUH-statements:	
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Aquatic Chronic 4	Hazardous to the aquatic environment — Chronic Hazard, Category 4
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Repr. 1B	Reproductive toxicity, Category 1B
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1B	Skin sensitisation, category 1B
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H360D	May damage the unborn child.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Flam. Liq. 2	H225	On basis of test data
Eye Irrit. 2	H319	Calculation method
Skin Sens. 1B	H317	Calculation method
STOT SE 3	H336	Calculation method

Paint-Riter™ Valve Action Paint Marker Black, Purple

Safety Data Sheet

according to Regulation (EU) 2015/830

SDS Prepared by: The Redstone Group, dba SafeBridge Consultants, Inc.
110 Polaris Pkwy
Suite 200
Westerville, OH USA 43082
P: +1 (614) 923-7472
www.redstonegrp.com

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

Paint-Riter™ Valve Action Paint Marker Fluorescent Yellow, Fluorescent Green, Fluorescent Orange, Fluorescent Pink, Ultra Violet

Safety Data Sheet

according to Regulation (EU) 2015/830
Issue date: 9/23/2020 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Product name : Paint-Riter™ Valve Action Paint Marker Fluorescent Yellow, Fluorescent Green, Fluorescent Orange, Fluorescent Pink, Ultra Violet
Other means of identification : UFI
Fluorescent Yellow: NVQ6-95CS-HSKC-TQ1C
Fluorescent Green: A2R6-95RK-4SKC-4D6G
Fluorescent Orange: 87R6-A54C-RSKC-F2CM
Fluorescent Pink: GDR6-A5H5-CSKA-SRHR
Ultra Violet: RKR6-A5VX-YSKA-3EPV

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category : Professional use
Use of the substance/mixture : Marking.

1.2.2. Uses advised against

Restrictions on use : No additional information available

1.3. Details of the supplier of the safety data sheet

LA-CO Industries Europe S.A.S.

Parc Industriel de la Plaine de

l'Ain - Allée des Combes.

01150.BLYES.France.

Phone: +33 (0)4 74 46 23 23

Fax: +33 (0)4 74 46 23 29

E-mail: info@eu.laco.com

Web: http://www.markal.com

1.4. Emergency telephone number

Emergency number : 24-hour emergency: CHEMTREC- U.S. : 1-800-424-9300 International: +1-703-527-3887;
全国应急中心 0532 8388 9090



EU Member State	Officieel adviesorgaan	Adres	Noodnummer
AUSTRIA	Vergiftungsinformationszentrale (Poisons Information Centre)	Allgemeines Krankenhaus Waehringer Geurtel 18-20 1090 Wien	+43 1 406 43 43
BELARUS	The Belarus Republican Poisons Centre	Kizhevatova str. 58 Minsk 220115	+375 (0)17 201 9158
BELGIUM	Centre Anti-Poisons/Antigifocentrum c/o Hôpital Central de la Base - Reine Astrid	Rue Bruyn 1 B -1120 Bruxelles/Brussel	+32 70 245 245
BULGARIA	Национален токсикологичен информационен център National Clinical Toxicology Centre, Emergency Medical Institute "Pirogov"	21 Tottleben Boulevard 1606 SOFIA	+359 2 9154 409
CROATIA	Poisons Control Centre Institute of Medical Research & Occupational Health	Ksaverska Cesta 2 P.O. Box 291 HR-10000 Zagreb	+385 1 234 8342
CZECH REPUBLIC	Toxikologické informační středisko Clinic For Occupational Medicine, 1st Medical Faculty, Charles University	Na Bojišti 1 120 00 Praha 2	+42 2 2491 9293 +42 2 2491 5402
DENMARK	Giftlinjen Bispebjerg Hospital	Bispebjerg Bakke 23, 60, 1 DK-2400 København NV	+45 82 12 12 12 +45 35 31 55 55
ESTONIA	Mürgistusteabekeskus	Gonsiori 29 15027 Tallinn	+372 626 93 90
FINLAND	Myrkytystietokeskus	P.O.B 340 (Haartmaninkatu 4) HUS SF - 00029 Helsinki	+358 9 471 977
FRANCE	ORFILA		+33 1 45 42 59 59
GERMANY	Berliner Betrieb für Zentrale Gesundheitliche Aufgaben	Oranienburger Strasse 285 13437 Berlin	+49 30 19240
GERMANY	Informations und Beratungszentrum für Vergiftungsfälle	Kirrberger Straße, Gebäude 9 D-66421 Homburg/Saar	+49 6841 19240

Paint-Riter™ Valve Action Paint Marker Fluorescent Yellow, Fluorescent Green, Fluorescent Orange, Fluorescent Pink, Ultra Violet

Safety Data Sheet

according to Regulation (EU) 2015/830

EU Member State	Officieel adviesorgaan	Adres	Noodnummer
GERMANY	Beratungstelle bei Vergiftungen, Klinische Toxikologie und Beratungsstelle bei Vergiftungen	Langenbeckstrasse 1 55131 Mainz	+49 6131 19240
GREECE	Poisons Information Centre	11527 Athens	+30 10 779 3777
HUNGARY	Országos Kémiai Biztonsági Intézet (National Institute of Chemical Safety) Egészségügyi Toxikológiai Tájékoztató Szolgálat (Health Toxicological Information Service)	1437 Budapest PO Box 839 1097 Budapest, Nagyvárad tér 2	+36 80 20 11 99
ICELAND	Eitrunarmiðstöðin	Eitrunarmiðstöðin 108 Reykjavik	+354 543 22 22
IRELAND	National Poisons Information Centre	Beaumont Hospital PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2166
LATVIA	Valsts Toksikoloģijas centra Saindēšanās un zāļu informācijas centrs	2 Hipocrate Street LV 1038 Riga	+371 67 04 24 73
LITHUANIA	Apsinuodijimų kontrolės ir informacijos biuras	Siltnamiu 29 2043 Vilnius	+370 5 236 20 52/+370 687 53 378
MALTA	Medicines & Poisons Info Office	Mater Dei Hospital, Msida MSD 2090 Malta	25450000
NETHERLANDS	Nationaal Vergiftigingen Informatie Centrum National Institute for Public Health and the Environment, NB this service is only available to health professionals	Huispostnummer B.00.118, PO Box 85500 3508 GA Utrecht	+31 30 274 88 88
PORTUGAL	Centro de Informação Antivenenos Instituto Nacional de Emergência Médica (INEM)	Rua Almirante Barroso, 36 1000-013 Lisboa	808 250 143 (for use only in Portugal), +351 21 330 3284
ROMANIA	Biroul pentru Regulamentul Sanitar International si Informare Toxicologica	Str. Dr. Leonte Anastasievici Nr.1-3, Sector 5 50463 Bucuresti	+40 21 318 36 06
SLOVAKIA	Národné toxikologické informačné centrum University Hospital Bratislava	Limbová 5 833 05 Bratislava	+421 2 54 77 4 166
SPAIN	Servicio de Información Toxicológica Instituto Nacional de Toxicología, Departamento de Madrid	Calle Luis Cabrera 9 E-28002 Madrid	+34 91 562 04 20
SWEDEN	Giftinformationscentralen Swedish Poisons Information Centre, Karolinska Hospital	Box 60 500 SE-171 76 Stockholm	+46 8 33 12 31 (International) 112 (National)
SWITZERLAND	Centre Suisse d'Information Toxicologique	Freiestrasse 16 Postfach CH-8028 Zurich	+41 44 251 51 51 (International) 145 (National)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, Category 2 H225

Specific target organ toxicity — Single exposure, Category 3, Narcosis H336

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS02

GHS07

Signal word (CLP)

: Danger

Hazardous ingredients

: 1-Methoxy-2-propanol

Hazard statements (CLP)

: H225 - Highly flammable liquid and vapour.
H336 - May cause drowsiness or dizziness.

Precautionary statements (CLP)

: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
No smoking.
P233 - Keep container tightly closed.
P240 - Ground and bond container and receiving equipment.

Paint-Riter™ Valve Action Paint Marker Fluorescent Yellow, Fluorescent Green, Fluorescent Orange, Fluorescent Pink, Ultra Violet

Safety Data Sheet

according to Regulation (EU) 2015/830

P241 - Use explosion-proof electrical/ventilating/lighting equipment.
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water .
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 - Call a POISON CENTRE or doctor if you feel unwell.
P370+P378 - In case of fire: Use media other than water to extinguish.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P403+P235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

PBT: not yet assessed

vPvB: not yet assessed

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
1-Methoxy-2-propanol	(CAS-No.) 107-98-2 (EC-No.) 203-539-1 (EC Index-No.) 603-064-00-3	20 - 70	Flam. Liq. 3, H226 STOT SE 3, H336
zinc sulphide	(CAS-No.) 1314-98-3 (EC-No.) 215-251-3	0 - 25	Not classified
ethanol	(CAS-No.) 64-17-5 (EC-No.) 200-578-6 (EC Index-No.) 603-002-00-5	1 - 10	Flam. Liq. 2, H225
Isopropanol	(CAS-No.) 67-63-0 (EC-No.) 200-661-7 (EC Index-No.) 603-117-00-0	0.1 - 3	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Ethyl acetate	(CAS-No.) 141-78-6 (EC-No.) 205-500-4 (EC Index-No.) 607-022-00-5	05 - 2.5	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
4-Methyl-7-diethylaminocoumarin	(CAS-No.) 91-44-1 (EC-No.) 202-068-9	0 - 2	Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319
(2-Methoxymethylethoxy)-propanol	(CAS-No.) 34590-94-8 (EC-No.) 252-104-2	0.1 - 1	Not classified
propyl acetate (Note C)	(CAS-No.) 109-60-4 (EC-No.) 203-686-1 (EC Index-No.) 607-024-00-6	<0.5	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
2-methoxy-1-methylethyl acetate	(CAS-No.) 108-65-6 (EC-No.) 203-603-9 (EC Index-No.) 607-195-00-7	0 - 0.5	Flam. Liq. 3, H226
Butyl acetate	(CAS-No.) 123-86-4 (EC-No.) 204-658-1 (EC Index-No.) 607-025-00-1	<0.1	Flam. Liq. 3, H226 STOT SE 3, H336
2-methoxypropyl acetate	(CAS-No.) 70657-70-4 (EC-No.) 274-724-2 (EC Index-No.) 607-251-00-0	<0.1	Flam. Liq. 3, H226 Repr. 1B, H360D STOT SE 3, H335

Paint-Riter™ Valve Action Paint Marker Fluorescent Yellow, Fluorescent Green, Fluorescent Orange, Fluorescent Pink, Ultra Violet

Safety Data Sheet

according to Regulation (EU) 2015/830

2-methylpropan-1-ol	(CAS-No.) 78-83-1 (EC-No.) 201-148-0 (EC Index-No.) 603-108-00-1	<0.1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336
Methanol	(CAS-No.) 67-56-1 (EC-No.) 200-659-6 (EC Index-No.) 603-001-00-X	<0.1	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation:dust,mist), H331 STOT SE 1, H370
formaldehyde (Note B)(Note D)	(CAS-No.) 50-00-0 (EC-No.) 200-001-8 (EC Index-No.) 605-001-00-5	<0.1	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Inhalation:dust,mist), H331 Skin Corr. 1B, H314 Skin Sens. 1, H317 Muta. 2, H341 Carc. 1B, H350
Chromium	(CAS-No.) 7440-47-3 (EC-No.) 231-157-5	<0.1	Not classified
Acetophenone	(CAS-No.) 98-86-2 (EC-No.) 202-708-7 (EC Index-No.) 606-042-00-1	<0.1	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319

Specific concentration limits:

Name	Product identifier	Specific concentration limits
Methanol	(CAS-No.) 67-56-1 (EC-No.) 200-659-6 (EC Index-No.) 603-001-00-X	(3 ≤C < 10) STOT SE 2, H371 (10 ≤C < 100) STOT SE 1, H370
formaldehyde	(CAS-No.) 50-00-0 (EC-No.) 200-001-8 (EC Index-No.) 605-001-00-5	(0.2 ≤C < 100) Skin Sens. 1, H317 (5 ≤C < 100) STOT SE 3, H335 (5 ≤C < 25) Eye Irrit. 2, H319 (5 ≤C < 25) Skin Irrit. 2, H315 (25 ≤C < 100) Skin Corr. 1B, H314

Note B : Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid ... %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.

Note C : Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

Note D : Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed in Part 3. However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the supplier must state on the label the name of the substance followed by the words 'non-stabilised'.

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
First-aid measures after skin contact	: Wash skin thoroughly with mild soap and water. Take off contaminated clothing and wash it before reuse.
First-aid measures after eye contact	: In case of contact, immediately flush eyes with plenty of water.
First-aid measures after ingestion	: Do NOT induce vomiting. Get medical advice/attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation : May cause drowsiness or dizziness.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Paint-Riter™ Valve Action Paint Marker Fluorescent Yellow, Fluorescent Green, Fluorescent Orange, Fluorescent Pink, Ultra Violet

Safety Data Sheet

according to Regulation (EU) 2015/830

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide. Dry chemical. Inert gas. Foam. Water spray. Water fog.
Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Highly flammable liquid and vapour. Burning produces irritating, toxic and noxious fumes. Flammable vapours may accumulate in the container. Heavier than air, vapours may travel long distances along ground, ignite and flash back to source.

Explosion hazard : Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.

Hazardous decomposition products in case of fire : Carbon oxides (CO, CO₂). Hydrocarbon.

5.3. Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire. Do not allow run-off from fire fighting to enter drains or water courses. Eliminate all ignition sources if safe to do so.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Use self-contained breathing apparatus. EN469.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking. Avoid all eye and skin contact and do not breathe vapour and mist.

6.1.1. For non-emergency personnel

Protective equipment : Refer to section 8.2.
Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Refer to section 8.2.
Emergency procedures : Stop leak if safe to do so. Ventilate area.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Eliminate all ignition sources. Stop the flow of material, if this is without risk.
Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Take up in non-combustible absorbent material and shove into container for disposal.

6.4. Reference to other sections

Section 13: disposal information. Section 7: safe handling. Section 8: personal protective equipment.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapours are flammable.
Precautions for safe handling : No open flames. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Avoid all eye and skin contact and do not breathe vapour and mist. Use only outdoors or in a well-ventilated area.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed. Keep away from open flames, hot surfaces and sources of ignition.
Incompatible products : Strong oxidizers.
Incompatible materials : Heat sources.
Heat and ignition sources : Keep away from heat, sparks and flame.
Prohibitions on mixed storage : Keep away from incompatible materials.
Storage area : Store in dry, cool, well-ventilated area.

7.3. Specific end use(s)

Marking.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

1-Methoxy-2-propanol (107-98-2)

EU - Occupational Exposure Limits

Local name	1-Methoxypropanol-2
------------	---------------------

Paint-Riter™ Valve Action Paint Marker Fluorescent Yellow, Fluorescent Green, Fluorescent Orange, Fluorescent Pink, Ultra Violet

Safety Data Sheet

according to Regulation (EU) 2015/830

1-Methoxy-2-propanol (107-98-2)	
IOELV TWA (mg/m ³)	375 mg/m ³
IOELV TWA (ppm)	100 ppm
IOELV STEL (mg/m ³)	568 mg/m ³
IOELV STEL (ppm)	150 ppm
Notes	Skin
Austria - Occupational Exposure Limits	
MAK [mg/m ³]	187 mg/m ³
MAK Daily average value (ppm)	50 ppm
MAK Short time value [mg/m ³]	187 mg/m ³
MAK Short time value [ppm]	50 ppm
Remark (AT)	(gemessen als Momentanwert), (H)
Belgium - Occupational Exposure Limits	
Limit value [mg/m ³]	375 mg/m ³
Limit value [ppm]	100 ppm
Short time value [mg/m ³]	568 mg/m ³
Short time value [ppm]	150 ppm
Remark (BE)	D
Czech Republic - Occupational Exposure Limits	
Local name	1-Methoxy-2-propanol
Expoziční limity (PEL) (mg/m ³)	270 mg/m ³
Expoziční limity (PEL) (ppm)	73.17 ppm
Expoziční limity (NPK-P) (mg/m ³)	550 mg/m ³
Expoziční limity (NPK-P) (ppm)	149.05 ppm
Remark (CZ)	D
Denmark - Occupational Exposure Limits	
Local name	1-Methoxy-2-propanol (Propylenglycolmonomethylether)
Grænsevædi (8 timer) (mg/m ³)	185 mg/m ³
Grænsevædi (8 timer) (ppm)	50 ppm
Grænsevædi (STEL) (mg/m ³)	370 mg/m ³
Grænsevædi (STEL) (ppm)	100 ppm
Anmærkninger (DK)	E (betyder, at stoffet har en EF-grænseværdi)
Finland - Occupational Exposure Limits	
Local name	1-Metoksi-2-propanoli
HTP-arvo (8h) (mg/m ³)	370 mg/m ³
HTP-arvo (8h) (ppm)	100 ppm
HTP-arvo (15 min)	560 mg/m ³
HTP-arvo (15 min) (ppm)	150 ppm
Huomautus (FI)	iho
France - Occupational Exposure Limits	
Local name	Ether méthylique du propylène-glycol (1-Méthoxy-2-propanol)
VME [mg/m ³]	188 mg/m ³
VME [ppm]	50 ppm

Paint-Riter™ Valve Action Paint Marker Fluorescent Yellow, Fluorescent Green, Fluorescent Orange, Fluorescent Pink, Ultra Violet

Safety Data Sheet

according to Regulation (EU) 2015/830

1-Methoxy-2-propanol (107-98-2)	
VLE [mg/m ³]	375 mg/m ³
VLE [ppm]	100 ppm
Note (FR)	Peau
Germany - Occupational Exposure Limits (TRGS 900)	
TRGS 900 Local name	1-Methoxy-2-propanol
Occupational exposure limit value (mg/m ³)	370 mg/m ³
Occupational exposure limit value (ppm)	100 ppm
Limitation of exposure peaks (mg/m ³)	740 mg/m ³
Limitation of exposure peaks (ppm)	200 ppm
TRGS 900 Remark	DFG,EU,Y
Hungary - Occupational Exposure Limits	
Local name	1-METOXIPROPÁN-2-OL
AK-érték	375 mg/m ³
CK-érték	568 mg/m ³
Megjegyzések (HU)	b; EU1
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m ³)	375 mg/m ³
OEL (8 hours ref) (ppm)	100 ppm
OEL (15 min ref) (mg/m ³)	568 mg/m ³
OEL (15 min ref) (ppm)	150 ppm
Italy - Occupational Exposure Limits	
Local name	Metossipropanolo-2,1-
OEL TWA (mg/m ³)	375 mg/m ³
OEL TWA (ppm)	100 ppm
OEL STEL (mg/m ³)	568 mg/m ³
OEL STEL (ppm)	150 ppm
Latvia - Occupational Exposure Limits	
Local name	1-Metoksi-2-propanols (propilēnglikola monometilēteris, monopropilēnglikolmetilēteris)
OEL TWA (mg/m ³)	375 mg/m ³
OEL TWA (ppm)	100 ppm
OEL STEL (mg/m ³)	568 mg/m ³
OEL STEL (ppm)	150 ppm
Lithuania - Occupational Exposure Limits	
IPRV (mg/m ³)	190 mg/m ³
IPRV (ppm)	50 ppm
TPRV (mg/m ³)	300 mg/m ³
TPRV (ppm)	75 ppm
Netherlands - Occupational Exposure Limits	
Local name	1-Methoxy-2-propanol
Grenswaarde TGG 8H (mg/m ³)	375 mg/m ³
Grenswaarde TGG 15MIN (mg/m ³)	563 mg/m ³
Remark (MAC)	(H)

Paint-Riter™ Valve Action Paint Marker Fluorescent Yellow, Fluorescent Green, Fluorescent Orange, Fluorescent Pink, Ultra Violet

Safety Data Sheet

according to Regulation (EU) 2015/830

1-Methoxy-2-propanol (107-98-2)	
Poland - Occupational Exposure Limits	
Local name	1-Metoksypropan-2-ol
NDS (mg/m ³)	180 mg/m ³
NDSch (mg/m ³)	360 mg/m ³
Portugal - Occupational Exposure Limits	
Local name	1-Metoxi-2-propanol (PGME)
OEL TWA (ppm)	50 ppm
OEL STEL (ppm)	100 ppm
Slovakia - Occupational Exposure Limits	
Local name	1-Metoxypropán-2-ol (propylénglykolmonometyléter)
NPHV (priemerná) (mg/m ³)	375 mg/m ³
NPHV (priemerná) (ppm)	100 ppm
OEL STEL (mg/m ³)	568 mg/m ³
OEL STEL (ppm)	150 ppm
Upozornenie (SK)	(K)
Slovenia - Occupational Exposure Limits	
Local name	1-metoksi-2-propanol (propilenglikolmonometil eter)
OEL TWA (mg/m ³)	375 mg/m ³
OEL TWA (ppm)	100 ppm
OEL STEL (mg/m ³)	562.5 mg/m ³
OEL STEL (ppm)	150 ppm
Spain - Occupational Exposure Limits	
Local name	1-Metoxipropan-2-ol (Éter 1-metilico de propilenglicol)
VLA-ED (mg/m ³)	375 mg/m ³
VLA-ED (ppm)	100 ppm
VLA-EC (mg/m ³)	568 mg/m ³
VLA-EC (ppm)	150 ppm
Notes	vía dérmica,VLI
Sweden - Occupational Exposure Limits	
Local name	1-Metoxi-2-propanol
nivågränsvärde (NVG) (mg/m ³)	190 mg/m ³
nivågränsvärde (NVG) (ppm)	50 ppm
kortidsvärde (KTV) (mg/m ³)	300 mg/m ³
kortidsvärde (KTV) (ppm)	75 ppm
Anmärkning (SE)	H
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m ³)	375 mg/m ³
WEL TWA (ppm)	100 ppm
WEL STEL (mg/m ³)	560 mg/m ³
WEL STEL [ppm]	150 ppm
Norway - Occupational Exposure Limits	
Local name	1-metoksy-2-propanol (Propylénglykolmonometyleter)

Paint-Riter™ Valve Action Paint Marker Fluorescent Yellow, Fluorescent Green, Fluorescent Orange, Fluorescent Pink, Ultra Violet

Safety Data Sheet

according to Regulation (EU) 2015/830

1-Methoxy-2-propanol (107-98-2)	
Grænseverðier (AN) (mg/m ³)	180 mg/m ³
Grænseverðier (AN) (ppm)	50 ppm
Merknader (NO)	H
Switzerland - Occupational Exposure Limits	
VME [mg/m ³]	360 mg/m ³
MAK (ppm)	100 ppm 20 ppm (urina; fine dell'esposizione / del turno)
KZGW (mg/m ³)	720 mg/m ³
KZGW (ppm)	200 ppm

Ethyl acetate (141-78-6)	
EU - Occupational Exposure Limits	
Local name	Ethyl acetate
IOELV TWA (mg/m ³)	734 mg/m ³
IOELV TWA (ppm)	200 ppm
IOELV STEL (mg/m ³)	1468 mg/m ³
IOELV STEL (ppm)	400 ppm
Regulatory reference	COMMISSION DIRECTIVE (EU) 2017/164
Austria - Occupational Exposure Limits	
MAK [mg/m ³]	1050 mg/m ³
MAK Daily average value (ppm)	300 ppm
MAK Short time value [mg/m ³]	2100 mg/m ³ max. 8x5 min./Schicht (gemessen als Momentanwert)
MAK Short time value [ppm]	600 ppm max. 8x5 min./Schicht (gemessen als Momentanwert)
Belgium - Occupational Exposure Limits	
Limit value [mg/m ³]	1461 mg/m ³
Limit value [ppm]	400 ppm
Czech Republic - Occupational Exposure Limits	
Local name	Ethylacetát
Expoziční limity (PEL) (mg/m ³)	700 mg/m ³
Expoziční limity (PEL) (ppm)	191 ppm
Expoziční limity (NPK-P) (mg/m ³)	900 mg/m ³
Expoziční limity (NPK-P) (ppm)	246 ppm
Remark (CZ)	I - dráždí sliznice (oči, dýchací cesty), respektive kůži.
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 41/2020 Sb.)
Denmark - Occupational Exposure Limits	
Local name	Ethylacetat (Eddikesyreethylester)
Grænsevædi (8 timer) (mg/m ³)	540 mg/m ³
Grænsevædi (8 timer) (ppm)	150 ppm
Grænsevædi (STEL) (mg/m ³)	1080 mg/m ³
Grænsevædi (STEL) (ppm)	300 ppm
Anmærkninger (DK)	E (betyder, at stoffet har en EF-grænseværdi)
Regulatory reference	BEK nr 1458 af 13/12/2019

Paint-Riter™ Valve Action Paint Marker Fluorescent Yellow, Fluorescent Green, Fluorescent Orange, Fluorescent Pink, Ultra Violet

Safety Data Sheet

according to Regulation (EU) 2015/830

Ethyl acetate (141-78-6)	
Finland - Occupational Exposure Limits	
Local name	Etyyliasettaatti
HTP-arvo (8h) (mg/m ³)	730 mg/m ³
HTP-arvo (8h) (ppm)	200 ppm
HTP-arvo (15 min)	1470 mg/m ³
HTP-arvo (15 min) (ppm)	400 ppm
Regulatory reference	HTP-ARVOT 2018 (Sosiaali- ja terveystieteiden ministeriö)
France - Occupational Exposure Limits	
Local name	Acétate d'éthyle
VME [mg/m ³]	734 mg/m ³
VME [ppm]	200 ppm
VLE [mg/m ³]	1468 mg/m ³
VLE [ppm]	400 ppm
Note (FR)	Valeurs réglementaires contraignantes
Regulatory reference	Article R4412-149 du Code du travail (réf.: INRS ED 984, 2016; Décret n° 2019-1487)
Germany - Occupational Exposure Limits (TRGS 900)	
TRGS 900 Local name	Ethylacetat
Occupational exposure limit value (mg/m ³)	730 mg/m ³
Occupational exposure limit value (ppm)	200 ppm
Peak exposure limitation factor	2(I)
TRGS 900 Remark	DFG;EU;Y
TRGS 900 Regulatory reference	TRGS900
Hungary - Occupational Exposure Limits	
Local name	ETIL-ACETÁT
AK-érték	734 mg/m ³
CK-érték	1468 mg/m ³
Megjegyzések (HU)	i (ingerlő anyag, amely izgatja a bőrt, nyálkahártyát, szemet vagy mindhárom), sz (Túlérzékenységet okozó (szenzibilizáló) tulajdonságú anyag. Az anyagra érzékeny egyéneken „túlérzékenységen” alapuló bőr-, légzőrendszeri, esetleg más szervet/szervrendszert károsító megbetegedést okozhat); EU4 (2017/164 EU irányelvben közölt érték); N (Irritáló anyagok, egyszerű fojtógázok, csekély egészségkárosító hatással bíró anyagok)
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (ppm)	200 ppm
OEL (15 min ref) (ppm)	400 ppm
Latvia - Occupational Exposure Limits	
Local name	Etiķskābes etilesteris (etilacetāts)
OEL TWA (mg/m ³)	200 mg/m ³ 54 mg/m ³ 1468 mg/m ³ 400 mg/m ³
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2018. gada 10. jūlijā noteikumiem Nr. 407)

Paint-Riter™ Valve Action Paint Marker Fluorescent Yellow, Fluorescent Green, Fluorescent Orange, Fluorescent Pink, Ultra Violet

Safety Data Sheet

according to Regulation (EU) 2015/830

Ethyl acetate (141-78-6)	
Lithuania - Occupational Exposure Limits	
IPRV (mg/m ³)	500 mg/m ³
IPRV (ppm)	150 ppm
NRV (mg/m ³)	1100 mg/m ³
NRV (ppm)	300 ppm
Netherlands - Occupational Exposure Limits	
Local name	Ethylacetaat
Grenswaarde TGG 8H (mg/m ³)	734 mg/m ³
Grenswaarde TGG 15MIN (mg/m ³)	1468 mg/m ³
Regulatory reference	Arbeidsomstandighedenregeling 2020
Poland - Occupational Exposure Limits	
Local name	Octan etylu
NDS (mg/m ³)	734 mg/m ³
NDSCh (mg/m ³)	1468 mg/m ³
Regulatory reference	Dz. U. 2018 poz. 1286
Portugal - Occupational Exposure Limits	
Local name	Acetato de etilo
OEL TWA (ppm)	400 ppm
Regulatory reference	Norma Portuguesa NP 1796:2014
Slovakia - Occupational Exposure Limits	
Local name	Etylacetát (octan etylový)
NPHV (priemerná) (mg/m ³)	734 mg/m ³
NPHV (priemerná) (ppm)	200 ppm
OEL STEL (mg/m ³)	1468 mg/m ³
OEL STEL (ppm)	400 ppm
Regulatory reference	Nariadenie vlády č. 33/2018 Z. z.
Slovenia - Occupational Exposure Limits	
Local name	etilacetat
OEL TWA (mg/m ³)	734 mg/m ³
OEL TWA (ppm)	200 ppm
OEL STEL (mg/m ³)	1468 mg/m ³
OEL STEL (ppm)	400 ppm
Remark (SI)	Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti), EU
Regulatory reference	Uradni list RS, št. 78/2019 z dne 20.12.2019
Spain - Occupational Exposure Limits	
Local name	Acetato de etilo
VLA-ED (mg/m ³)	734 mg/m ³
VLA-ED (ppm)	200 ppm
VLA-EC (mg/m ³)	1468 mg/m ³
VLA-EC (ppm)	400 ppm
Notes	VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo).

Paint-Riter™ Valve Action Paint Marker Fluorescent Yellow, Fluorescent Green, Fluorescent Orange, Fluorescent Pink, Ultra Violet

Safety Data Sheet

according to Regulation (EU) 2015/830

Ethyl acetate (141-78-6)	
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
Sweden - Occupational Exposure Limits	
Local name	Etylacetat
nivågränsvärde (NVG) (mg/m ³)	550 mg/m ³
nivågränsvärde (NVG) (ppm)	150 ppm
kortidsvärde (KTV) (mg/m ³)	1100 mg/m ³
kortidsvärde (KTV) (ppm)	300 ppm
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m ³)	730 mg/m ³
WEL TWA (ppm)	200 ppm
WEL STEL (mg/m ³)	1460 mg/m ³
WEL STEL [ppm]	400 ppm
Norway - Occupational Exposure Limits	
Local name	Etylacetat
Grenseverdier (AN) (mg/m ³)	734 mg/m ³
Grenseverdier (AN) (ppm)	200 ppm
Grenseverdier (Korttidsverdi) (mg/m ³)	1468 mg/m ³
Grenseverdier (Korttidsverdi) (ppm)	400 ppm
Merknader (NO)	E: EU har en veiledende grenseverdi for stoffet.
Regulatory reference	FOR-2020-04-06-695
Switzerland - Occupational Exposure Limits	
VME [mg/m ³]	1400 mg/m ³
MAK (ppm)	400 ppm
KZGW (mg/m ³)	2800 mg/m ³ max. 4x15 min./turno
KZGW (ppm)	800 ppm max. 4x15 min./turno
Methanol (67-56-1)	
EU - Occupational Exposure Limits	
Local name	Methanol
IOELV TWA (mg/m ³)	260 mg/m ³
IOELV TWA (ppm)	200 ppm
Notes	Skin
Austria - Occupational Exposure Limits	
MAK [mg/m ³]	260 mg/m ³ (H)
MAK Daily average value (ppm)	200 ppm (H)
MAK Short time value [mg/m ³]	1040 mg/m ³ max. 4x15 min./Schicht, (H)
MAK Short time value [ppm]	800 ppm max. 4x15 min./Schicht, (H)
Belgium - Occupational Exposure Limits	
Limit value [mg/m ³]	266 mg/m ³
Limit value [ppm]	200 ppm
Short time value [mg/m ³]	333 mg/m ³

Paint-Riter™ Valve Action Paint Marker Fluorescent Yellow, Fluorescent Green, Fluorescent Orange, Fluorescent Pink, Ultra Violet

Safety Data Sheet

according to Regulation (EU) 2015/830

Methanol (67-56-1)	
Short time value [ppm]	250 ppm
Remark (BE)	D
Czech Republic - Occupational Exposure Limits	
Local name	Methanol
Expoziční limity (PEL) (mg/m ³)	250 mg/m ³
Expoziční limity (PEL) (ppm)	188.5 ppm
Expoziční limity (NPK-P) (mg/m ³)	1000 mg/m ³
Expoziční limity (NPK-P) (ppm)	754 ppm
Remark (CZ)	D
Denmark - Occupational Exposure Limits	
Local name	Methanol (Methylalkohol)
Grænsevædi (8 timer) (mg/m ³)	260 mg/m ³
Grænsevædi (8 timer) (ppm)	200 ppm
Grænsevædi (STEL) (mg/m ³)	520 mg/m ³
Grænsevædi (STEL) (ppm)	400 ppm
Anmærkninger (DK)	H
Finland - Occupational Exposure Limits	
Local name	Metanoli
HTP-arvo (8h) (mg/m ³)	270 mg/m ³
HTP-arvo (8h) (ppm)	200 ppm
HTP-arvo (15 min)	330 mg/m ³
HTP-arvo (15 min) (ppm)	250 ppm
Huomautus (FI)	iho
France - Occupational Exposure Limits	
Local name	Alcool méthylique (méthanol)
VME [mg/m ³]	260 mg/m ³
VME [ppm]	200 ppm
VLE [mg/m ³]	1300 mg/m ³
VLE [ppm]	1000 ppm
Note (FR)	Peau
Germany - Occupational Exposure Limits (TRGS 900)	
TRGS 900 Local name	Methanol
Occupational exposure limit value (mg/m ³)	270 mg/m ³
Occupational exposure limit value (ppm)	200 ppm
Limitation of exposure peaks (mg/m ³)	1080 mg/m ³
Limitation of exposure peaks (ppm)	800 ppm
TRGS 900 Remark	H
Germany - Biological limit values (TRGS 903)	
TRGS 903 Biological limit value	30 mg/l
TRGS 903 Remark	(Urin; bei Langzeitexposition/Expositionsende bzw. Schichtende)
Hungary - Occupational Exposure Limits	
Local name	METIL-ALKOHOL

Paint-Riter™ Valve Action Paint Marker Fluorescent Yellow, Fluorescent Green, Fluorescent Orange, Fluorescent Pink, Ultra Violet

Safety Data Sheet

according to Regulation (EU) 2015/830

Methanol (67-56-1)	
AK-érték	260 mg/m ³
Megjegyzések (HU)	b, i, II.1.
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m ³)	260 mg/m ³
OEL (8 hours ref) (ppm)	200 ppm
Notes (IE)	SK
Italy - Occupational Exposure Limits	
Local name	Metanolo
OEL TWA (mg/m ³)	260 mg/m ³
OEL TWA (ppm)	200 ppm
Latvia - Occupational Exposure Limits	
Local name	Metanols (metilspirts, karbinols)
OEL TWA (mg/m ³)	260 mg/m ³
OEL TWA (ppm)	200 ppm
Lithuania - Occupational Exposure Limits	
IPRV (mg/m ³)	260 mg/m ³
IPRV (ppm)	200 ppm
Remark (LT)	O
Netherlands - Occupational Exposure Limits	
Local name	Methanol
Grenswaarde TGG 8H (mg/m ³)	133 mg/m ³
Remark (MAC)	H
Poland - Occupational Exposure Limits	
Local name	Metanol (metylowy alkohol)
NDS (mg/m ³)	100 mg/m ³
NDSch (mg/m ³)	300 mg/m ³
Portugal - Occupational Exposure Limits	
Local name	Metanol (Álcool metílico)
OEL TWA (ppm)	200 ppm
OEL STEL (ppm)	250 ppm
Slovakia - Occupational Exposure Limits	
Local name	Metylalkohol (metanol)
NPHV (priemerná) (mg/m ³)	260 mg/m ³ poznámka K
NPHV (priemerná) (ppm)	200 ppm poznámka K 30 ppm (Metanol)
Upozornenie (SK)	K - znamená, že faktor môže byť ľahko absorbovaný kožou
Slovenia - Occupational Exposure Limits	
Local name	metanol (metilalkohol)
OEL TWA (mg/m ³)	260 mg/m ³
OEL TWA (ppm)	200 ppm
Spain - Occupational Exposure Limits	
Local name	Metanol (Alcohol metílico)

Paint-Riter™ Valve Action Paint Marker Fluorescent Yellow, Fluorescent Green, Fluorescent Orange, Fluorescent Pink, Ultra Violet

Safety Data Sheet

according to Regulation (EU) 2015/830

Methanol (67-56-1)	
VLA-ED (mg/m ³)	266 mg/m ³ vía dérmica,VLB,VLI
VLA-ED (ppm)	200 ppm vía dérmica,VLB,VLI 15 ppm F, I "(Alcohol metílico en orina; Final de la jornada laboral 2)"
VLA-EC (mg/m ³)	333 mg/m ³ vía dérmica,VLB,VLI
VLA-EC (ppm)	250 ppm vía dérmica,VLB,VLI
Notes	Vía dérmica (Indica que, en las exposiciones a esta sustancia, la aportación por la vía cutánea puede resultar significativa para el contenido corporal total si no se adoptan medidas para prevenir la absorción. En estas situaciones, es aconsejable la utilización del control biológico para poder cuantificar la cantidad global absorbida del contaminante. Para más información véase el Apartado 5 de este documento), VLB® (Agente químico que tiene Valor Límite Biológico específico en este documento), VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo. Todos estos agentes químicos figuran al menos en una de las directivas de valores límite indicativos publicadas hasta ahora (ver Anexo C. Bibliografía). Los estados miembros disponen de un tiempo fijado en dichas directivas para su transposición a los valores límites de cada país miembro. Una vez adoptados, estos valores tienen la misma validez que el resto de los valores adoptados por el país).
Sweden - Occupational Exposure Limits	
Local name	Metanol
nivågränsvärde (NVG) (mg/m ³)	250 mg/m ³
nivågränsvärde (NVG) (ppm)	200 ppm
kortidsvärde (KTV) (mg/m ³)	350 mg/m ³
kortidsvärde (KTV) (ppm)	250 ppm
Anmärkning (SE)	H
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m ³)	266 mg/m ³
WEL TWA (ppm)	200 ppm
WEL STEL (mg/m ³)	333 mg/m ³
WEL STEL [ppm]	250 ppm
Remark (WEL)	(Sk)
Norway - Occupational Exposure Limits	
Local name	Metanol
Grenseverdier (AN) (mg/m ³)	130 mg/m ³
Grenseverdier (AN) (ppm)	100 ppm
Merknader (NO)	H
Switzerland - Occupational Exposure Limits	
VME [mg/m ³]	260 mg/m ³
MAK (ppm)	200 ppm 30 ppm (urina; in caso di esposizione per molto tempo/fine dell'esposizione / del turno)
KZGW (mg/m ³)	1040 mg/m ³ max. 4x15 min./turno
KZGW (ppm)	800 ppm max. 4x15 min./turno
formaldehyde (50-00-0)	
EU - Occupational Exposure Limits	
Local name	Formaldehyde
IOELV TWA (mg/m ³)	0.37 mg/m ³ (BOEL) 0.62 mg/m ³ (Limit value for the health care, funeral and embalming sectors until 11 July 2024)

Paint-Riter™ Valve Action Paint Marker Fluorescent Yellow, Fluorescent Green, Fluorescent Orange, Fluorescent Pink, Ultra Violet

Safety Data Sheet

according to Regulation (EU) 2015/830

formaldehyde (50-00-0)	
IOELV TWA (ppm)	0.3 ppm (BOEL) 0.5 ppm (Limit value for the health care, funeral and embalming sectors until 11 July 2024)
IOELV STEL (mg/m ³)	0.74 mg/m ³ (BOEL)
IOELV STEL (ppm)	0.6 ppm (BOEL)
Notes	Dermal sensitisation
Regulatory reference	DIRECTIVE (EU) 2019/983 (amending Directive 2004/37/EC)
Austria - Occupational Exposure Limits	
MAK [mg/m ³]	0.6 mg/m ³
MAK Daily average value (ppm)	0.5 ppm
MAK Short time value [mg/m ³]	0.6 mg/m ³
MAK Short time value [ppm]	0.5 ppm
Remark (AT)	(gemessen als Momentanwert), (H,Sh,III B)
Czech Republic - Occupational Exposure Limits	
Local name	Formaldehyd (Methanal)
Expoziční limity (PEL) (mg/m ³)	0.5 mg/m ³
Expoziční limity (PEL) (ppm)	0.4 ppm
Expoziční limity (NPK-P) (mg/m ³)	1 mg/m ³
Expoziční limity (NPK-P) (ppm)	0.8 ppm
Remark (CZ)	I - dráždí sliznice (oči, dýchací cesty), respektive kůži, K - karcinogen kategorie 1A a 1B (s větou H350, H350i), S - látka má senzibilizující účinek (s větou H317, H334).
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 41/2020 Sb.)
Denmark - Occupational Exposure Limits	
Local name	Formaldehyd (Formalin)
Grænsevædi (8 timer) (mg/m ³)	0.4 mg/m ³
Grænsevædi (8 timer) (ppm)	0.3 ppm
Grænsevædi (loftværdi) (mg/m ³)	0.4 mg/m ³
Grænsevædi (loftværdi) (ppm)	0.3 ppm
Anmærkninger (DK)	L (markerer, at grænseværdien er en loftværdi, som ikke på noget tidspunkt må overskrides); K (betyder, at stoffet anses for at kunne være kræftfremkaldende)
Regulatory reference	BEK nr 1458 af 13/12/2019
Finland - Occupational Exposure Limits	
Local name	Formaldehydi
HTP-arvo (8h) (mg/m ³)	0.37 mg/m ³ (Raja-arvoja sovelletaan 11 päivästä heinäkuuta 2021)
HTP-arvo (8h) (ppm)	0.3 ppm (Raja-arvoja sovelletaan 11 päivästä heinäkuuta 2021) 0.5 ppm (Terveysthuolto- sekä hautaus- ja balsamointialoilla sovelletaan 11 päivän heinäkuuta 2021 ja 10 päivän heinäkuuta 2024 välisenä aikana nämä päivät mukaan lukien)
HTP-arvo (15 min)	0.74 mg/m ³ (Raja-arvoja sovelletaan 11 päivästä heinäkuuta 2021)
HTP-arvo (15 min) (ppm)	0.6 ppm (Raja-arvoja sovelletaan 11 päivästä heinäkuuta 2021)
Huomautus (FI)	ihoherkistyminen. Työssä tapahtuvan altistumisen sitovat raja-arvot.
Regulatory reference	Valtioneuvoston asetus työhön liittyvän syöpävaaran torjunnasta (1267/2019)
France - Occupational Exposure Limits	
Local name	Aldéhyde formique
VME [ppm]	0.5 ppm

Paint-Riter™ Valve Action Paint Marker Fluorescent Yellow, Fluorescent Green, Fluorescent Orange, Fluorescent Pink, Ultra Violet

Safety Data Sheet

according to Regulation (EU) 2015/830

formaldehyde (50-00-0)	
VLE [ppm]	1 ppm
Note (FR)	Valeurs recommandées/admises; substance classée cancérigène de catégorie 1B et mutagène de catégorie 2; procédé cancérigène cité à l'arrêté du 5 janvier 1993 modifié
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Germany - Occupational Exposure Limits (TRGS 900)	
TRGS 900 Local name	Formaldehyd
Occupational exposure limit value (mg/m ³)	0.37 mg/m ³
Occupational exposure limit value (ppm)	0.3 ppm
Peak exposure limitation factor	2(l)
TRGS 900 Remark	AGS;Sh;Y;X
TRGS 900 Regulatory reference	TRGS900
Hungary - Occupational Exposure Limits	
Local name	FORMALDEHID
AK-érték	0.6 mg/m ³
CK-érték	0.6 mg/m ³
Megjegyzések (HU)	k(1B) (rákkeltő), b (Bőrön át is felszívódik), m (maró hatású anyag, amely felmarja a bőrt, nyálkahártyát, szemet vagy mindháromat), sz (Túlérzékenységet okozó (szenzibilizáló) tulajdonságú anyag. Az anyagra érzékeny egyéneken „túlérzékenységen” alapuló bőr-, légzőrendszeri, esetleg más szervet/szervrendszert károsító megbetegedést okozhat); T (Azok az anyagok, amelyek egészségkárosító hatása TARTÓS expozíciót követően jelentkezik)
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m ³)	2.5 mg/m ³
OEL (8 hours ref) (ppm)	2 ppm
OEL (15 min ref) (mg/m ³)	2.5 mg/m ³
OEL (15 min ref) (ppm)	2 ppm
Latvia - Occupational Exposure Limits	
Local name	Formaldehīds (metanāls)
OEL TWA (mg/m ³)	0.5 mg/m ³
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325
Lithuania - Occupational Exposure Limits	
IPRV (mg/m ³)	0.6 mg/m ³
IPRV (ppm)	0.5 ppm
NRV (mg/m ³)	1 mg/m ³
NRV (ppm)	1.2 ppm
Remark (LT)	Ū J K
Netherlands - Occupational Exposure Limits	
Local name	Formaldehyde
Grenswaarde TGG 8H (mg/m ³)	0.15 mg/m ³
Grenswaarde TGG 15MIN (mg/m ³)	0.5 mg/m ³
Regulatory reference	Arbeidsomstandighedenregeling 2020
Poland - Occupational Exposure Limits	
Local name	Formaldehyd

Paint-Riter™ Valve Action Paint Marker Fluorescent Yellow, Fluorescent Green, Fluorescent Orange, Fluorescent Pink, Ultra Violet

Safety Data Sheet

according to Regulation (EU) 2015/830

formaldehyde (50-00-0)	
NDS (mg/m ³)	0.37 mg/m ³
NDSCh (mg/m ³)	0.74 mg/m ³
Remark (PL)	Skóra (Oznakowanie substancji notacją „skóra” oznacza, że wchłanianie substancji przez skórę może być tak samo istotne jak przy narażeniu drogą oddechową). Substancja może mieć działanie uczulające na skórę.
Regulatory reference	Dz. U. 2020 poz. 61
Portugal - Occupational Exposure Limits	
Local name	Formaldeído
OEL - Ceilings (mg/m ³)	0.3 mg/m ³
OEL - Ceilings (ppm)	0.3 ppm
Regulatory reference	Norma Portuguesa NP 1796:2014
Slovakia - Occupational Exposure Limits	
Local name	Formaldehyd (metanál)
NPHV (priemerná) (mg/m ³)	0.37 mg/m ³
NPHV (priemerná) (ppm)	0.3 ppm
OEL STEL (mg/m ³)	0.74 mg/m ³
OEL STEL (ppm)	0.6 ppm
Upozornenie (SK)	S - znamená, že faktor môže spôsobiť senzibilizáciu
Regulatory reference	Nariadenie vlády č. 33/2018 Z. z.
Slovenia - Occupational Exposure Limits	
Local name	formaldehyd
OEL TWA (mg/m ³)	0.37 mg/m ³ 0.62 mg/m ³
OEL TWA (ppm)	0.3 ppm 0.5 ppm
OEL STEL (mg/m ³)	0.74 mg/m ³
OEL STEL (ppm)	0.6 ppm
Remark (SI)	EU, K (Lastnost lažjega prehajanja snovi v organizem skozi kožo), SK (Snov lahko povzroči preobčutljivost kože)
Regulatory reference	Uradni list RS, št. 79/2019 z dne 24.12.2019
Spain - Occupational Exposure Limits	
Local name	Formaldehído
VLA-ED (mg/m ³)	0.37 mg/m ³
VLA-ED (ppm)	0.3 ppm
VLA-EC (mg/m ³)	0.74 mg/m ³
VLA-EC (ppm)	0.6 ppm
Notes	C1B (Supuesto carcinógeno para el hombre), Sen (Sensibilizante), s (Esta sustancia tiene prohibida total o parcialmente su comercialización y uso como fitosanitario y/o como biocida. Para una información detallada acerca de las prohibiciones consúltese: Base de datos de productos biocidas: http://www.msssi.gob.es/ciudadanos/productos.do?tipo=plaguicidas Base de datos de productos fitosanitarios http://www.magrama.gob.es/agricultura/pags/fitos/registro/fichas/pdf/Lista_sa.pdf).
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
Sweden - Occupational Exposure Limits	
Local name	Formaldehyd

Paint-Riter™ Valve Action Paint Marker Fluorescent Yellow, Fluorescent Green, Fluorescent Orange, Fluorescent Pink, Ultra Violet

Safety Data Sheet

according to Regulation (EU) 2015/830

formaldehyde (50-00-0)	
nivågränsvärde (NVG) (mg/m ³)	0.37 mg/m ³
nivågränsvärde (NVG) (ppm)	0.3 ppm
kortidsvärde (KTV) (mg/m ³)	0.74 mg/m ³
kortidsvärde (KTV) (ppm)	0.6 ppm
takgränsvärde (TGV) (mg/m ³)	0.74 mg/m ³
takgränsvärde (TGV) (ppm)	0.6 ppm
Anmärkning (SE)	C (Ämnet är cancerframkallande. Risk för cancer finns även vid annan exponering än via inandning. För vissa cancerframkallande ämnen som inte har gränsvärden gäller förbud eller tillståndskrav enligt föreskrifterna om kemiska arbetsmiljörisker); H (Ämnet kan lätt upptas genom huden. Det föreskrivna gränsvärdet bedöms ge tillräckligt skydd endast under förutsättning att huden är skyddad mot exponering för ämnet ifråga); M (Medicinska kontroller kan krävas för hantering av ämnet. Se vidare föreskrifterna om medicinska kontroller i arbetslivet. För vissa ämnen ska arbetsgivaren erbjuda läkarundersökning och för andra ämnen gäller krav på periodisk läkarundersökning och tjänstbarhetsbedömning); S (Ämnet är sensibiliserande. Sensibiliserande ämnen kan ge allergi eller annan överkänslighet. Överkänslighetsbesvären drabbar främst huden eller andningsorganen. Överkänslighet innebär att man reagerar vid kontakt med ämnen som normalt inte ger besvär. Allergi är en undergrupp av överkänslighet som orsakas av reaktioner i kroppens immunsystem. Särskilt låga gränsvärden har fastställts för ämnen med mer uttalat luftvägssensibiliserande egenskaper. Några ämnen med starkt sensibiliserande egenskaper får endast hanteras efter tillstånd från Arbetsmiljöverket, se föreskrifterna om kemiska arbetsmiljörisker. Dessa ämnen har inga gränsvärden men i vissa fall riktvärden)
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m ³)	2.5 mg/m ³
WEL TWA (ppm)	2 ppm
WEL STEL (mg/m ³)	2.5 mg/m ³
WEL STEL [ppm]	2 ppm
Norway - Occupational Exposure Limits	
Local name	Formaldehyd
Grenseverdier (AN) (mg/m ³)	0.6 mg/m ³
Grenseverdier (AN) (ppm)	0.5 ppm
Grenseverdier (Takverdi) (mg/m ³)	1.2 mg/m ³
Grenseverdier (Takverdi) (ppm)	1 ppm
Merknader (NO)	A: Kjemikalier som skal betraktes som at de fremkaller allergi eller annen overfølsomhet i øynene eller luftveier, eller som skal betraktes som at de fremkaller allergi ved hudkontakt; K: Kjemikalier som skal betraktes som kreftfremkallende.
Regulatory reference	FOR-2020-04-06-695
Switzerland - Occupational Exposure Limits	
VME [mg/m ³]	0.37 mg/m ³
MAK (ppm)	0.3 ppm
KZGW (mg/m ³)	0.74 mg/m ³
KZGW (ppm)	0.6 ppm
Chromium (7440-47-3)	
EU - Occupational Exposure Limits	
Local name	Chromium metal
IOELV TWA (mg/m ³)	2 mg/m ³
Notes	(Chromium, anorg. CrII and CrIII compounds, insoluble)

Paint-Riter™ Valve Action Paint Marker Fluorescent Yellow, Fluorescent Green, Fluorescent Orange, Fluorescent Pink, Ultra Violet

Safety Data Sheet

according to Regulation (EU) 2015/830

Chromium (7440-47-3)	
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC
Austria - Occupational Exposure Limits	
MAK [mg/m ³]	2 mg/m ³
Remark (AT)	(Chrommetall, anorganische Chrom(II)- und anorganische Chrom(III)-Verbindungen, unlöslich), (Sh)
Belgium - Occupational Exposure Limits	
Limit value [mg/m ³]	0.5 mg/m ³
Czech Republic - Occupational Exposure Limits	
Local name	Prach z chromu
Expoziční limity (PEL) (mg/m ³)	0.5 mg/m ³
Expoziční limity (NPK-P) (mg/m ³)	1.5 mg/m ³
Remark (CZ)	Prachy s převážně dráždivým účinkem.
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 41/2020 Sb.)
Denmark - Occupational Exposure Limits	
Local name	Chrom, pulver og opløselige chromi- og chromosalte
Grænsevædi (8 timer) (mg/m ³)	0.5 mg/m ³ beregnet som Cr
Anmærkninger (DK)	(Chrom, pulver og opløselige chromi- og chromosalte, beregnet som Cr)
Regulatory reference	BEK nr 1458 af 13/12/2019
Finland - Occupational Exposure Limits	
Local name	Kromi, metalli
HTP-arvo (8h) (mg/m ³)	0.5 mg/m ³ Cr
Huomautus (FI)	(Kromi, metalli; Kromi ja sen (II, III)-yhdisteet)
Regulatory reference	HTP-ARVOT 2018 (Sosiaali- ja terveysministeriö)
Finland - Biological limit values	
Local name	Kromi-(VI) ja sen yhdisteet
Finland - BLV	0.2 µmol/l Parametri: Virtsan kromi - Näytteenottoajankohta: Työvaiheen tai työvuoron päätyttyä työviikon tai altistumisjakson loputtua
Regulatory reference	HTP-ARVOT 2018 (Sosiaali- ja terveysministeriö)
France - Occupational Exposure Limits	
Local name	Chrome (métal), composés de chrome inorganiques (II) et composés de chrome inorganiques (insolubles) (III)
VME [mg/m ³]	2 mg/m ³
Note (FR)	Valeurs réglementaires indicatives
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Germany - Occupational Exposure Limits (TRGS 900)	
TRGS 900 Local name	Chrom und anorganische Chrom(II) und (III)-Verbindungen
Occupational exposure limit value (mg/m ³)	2 mg/m ³ (E)
Peak exposure limitation factor	1(I)
TRGS 900 Remark	10;EU
TRGS 900 Regulatory reference	TRGS900
Hungary - Occupational Exposure Limits	
Local name	KRÓM (fém), SZERVETLEN KRÓM (II) és KRÓM (III) VEGYÜLETEK (nem oldható)
AK-érték	2 mg/m ³

Paint-Riter™ Valve Action Paint Marker Fluorescent Yellow, Fluorescent Green, Fluorescent Orange, Fluorescent Pink, Ultra Violet

Safety Data Sheet

according to Regulation (EU) 2015/830

Chromium (7440-47-3)	
Megjegyzések (HU)	i (ingerlő anyag, amely irritálja a bőrt, nyálkahártyát, szemet vagy mindhárom), sz (Túlerzékenységet okozó (szenzibilizáló) tulajdonságú anyag. Az anyagra érzékeny egyéneken „túlerzékenységen” alapuló bőr-, légzőrendszeri, esetleg más szervet/szervrendszert károsító megbetegedést okozhat), BEM (biológiai expozíciós mutató); EU2 (2006/15/EK irányelvben közölt érték); T (Azok az anyagok, amelyek egészségkárosító hatása TARTÓS expozíciót követően jelentkezik)
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
Hungary - Biological limit values	
Local name	Króm
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m ³)	2 mg/m ³
Lithuania - Occupational Exposure Limits	
IPRV (mg/m ³)	2 mg/m ³
Remark (LT)	(Chromas (metalas), neorganinio chromo (II) junginiai ir neorganinio chromo (III) junginiai (netirpus))
Netherlands - Occupational Exposure Limits	
Local name	Chroom
Grenswaarde TGG 8H (mg/m ³)	0.5 mg/m ³ (metallisch)
Regulatory reference	Arbeidsomstandighedenregeling 2020
Poland - Occupational Exposure Limits	
Local name	Chrom metaliczny
NDS (mg/m ³)	0.5 mg/m ³
Regulatory reference	Dz. U. 2018 poz. 1286
Portugal - Occupational Exposure Limits	
Local name	Crómio metal e compostos de crómio (III), expressos em Cr
OEL TWA (mg/m ³)	0.5 mg/m ³
Regulatory reference	Norma Portuguesa NP 1796:2014
Slovakia - Occupational Exposure Limits	
Local name	Chróm anorg. zlúč. chrómu (II) a (III) – nerozpustné (ako Cr)
NPHV (priemerná) (mg/m ³)	2 mg/m ³
Upozornenie (SK)	(chróm – kovový)
Regulatory reference	Nariadenie vlády č. 33/2018 Z. z.
Slovenia - Occupational Exposure Limits	
Local name	krom – kovinski, anorganske kromove (II) spojine in anorganske kromove (III) spojine (netopne)
OEL TWA (mg/m ³)	2 mg/m ³
OEL STEL (mg/m ³)	2 mg/m ³
Remark (SI)	EU
Regulatory reference	Uradni list RS, št. 78/2019 z dne 20.12.2019
Spain - Occupational Exposure Limits	
Local name	Cromo metal
VLA-ED (mg/m ³)	2 mg/m ³
VLA-ED (ppm)	2 ppm

Paint-Riter™ Valve Action Paint Marker Fluorescent Yellow, Fluorescent Green, Fluorescent Orange, Fluorescent Pink, Ultra Violet

Safety Data Sheet

according to Regulation (EU) 2015/830

Chromium (7440-47-3)	
Notes	VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo).
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
Sweden - Occupational Exposure Limits	
Local name	Krom, och oorg. (II, III)-föreningar (som Cr)
nivågränsvärde (NVG) (mg/m ³)	0.5 mg/m ³ totaldamm
Anmärkning (SE)	3 (Med totaldamm menas de partiklar (aerosoler) som fastnar på ett filter i den provtagare som beskrivs i Metodserien, Provtagning av totaldamm och respirabelt damm, Metod nr 1010, Arbetskyddsstyrelsen, numera Arbetsmiljöverket. Filterdiametern är normalt 37 mm, men kan även vara 25 mm. Trots sitt namn provtas inte den totala mängden luftburna partiklar med denna metod)
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m ³)	0.5 mg/m ³
Norway - Occupational Exposure Limits	
Grænseverdier (AN) (mg/m ³)	0.5 mg/m ³
Merknader (NO)	(Krom og Cr ^{2±} og Cr ^{3±} forb., beregnet som Cr)
Switzerland - Occupational Exposure Limits	
VME [mg/m ³]	0.5 mg/m ³
Remark	(einateubar; Metall und Chrom-(III)-Verbindungen)

2-methylpropan-1-ol (78-83-1)	
Czech Republic - Occupational Exposure Limits	
Local name	Butanol (všechny isomery)
Expoziční limity (PEL) (mg/m ³)	300 mg/m ³
Expoziční limity (PEL) (ppm)	100 ppm
Expoziční limity (NPK-P) (mg/m ³)	600 mg/m ³
Expoziční limity (NPK-P) (ppm)	200 ppm
Remark (CZ)	D
Denmark - Occupational Exposure Limits	
Local name	Isobutylalkohol
Grænsevædi (8 timer) (mg/m ³)	150 mg/m ³
Grænsevædi (8 timer) (ppm)	50 ppm
Anmærkninger (DK)	L (markerer, at grænseværdien er en loftværdi, som ikke på noget tidspunkt må overskrides); H (betyder, at stoffet kan optages gennem huden)
Finland - Occupational Exposure Limits	
Huomautus (FI)	iho
France - Occupational Exposure Limits	
Local name	Alcool isobutylique
VME [mg/m ³]	150 mg/m ³
VME [ppm]	50 ppm
Note (FR)	Valeurs recommandées/admises
Germany - Occupational Exposure Limits (TRGS 900)	
TRGS 900 Local name	2-Methylpropan-1-ol
Occupational exposure limit value (mg/m ³)	310 mg/m ³

Paint-Riter™ Valve Action Paint Marker Fluorescent Yellow, Fluorescent Green, Fluorescent Orange, Fluorescent Pink, Ultra Violet

Safety Data Sheet

according to Regulation (EU) 2015/830

2-methylpropan-1-ol (78-83-1)	
Occupational exposure limit value (ppm)	100 ppm
Limitation of exposure peaks (mg/m ³)	310 mg/m ³
Limitation of exposure peaks (ppm)	100 ppm
TRGS 900 Remark	DFG, Y
Poland - Occupational Exposure Limits	
Local name	2-Metylopropan-1-ol (izobutylowy alkohol)
NDS (mg/m ³)	100 mg/m ³
NDSCh (mg/m ³)	200 mg/m ³
Portugal - Occupational Exposure Limits	
Local name	Isobutanol (Álcool isobutílico)
OEL TWA (ppm)	50 ppm
Slovakia - Occupational Exposure Limits	
Local name	izo-Butanol
NPHV (priemerná) (mg/m ³)	310 mg/m ³
NPHV (priemerná) (ppm)	100 ppm
Slovenia - Occupational Exposure Limits	
Local name	2-metilpropan-1-ol (izobutanol)
OEL TWA (mg/m ³)	310 mg/m ³
OEL TWA (ppm)	100 ppm
OEL STEL (mg/m ³)	310 mg/m ³
OEL STEL (ppm)	100 ppm
Spain - Occupational Exposure Limits	
Local name	Isobutanol (Alcohol isobutílico)
VLA-ED (mg/m ³)	154 mg/m ³
VLA-ED (ppm)	50 ppm
Sweden - Occupational Exposure Limits	
Local name	iso-Butanol
nivågränsvärde (NVG) (mg/m ³)	150 mg/m ³
nivågränsvärde (NVG) (ppm)	50 ppm
kortidsvärde (KTV) (mg/m ³)	250 mg/m ³
kortidsvärde (KTV) (ppm)	75 ppm
Anmärkning (SE)	H
Norway - Occupational Exposure Limits	
Local name	2-metylpropan-1-ol
Grenseverdier (AN) (mg/m ³)	75 mg/m ³
Grenseverdier (AN) (ppm)	25 ppm
Grenseverdier (Takverdi) (mg/m ³)	75 mg/m ³
Grenseverdier (Takverdi) (ppm)	25 ppm
Merknader (NO)	H (Kjemikalier som kan tas opp gjennom huden); T (Takverdi er en øyeblikksverdi som angir maksimalkonsentrasjon av et kjemikalie i pustesonen som ikke skal overskrides)

Paint-Riter™ Valve Action Paint Marker Fluorescent Yellow, Fluorescent Green, Fluorescent Orange, Fluorescent Pink, Ultra Violet

Safety Data Sheet

according to Regulation (EU) 2015/830

Acetophenone (98-86-2)	
Belgium - Occupational Exposure Limits	
Limit value [mg/m ³]	50 mg/m ³
Limit value [ppm]	10 ppm
Denmark - Occupational Exposure Limits	
Local name	Acetofenon
Grænsevædi (8 timer) (mg/m ³)	49 mg/m ³
Grænsevædi (8 timer) (ppm)	10 ppm
Grænsevædi (STEL) (mg/m ³)	98 mg/m ³
Grænsevædi (STEL) (ppm)	20 ppm
Finland - Occupational Exposure Limits	
Local name	Asetofenoni
HTP-arvo (8h) (mg/m ³)	25 mg/m ³
HTP-arvo (8h) (ppm)	5 ppm
Hungary - Occupational Exposure Limits	
Local name	ACETOFENON
AK-érték	50 mg/m ³
Megjegyzések (HU)	i
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m ³)	49 mg/m ³
OEL (8 hours ref) (ppm)	10 ppm
Latvia - Occupational Exposure Limits	
Local name	Acetofenons (fenilmetilketons)
OEL TWA (mg/m ³)	5 mg/m ³
Lithuania - Occupational Exposure Limits	
IPRV (mg/m ³)	5 mg/m ³
Remark (LT)	O
Poland - Occupational Exposure Limits	
Local name	Acetofenon
NDS (mg/m ³)	50 mg/m ³
NDSCh (mg/m ³)	100 mg/m ³
Portugal - Occupational Exposure Limits	
Local name	Acetofenona
OEL TWA (ppm)	10 ppm
Spain - Occupational Exposure Limits	
Local name	Acetofenona
VLA-ED (mg/m ³)	50 mg/m ³
VLA-ED (ppm)	10 ppm

zinc sulphide (1314-98-3)

Lithuania - Occupational Exposure Limits

IPRV (mg/m ³)	5 mg/m ³
---------------------------	---------------------

Paint-Riter™ Valve Action Paint Marker Fluorescent Yellow, Fluorescent Green, Fluorescent Orange, Fluorescent Pink, Ultra Violet

Safety Data Sheet

according to Regulation (EU) 2015/830

Butyl acetate (123-86-4)	
EU - Occupational Exposure Limits	
Local name	n-Butyl acetate
IOELV TWA (mg/m ³)	241 mg/m ³
IOELV TWA (ppm)	50 ppm
IOELV STEL (mg/m ³)	723 mg/m ³
IOELV STEL (ppm)	150 ppm
Regulatory reference	COMMISSION DIRECTIVE (EU) 2019/1831
Austria - Occupational Exposure Limits	
MAK [mg/m ³]	480 mg/m ³
MAK Daily average value (ppm)	100 ppm
MAK Short time value [mg/m ³]	480 mg/m ³
MAK Short time value [ppm]	100 ppm
Remark (AT)	(gemessen als Momentanwert)
Belgium - Occupational Exposure Limits	
Limit value [mg/m ³]	723 mg/m ³
Limit value [ppm]	150 ppm
Short time value [mg/m ³]	964 mg/m ³
Short time value [ppm]	200 ppm
Denmark - Occupational Exposure Limits	
Local name	n-Butylacetat
Grænsevædi (8 timer) (mg/m ³)	710 mg/m ³
Grænsevædi (8 timer) (ppm)	150 ppm
Grænsevædi (STEL) (mg/m ³)	1420 mg/m ³
Grænsevædi (STEL) (ppm)	300 ppm
Regulatory reference	BEK nr 1458 af 13/12/2019
Finland - Occupational Exposure Limits	
Local name	n-Butyliasettaatti
HTP-arvo (8h) (mg/m ³)	720 mg/m ³
HTP-arvo (8h) (ppm)	150 ppm
HTP-arvo (15 min)	960 mg/m ³
HTP-arvo (15 min) (ppm)	200 ppm
Regulatory reference	HTP-ARVOT 2018 (Sosiaali- ja terveystieteiden tutkimuskeskus)
France - Occupational Exposure Limits	
Local name	Acétate de n-butyle
VME [mg/m ³]	710 mg/m ³
VME [ppm]	150 ppm
VLE [mg/m ³]	940 mg/m ³
VLE [ppm]	200 ppm
Note (FR)	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Germany - Occupational Exposure Limits (TRGS 900)	
TRGS 900 Local name	n-Butylacetat

Paint-Riter™ Valve Action Paint Marker Fluorescent Yellow, Fluorescent Green, Fluorescent Orange, Fluorescent Pink, Ultra Violet

Safety Data Sheet

according to Regulation (EU) 2015/830

Butyl acetate (123-86-4)	
Occupational exposure limit value (mg/m ³)	300 mg/m ³
Occupational exposure limit value (ppm)	62 ppm
Peak exposure limitation factor	2(l)
TRGS 900 Remark	AGS;Y
TRGS 900 Regulatory reference	TRGS900
Hungary - Occupational Exposure Limits	
Local name	n-BUTIL-ACETÁT
AK-érték	241 mg/m ³
CK-érték	723 mg/m ³
Megjegyzések (HU)	i (ingerlő anyag, amely izgatja a bőrt, nyálkahártyát, szemet vagy mindhármát), sz (Túlérzékenységet okozó (szenzibilizáló) tulajdonságú anyag. Az anyagra érzékeny egyéneken „túlérzékenységen” alapuló bőr-, légzőrendszeri, esetleg más szervet/szervrendszert károsító megbetegedést okozhat); N (Irritáló anyagok, egyszerű főttógázok, csekély egészségkárosító hatással bíró anyagok)
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m ³)	710 mg/m ³
OEL (8 hours ref) (ppm)	150 ppm
OEL (15 min ref) (mg/m ³)	950 mg/m ³
OEL (15 min ref) (ppm)	200 ppm
Latvia - Occupational Exposure Limits	
Local name	Etiķskābes butilesteris (n-butilacetāts)
OEL TWA (mg/m ³)	200 mg/m ³
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2011. gada 1. februārī noteikumiem Nr. 92)
Lithuania - Occupational Exposure Limits	
IPRV (mg/m ³)	500 mg/m ³
IPRV (ppm)	100 ppm
TPRV (mg/m ³)	700 mg/m ³
TPRV (ppm)	150 ppm
Poland - Occupational Exposure Limits	
Local name	Octan n-butylu (n-butylu octan)
NDS (mg/m ³)	240 mg/m ³
NDSch (mg/m ³)	720 mg/m ³
Regulatory reference	Dz. U. 2018 poz. 1286
Portugal - Occupational Exposure Limits	
Local name	Acetato de n-butilo
OEL TWA (ppm)	150 ppm
OEL STEL (ppm)	200 ppm
Regulatory reference	Norma Portuguesa NP 1796:2014
Slovakia - Occupational Exposure Limits	
Local name	Butylacetáty: n-Butylacetát
NPHV (priemerná) (mg/m ³)	500 mg/m ³

Paint-Riter™ Valve Action Paint Marker Fluorescent Yellow, Fluorescent Green, Fluorescent Orange, Fluorescent Pink, Ultra Violet

Safety Data Sheet

according to Regulation (EU) 2015/830

Butyl acetate (123-86-4)	
NPHV (priemerná) (ppm)	100 ppm
OEL STEL (mg/m ³)	700 mg/m ³
OEL STEL (ppm)	150 ppm
Regulatory reference	Nariadenie vlády č. 33/2018 Z. z.
Slovenia - Occupational Exposure Limits	
Local name	n-butilacetat
OEL TWA (mg/m ³)	300 mg/m ³
OEL TWA (ppm)	62 ppm
OEL STEL (mg/m ³)	600 mg/m ³
OEL STEL (ppm)	124 ppm
Remark (SI)	Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti)
Regulatory reference	Uradni list RS, št. 78/2019 z dne 20.12.2019
Spain - Occupational Exposure Limits	
Local name	Acetato de n-butilo
VLA-ED (mg/m ³)	724 mg/m ³
VLA-ED (ppm)	150 ppm
VLA-EC (mg/m ³)	965 mg/m ³
VLA-EC (ppm)	200 ppm
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
Sweden - Occupational Exposure Limits	
Local name	n-Butylacetat
nivågränsvärde (NVG) (mg/m ³)	500 mg/m ³
nivågränsvärde (NVG) (ppm)	100 ppm
kortidsvärde (KTV) (mg/m ³)	700 mg/m ³
kortidsvärde (KTV) (ppm)	150 ppm
Anmärkning (SE)	V (Vägledande korttidsgränsvärde ska användas som ett rekommenderat högsta värde som inte bör överskridas)
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m ³)	724 mg/m ³
WEL TWA (ppm)	150 ppm
WEL STEL (mg/m ³)	966 mg/m ³
WEL STEL [ppm]	200 ppm
Norway - Occupational Exposure Limits	
Grenseverdier (AN) (mg/m ³)	355 mg/m ³
Grenseverdier (AN) (ppm)	75 ppm
Switzerland - Occupational Exposure Limits	
VME [mg/m ³]	480 mg/m ³
MAK (ppm)	100 ppm
KZGW (mg/m ³)	960 mg/m ³ max. 8x5 min./turno
KZGW (ppm)	200 ppm max. 8x5 min./turno

Paint-Riter™ Valve Action Paint Marker Fluorescent Yellow, Fluorescent Green, Fluorescent Orange, Fluorescent Pink, Ultra Violet

Safety Data Sheet

according to Regulation (EU) 2015/830

2-methoxy-1-methylethyl acetate (108-65-6)	
Denmark - Occupational Exposure Limits	
Grænsevædi (STEL) (mg/m ³)	550 mg/m ³
Grænsevædi (STEL) (ppm)	100 ppm
Finland - Occupational Exposure Limits	
Huomautus (FI)	iho
France - Occupational Exposure Limits	
Note (FR)	Peau
Germany - Occupational Exposure Limits (TRGS 900)	
Limitation of exposure peaks (mg/m ³)	270 mg/m ³
Limitation of exposure peaks (ppm)	50 ppm
Slovakia - Occupational Exposure Limits	
NPHV (priemerná) (mg/m ³)	275 mg/m ³
NPHV (priemerná) (ppm)	50 ppm
Upozornenie (SK)	(K)
Spain - Occupational Exposure Limits	
VLA-ED (mg/m ³)	275 mg/m ³
VLA-ED (ppm)	50 ppm
VLA-EC (mg/m ³)	550 mg/m ³
VLA-EC (ppm)	100 ppm
Notes	VLI
Sweden - Occupational Exposure Limits	
Anmärkning (SE)	H

2-methoxypropyl acetate (70657-70-4)	
Czech Republic - Occupational Exposure Limits	
Remark (CZ)	D
Denmark - Occupational Exposure Limits	
Grænsevædi (STEL) (mg/m ³)	220 mg/m ³
Grænsevædi (STEL) (ppm)	40 ppm
Germany - Occupational Exposure Limits (TRGS 900)	
Limitation of exposure peaks (mg/m ³)	224 mg/m ³
Limitation of exposure peaks (ppm)	40 ppm
Slovakia - Occupational Exposure Limits	
NPHV (priemerná) (mg/m ³)	110 mg/m ³
NPHV (priemerná) (ppm)	20 ppm
Upozornenie (SK)	(K)
Spain - Occupational Exposure Limits	
VLA-ED (mg/m ³)	28 mg/m ³
VLA-ED (ppm)	5 ppm
VLA-EC (mg/m ³)	220 mg/m ³
VLA-EC (ppm)	40 ppm
Notes	TR1B,r

Paint-Riter™ Valve Action Paint Marker Fluorescent Yellow, Fluorescent Green, Fluorescent Orange, Fluorescent Pink, Ultra Violet

Safety Data Sheet

according to Regulation (EU) 2015/830

(2-Methoxymethylethoxy)-propanol (34590-94-8)	
EU - Occupational Exposure Limits	
Local name	(2-Methoxymethylethoxy)-propanol
IOELV TWA (mg/m ³)	308 mg/m ³
IOELV TWA (ppm)	50 ppm
Notes	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
Austria - Occupational Exposure Limits	
MAK [mg/m ³]	307 mg/m ³
MAK Daily average value (ppm)	50 ppm
MAK Short time value [mg/m ³]	614 mg/m ³
MAK Short time value [ppm]	100 ppm
Remark (AT)	max. 8x5 min./Schicht (gemessen als Momentanwert)
Belgium - Occupational Exposure Limits	
Limit value [mg/m ³]	308 mg/m ³
Limit value [ppm]	50 ppm
Remark (BE)	D
Czech Republic - Occupational Exposure Limits	
Local name	(2-Methoxymethylethoxy)-propanol (směs isomerů)
Expoziční limity (PEL) (mg/m ³)	270 mg/m ³
Expoziční limity (PEL) (ppm)	43.7 ppm
Expoziční limity (NPK-P) (mg/m ³)	550 mg/m ³
Expoziční limity (NPK-P) (ppm)	89.1 ppm
Remark (CZ)	D - při expozici se významně uplatňuje pronikání faktoru kůží.
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 41/2020 Sb.)
Denmark - Occupational Exposure Limits	
Local name	Dipropylenglycolmethylether (Methoxypropoxypropanol)
Grænsevædi (8 timer) (mg/m ³)	309 mg/m ³
Grænsevædi (8 timer) (ppm)	50 ppm
Grænsevædi (STEL) (mg/m ³)	600 mg/m ³
Grænsevædi (STEL) (ppm)	100 ppm
Anmærkninger (DK)	E (betyder, at stoffet har en EF-grænseværdi); H (betyder, at stoffet kan optages gennem huden)
Regulatory reference	BEK nr 1458 af 13/12/2019
Finland - Occupational Exposure Limits	
Local name	(2-Metoksimetyylietoksi)-propanoli
HTP-arvo (8h) (mg/m ³)	310 mg/m ³
HTP-arvo (8h) (ppm)	50 ppm
Huomautus (FI)	iho
Regulatory reference	HTP-ARVOT 2018 (Sosiaali- ja terveystieteiden ministeriö)
France - Occupational Exposure Limits	
Local name	(2-méthoxyméthyléthoxy)-propanol
VME [mg/m ³]	308 mg/m ³

Paint-Riter™ Valve Action Paint Marker Fluorescent Yellow, Fluorescent Green, Fluorescent Orange, Fluorescent Pink, Ultra Violet

Safety Data Sheet

according to Regulation (EU) 2015/830

(2-Methoxymethylethoxy)-propanol (34590-94-8)	
VME [ppm]	50 ppm
Note (FR)	Valeurs réglementaires contraignantes; risque de pénétration percutanée
Regulatory reference	Article R4412-149 du Code du travail (réf.: INRS ED 984, 2016; Décret n° 2019-1487)
Germany - Occupational Exposure Limits (TRGS 900)	
TRGS 900 Local name	(2-Methoxymethyl-ethoxy)propanol (Isomerenmischung)
Occupational exposure limit value (mg/m ³)	310 mg/m ³
Occupational exposure limit value (ppm)	50 ppm
Limitation of exposure peaks (mg/m ³)	310 mg/m ³
Limitation of exposure peaks (ppm)	50 ppm
Peak exposure limitation factor	1(I)
TRGS 900 Remark	DFG;EU;11
TRGS 900 Regulatory reference	TRGS900
Hungary - Occupational Exposure Limits	
Local name	(2-METOXIMETILETOXI)-PROPANOL (Dipropiléneglikol-monometil-éter)
AK-érték	308 mg/m ³
CK-érték	308 mg/m ³
Megjegyzések (HU)	EU1 (2000/39/EK irányelvben közölt érték); R (Azok az anyagok, amelyek egészségkárosító hatása RÖVID expozíció hatására jelentkeznek)
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m ³)	308 mg/m ³
OEL (8 hours ref) (ppm)	50 ppm
Notes (IE)	Sk, IOELV
Italy - Occupational Exposure Limits	
Local name	(2-metossimetiletossi)-propanolo
OEL TWA (mg/m ³)	308 mg/m ³
OEL TWA (ppm)	50 ppm
Notes	pelle
Regulatory reference	Allegato XXXVIII del D.Lgs. 9 aprile 2008, n. 81 e s.m.i.
Latvia - Occupational Exposure Limits	
Local name	Metoksiropoksi propanols (dipropiléneglikola monometiléteris, DPM)
OEL TWA (mg/m ³)	308 mg/m ³
OEL TWA (ppm)	50 ppm
Remark (LV)	Āda
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2011. gada 1. februārī noteikumiem Nr. 92)
Lithuania - Occupational Exposure Limits	
IPRV (mg/m ³)	300 mg/m ³
IPRV (ppm)	50 ppm
TPRV (mg/m ³)	450 mg/m ³
TPRV (ppm)	75 ppm
Remark (LT)	O

Paint-Riter™ Valve Action Paint Marker Fluorescent Yellow, Fluorescent Green, Fluorescent Orange, Fluorescent Pink, Ultra Violet

Safety Data Sheet

according to Regulation (EU) 2015/830

(2-Methoxymethylethoxy)-propanol (34590-94-8)	
Netherlands - Occupational Exposure Limits	
Local name	Dipropyleenglycolmethylether
Grenswaarde TGG 8H (mg/m ³)	300 mg/m ³
Regulatory reference	Arbeidsomstandighedenregeling 2020
Poland - Occupational Exposure Limits	
Local name	(2-Metoksymetyloetoksy)propanol - mieszanina izomerów: 1-(2-metoksy-1-metyloetoksy)propan-2-ol, 1-(2-metoksy-2-metyloetoksy)propan-2-ol, 2-(2-metoksy-1-metyloetoksy)propan-1-ol
NDS (mg/m ³)	240 mg/m ³
NDSCh (mg/m ³)	480 mg/m ³
Remark (PL)	Skóra (Oznakowanie substancji notacją „skóra” oznacza, że wchłanianie substancji przez skórę może być tak samo istotne jak przy narażeniu drogą oddechową).
Regulatory reference	Dz. U. 2018 poz. 1286
Portugal - Occupational Exposure Limits	
Local name	2-Metoximetiletoxiopropanol (DPGME)
OEL TWA (ppm)	100 ppm
OEL STEL (ppm)	150 ppm
Regulatory reference	Norma Portuguesa NP 1796:2014
Slovakia - Occupational Exposure Limits	
Local name	2-Metoxymetyl-etoxypropanol (dipropylén glykol mono-metyléter)
NPHV (priemerná) (mg/m ³)	308 mg/m ³
NPHV (priemerná) (ppm)	50 ppm
Upozornenie (SK)	K - znamená, že faktor môže byť ľahko absorbovaný kožou
Regulatory reference	Nariadenie vlády č. 33/2018 Z. z.
Slovenia - Occupational Exposure Limits	
Local name	(2-metoksimetiletoksi)propanol (mešanica izomer)
OEL TWA (mg/m ³)	308 mg/m ³
OEL TWA (ppm)	50 ppm
OEL STEL (mg/m ³)	308 mg/m ³
OEL STEL (ppm)	50 ppm
Remark (SI)	K (Lastnost lažjega prehajanja snovi v organizem skozi kožo), EU
Regulatory reference	Uradni list RS, št. 78/2019 z dne 20.12.2019
Spain - Occupational Exposure Limits	
Local name	Éter metílico de dipropilenglicol
VLA-ED (mg/m ³)	308 mg/m ³
VLA-ED (ppm)	50 ppm
Notes	Vía dérmica (Indica que, en las exposiciones a esta sustancia, la aportación por la vía cutánea puede resultar significativa para el contenido corporal total si no se adoptan medidas para prevenir la absorción. En estas situaciones, es aconsejable la utilización del control biológico para poder cuantificar la cantidad global absorbida del contaminante), VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo).
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
Sweden - Occupational Exposure Limits	
Local name	Dipropylenglykolmonometyleter
nivågränsvärde (NVG) (mg/m ³)	300 mg/m ³

Paint-Riter™ Valve Action Paint Marker Fluorescent Yellow, Fluorescent Green, Fluorescent Orange, Fluorescent Pink, Ultra Violet

Safety Data Sheet

according to Regulation (EU) 2015/830

(2-Methoxymethylethoxy)-propanol (34590-94-8)	
nivågränsvärde (NVG) (ppm)	50 ppm
kortidsvärde (KTV) (mg/m ³)	450 mg/m ³
kortidsvärde (KTV) (ppm)	75 ppm
Anmärkning (SE)	H (Ämnet kan lätt upptas genom huden. Det föreskrivna gränsvärdet bedöms ge tillräckligt skydd endast under förutsättning att huden är skyddad mot exponering för ämnet ifråga); V (Vägledande kortidsgränsvärde ska användas som ett rekommenderat högsta värde som inte bör överskridas)
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m ³)	308 mg/m ³
WEL TWA (ppm)	50 ppm
Remark (WEL)	(Sk)
Norway - Occupational Exposure Limits	
Local name	(2-metoksymetyletoksy)-propanol (Dipropylenglykolmetyleter)
Grenseverdier (AN) (mg/m ³)	300 mg/m ³
Grenseverdier (AN) (ppm)	50 ppm
Merknader (NO)	H: Kjemikalier som kan tas opp gjennom huden; E: EU har en veiledende grenseverdi for stoffet.
Regulatory reference	FOR-2020-04-06-695
Switzerland - Occupational Exposure Limits	
VME [mg/m ³]	300 mg/m ³
MAK (ppm)	50 ppm
KZGW (mg/m ³)	300 mg/m ³
KZGW (ppm)	50 ppm
ethanol (64-17-5)	
Austria - Occupational Exposure Limits	
MAK [mg/m ³]	1900 mg/m ³
MAK Daily average value (ppm)	1000 ppm
MAK Short time value [mg/m ³]	3800 mg/m ³ max. 3x60 min./Schicht (gemessen als Momentanwert)
MAK Short time value [ppm]	2000 ppm max. 3x60 min./Schicht (gemessen als Momentanwert)
Belgium - Occupational Exposure Limits	
Limit value [mg/m ³]	1907 mg/m ³
Limit value [ppm]	1000 ppm
Czech Republic - Occupational Exposure Limits	
Local name	Ethanol (Ethylalkohol)
Expoziční limity (PEL) (mg/m ³)	1000 mg/m ³
Expoziční limity (PEL) (ppm)	522 ppm
Expoziční limity (NPK-P) (mg/m ³)	3000 mg/m ³
Expoziční limity (NPK-P) (ppm)	1566 ppm
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 41/2020 Sb.)
Denmark - Occupational Exposure Limits	
Local name	Ethanol (Ethylalkohol)
Grænsevædi (8 timer) (mg/m ³)	1900 mg/m ³

Paint-Riter™ Valve Action Paint Marker Fluorescent Yellow, Fluorescent Green, Fluorescent Orange, Fluorescent Pink, Ultra Violet

Safety Data Sheet

according to Regulation (EU) 2015/830

ethanol (64-17-5)	
Grænsevæði (8 timer) (ppm)	1000 ppm
Grænsevæði (STEL) (mg/m ³)	3800 mg/m ³
Grænsevæði (STEL) (ppm)	2000 ppm
Regulatory reference	BEK nr 1458 af 13/12/2019
Finland - Occupational Exposure Limits	
Local name	Etanoli
HTP-arvo (8h) (mg/m ³)	1900 mg/m ³
HTP-arvo (8h) (ppm)	1000 ppm
HTP-arvo (15 min)	2500 mg/m ³
HTP-arvo (15 min) (ppm)	1300 ppm
Regulatory reference	HTP-ARVOT 2018 (Sosiaali- ja terveysministeriö)
France - Occupational Exposure Limits	
Local name	Alcool éthylique
VME [mg/m ³]	1900 mg/m ³
VME [ppm]	1000 ppm
VLE [mg/m ³]	9500 mg/m ³
VLE [ppm]	5000 ppm
Note (FR)	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Germany - Occupational Exposure Limits (TRGS 900)	
TRGS 900 Local name	Ethanol
Occupational exposure limit value (mg/m ³)	380 mg/m ³
Occupational exposure limit value (ppm)	200 ppm
Peak exposure limitation factor	2(II)
TRGS 900 Remark	DFG;Y
TRGS 900 Regulatory reference	TRGS900
Hungary - Occupational Exposure Limits	
Local name	ETIL-ALKOHOL
AK-érték	1900 mg/m ³
CK-érték	3800 mg/m ³
Megjegyzések (HU)	N (Irritáló anyagok, egyszerű fojtógázok, csekély egészségkárosító hatással bíró anyagok)
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
Ireland - Occupational Exposure Limits	
OEL (15 min ref) (ppm)	1000 ppm
Latvia - Occupational Exposure Limits	
Local name	Etilspirts (etanols)
OEL TWA (mg/m ³)	1000 mg/m ³
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325
Lithuania - Occupational Exposure Limits	
IPRV (mg/m ³)	1000 mg/m ³
IPRV (ppm)	500 ppm

Paint-Riter™ Valve Action Paint Marker Fluorescent Yellow, Fluorescent Green, Fluorescent Orange, Fluorescent Pink, Ultra Violet

Safety Data Sheet

according to Regulation (EU) 2015/830

ethanol (64-17-5)	
TPRV (mg/m ³)	1900 mg/m ³
TPRV (ppm)	1000 ppm
Netherlands - Occupational Exposure Limits	
Local name	Ethanol
Grenswaarde TGG 8H (mg/m ³)	260 mg/m ³
Grenswaarde TGG 15MIN (mg/m ³)	1900 mg/m ³
Remark (MAC)	Kankerverwekkende stof. H (Huidopname) Stoffen die relatief gemakkelijk door de huid kunnen worden opgenomen, hetgeen een substantiële bijdrage kan betekenen aan de totale inwendige blootstelling, hebben in de lijst een H-aanduiding. Bij deze stoffen moeten naast maatregelen tegen inademing ook adequate maatregelen ter voorkoming van huidcontact worden genomen.
Regulatory reference	Arbeidsomstandighedenregeling 2020
Poland - Occupational Exposure Limits	
Local name	Etanol (alkohol etylowy)
NDS (mg/m ³)	1900 mg/m ³
Regulatory reference	Dz. U. 2018 poz. 1286
Portugal - Occupational Exposure Limits	
Local name	Etanol (Álcool etílico)
OEL STEL (ppm)	1000 ppm
Regulatory reference	Norma Portuguesa NP 1796:2014
Slovakia - Occupational Exposure Limits	
Local name	Etylalkohol (etanol)
NPHV (priemerná) (mg/m ³)	960 mg/m ³
NPHV (priemerná) (ppm)	500 ppm
OEL STEL (mg/m ³)	1920 mg/m ³
OEL STEL (ppm)	1000 ppm
Regulatory reference	Nariadenie vlády č. 33/2018 Z. z.
Slovenia - Occupational Exposure Limits	
Local name	etanol (etilalkohol)
OEL TWA (mg/m ³)	960 mg/m ³
OEL TWA (ppm)	500 ppm
OEL STEL (mg/m ³)	1920 mg/m ³
OEL STEL (ppm)	1000 ppm
Remark (SI)	Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti)
Regulatory reference	Uradni list RS, št. 78/2019 z dne 20.12.2019
Spain - Occupational Exposure Limits	
Local name	Etanol (Alcohol etílico)
VLA-ED (mg/m ³)	1910 mg/m ³
VLA-ED (ppm)	1000 ppm
VLA-EC (mg/m ³)	1910 mg/m ³
VLA-EC (ppm)	1000 ppm

Paint-Riter™ Valve Action Paint Marker Fluorescent Yellow, Fluorescent Green, Fluorescent Orange, Fluorescent Pink, Ultra Violet

Safety Data Sheet

according to Regulation (EU) 2015/830

ethanol (64-17-5)	
Notes	s (Esta sustancia tiene prohibida total o parcialmente su comercialización y uso como fitosanitario y/o como biocida. Para una información detallada acerca de las prohibiciones consúltese: Base de datos de productos biocidas: http://www.msssi.gob.es/ciudadanos/productos.do?tipo=plaguicidas Base de datos de productos fitosanitarios http://www.magrama.gob.es/agricultura/pags/fitos/registro/fichas/pdf/Lista_sa.pdf).
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
Sweden - Occupational Exposure Limits	
Local name	Etanol
nivågränsvärde (NVG) (mg/m ³)	1000 mg/m ³
nivågränsvärde (NVG) (ppm)	500 ppm
kortidsvärde (KTV) (mg/m ³)	1900 mg/m ³
kortidsvärde (KTV) (ppm)	1000 ppm
Anmärkning (SE)	V (Vägledande korttidsgränsvärde ska användas som ett rekommenderat högsta värde som inte bör överskridas)
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m ³)	1920 mg/m ³
WEL TWA (ppm)	1000 ppm
Norway - Occupational Exposure Limits	
Local name	Etanol
Grænseverdier (AN) (mg/m ³)	950 mg/m ³
Grænseverdier (AN) (ppm)	500 ppm
Regulatory reference	FOR-2020-04-06-695
Switzerland - Occupational Exposure Limits	
VME [mg/m ³]	960 mg/m ³
MAK (ppm)	500 ppm
KZGW (mg/m ³)	1920 mg/m ³
KZGW (ppm)	1000 ppm
Isopropanol (67-63-0)	
Austria - Occupational Exposure Limits	
MAK [mg/m ³]	500 mg/m ³
MAK Daily average value (ppm)	200 ppm
MAK Short time value [mg/m ³]	2000 mg/m ³ max. 4x15 min./Schicht
MAK Short time value [ppm]	800 ppm max. 4x15 min./Schicht
Belgium - Occupational Exposure Limits	
Limit value [mg/m ³]	500 mg/m ³
Limit value [ppm]	200 ppm
Short time value [mg/m ³]	1000 mg/m ³
Short time value [ppm]	400 ppm
Denmark - Occupational Exposure Limits	
Local name	Isopropylalkohol (Isopropanol; 2-Propanol; sec-Propylalkohol)
Grænsevædi (8 timer) (mg/m ³)	490 mg/m ³
Grænsevædi (8 timer) (ppm)	200 ppm

Paint-Riter™ Valve Action Paint Marker Fluorescent Yellow, Fluorescent Green, Fluorescent Orange, Fluorescent Pink, Ultra Violet

Safety Data Sheet

according to Regulation (EU) 2015/830

Isopropanol (67-63-0)	
Grænsevæði (STEL) (mg/m ³)	980 mg/m ³
Grænsevæði (STEL) (ppm)	400 ppm
Regulatory reference	BEK nr 1458 af 13/12/2019
Finland - Occupational Exposure Limits	
Local name	2-Propanoli
HTP-arvo (8h) (mg/m ³)	500 mg/m ³
HTP-arvo (8h) (ppm)	200 ppm
HTP-arvo (15 min)	620 mg/m ³
HTP-arvo (15 min) (ppm)	250 ppm
France - Occupational Exposure Limits	
Local name	Alcool isopropylique
VLE [mg/m ³]	980 mg/m ³
VLE [ppm]	400 ppm
Note (FR)	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Germany - Occupational Exposure Limits (TRGS 900)	
TRGS 900 Local name	Propan-2-ol
Occupational exposure limit value (mg/m ³)	500 mg/m ³
Occupational exposure limit value (ppm)	200 ppm
Peak exposure limitation factor	2(II)
TRGS 900 Remark	DFG;Y
TRGS 900 Regulatory reference	TRGS900
Germany - Biological limit values (TRGS 903)	
TRGS 903 Biological limit value	50 mg/l Aceton (Blut; Expositionsende bzw. Schichtende)
Hungary - Occupational Exposure Limits	
Local name	IZOPROPIL-ALKOHOL
AK-érték	500 mg/m ³
CK-érték	1000 mg/m ³
Megjegyzések (HU)	b (Bőrön át is felszívódik), i (ingerlő anyag, amely izgatja a bőrt, nyálkahártyát, szemet vagy mindhármát); R (Azok az anyagok, amelyek egészségkárosító hatása RÖVID expozíció hatására jelentkezik)
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
Hungary - Biological limit values	
Local name	Izopropil-alkohol (2-Propanol)
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (ppm)	200 ppm
OEL (15 min ref) (ppm)	400 ppm
Notes (IE)	Sk
Latvia - Occupational Exposure Limits	
Local name	Izopropanols (2-propanols, izopropilspirts, 1-metil-1-etanols)
OEL TWA (mg/m ³)	350 mg/m ³

Paint-Riter™ Valve Action Paint Marker Fluorescent Yellow, Fluorescent Green, Fluorescent Orange, Fluorescent Pink, Ultra Violet

Safety Data Sheet

according to Regulation (EU) 2015/830

Isopropanol (67-63-0)	
OEL STEL (mg/m ³)	600 mg/m ³
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2011. gada 1. februārī noteikumiem Nr. 92)
Lithuania - Occupational Exposure Limits	
IPRV (mg/m ³)	350 mg/m ³
IPRV (ppm)	150 ppm
TPRV (mg/m ³)	600 mg/m ³
TPRV (ppm)	250 ppm
Netherlands - Occupational Exposure Limits	
Grenswaarde TGG 8H (mg/m ³)	650 mg/m ³
Grenswaarde TGG 8H (ppm)	250 ppm
Poland - Occupational Exposure Limits	
Local name	Propan-2-ol (izopropylowy alkohol)
NDS (mg/m ³)	900 mg/m ³
NDSCh (mg/m ³)	1200 mg/m ³
Remark (PL)	Skóra (Oznakowanie substancji notacją „skóra” oznacza, że wchłanianie substancji przez skórę może być tak samo istotne jak przy narażeniu drogą oddechową).
Regulatory reference	Dz. U. 2018 poz. 1286
Portugal - Occupational Exposure Limits	
Local name	2-Propanol (isopropanol ou álcool isopropílico)
OEL TWA (ppm)	200 ppm
OEL STEL (ppm)	400 ppm
Regulatory reference	Norma Portuguesa NP 1796:2014
Portugal - Biological limit values	
Local name	2-Propanol
Portugal (BEI)	40 mg/l Parâmetro: Acetona - Meio: urina - Momento da amostragem: Fim do turno no fim da semana de trabalho - Notação: Vb (Valor basal), Ne (Não específico)
Regulatory reference	Norma Portuguesa NP 1796:2014
Slovakia - Occupational Exposure Limits	
Local name	Izopropylalkohol (propán-2-ol)
NPHV (priemerná) (mg/m ³)	500 mg/m ³
NPHV (priemerná) (ppm)	200 ppm
OEL STEL (mg/m ³)	1000 mg/m ³
OEL STEL (ppm)	400 ppm
Regulatory reference	Nariadenie vlády č. 33/2018 Z. z.
Slovenia - Occupational Exposure Limits	
Local name	propan-2-ol (izopropilalkohol; izopropanol)
OEL TWA (mg/m ³)	500 mg/m ³
OEL TWA (ppm)	200 ppm
OEL STEL (mg/m ³)	1000 mg/m ³
OEL STEL (ppm)	400 ppm
Remark (SI)	Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti), BAT (Biološka mejna vrednost)
Regulatory reference	Uradni list RS, št. 78/2019 z dne 20.12.2019

Paint-Riter™ Valve Action Paint Marker Fluorescent Yellow, Fluorescent Green, Fluorescent Orange, Fluorescent Pink, Ultra Violet

Safety Data Sheet

according to Regulation (EU) 2015/830

Isopropanol (67-63-0)	
Slovenia - Biological limit values	
Local name	2-propanol
Regulatory reference	Uradni list RS, št. 78/2018 z dne 4.12.2018
Spain - Occupational Exposure Limits	
Local name	Isopropanol (Alcohol isopropílico)
VLA-ED (mg/m ³)	500 mg/m ³
VLA-ED (ppm)	200 ppm
VLA-EC (mg/m ³)	1000 mg/m ³
VLA-EC (ppm)	400 ppm
Notes	VLB® (Agente químico que tiene Valor Límite Biológico), s (Esta sustancia tiene prohibida total o parcialmente su comercialización y uso como fitosanitario y/o como biocida. Para una información detallada acerca de las prohibiciones consúltese: Base de datos de productos biocidas: http://www.msssi.gob.es/ciudadanos/productos.do?tipo=plaguicidas Base de datos de productos fitosanitarios http://www.magrama.gob.es/agricultura/pags/fitos/registro/fichas/pdf/Lista_sa.pdf).
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
Spain - Biological limit values	
Local name	Isopropanol (Alcohol isopropílico)
Spain - BLV	40 mg/l Parámetro: Acetona - Medio: Orina - Momento de muestreo: Final de la semana laboral - Notas: F (Fondo. El indicador está generalmente presente en cantidades detectables en personas no expuestas laboralmente. Estos niveles de fondo están considerados en el valor VLB), I (Significa que el indicador biológico es inespecífico puesto que puede encontrarse después de la exposición a otros agentes químicos)
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
Sweden - Occupational Exposure Limits	
Local name	Isopropanol
nivågränsvärde (NVG) (mg/m ³)	350 mg/m ³
nivågränsvärde (NVG) (ppm)	150 ppm
kortidsvärde (KTV) (mg/m ³)	600 mg/m ³
kortidsvärde (KTV) (ppm)	250 ppm
Anmärkning (SE)	V (Vägledande kortidsgränsvärde ska användas som ett rekommenderat högsta värde som inte bör överskridas)
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m ³)	999 mg/m ³
WEL TWA (ppm)	400 ppm
WEL STEL (mg/m ³)	1250 mg/m ³
WEL STEL [ppm]	500 ppm
Norway - Occupational Exposure Limits	
Local name	2-propanol (Isopropanol)
Grenseverdier (AN) (mg/m ³)	245 mg/m ³
Grenseverdier (AN) (ppm)	100 ppm
Regulatory reference	FOR-2020-04-06-695
Switzerland - Occupational Exposure Limits	
VME [mg/m ³]	500 mg/m ³

Paint-Riter™ Valve Action Paint Marker Fluorescent Yellow, Fluorescent Green, Fluorescent Orange, Fluorescent Pink, Ultra Violet

Safety Data Sheet

according to Regulation (EU) 2015/830

Isopropanol (67-63-0)	
MAK (ppm)	200 ppm 25 ppm acetone (urina; fine dell'esposizione / del turno) 25 ppm acetone (sangue; fine dell'esposizione / del turno)
KZGW (mg/m ³)	1000 mg/m ³ max. 4x15 min./turno
KZGW (ppm)	400 ppm max. 4x15 min./turno

propyl acetate (109-60-4)	
Austria - Occupational Exposure Limits	
Remark (AT)	(gemessen als Momentanwert)
Czech Republic - Occupational Exposure Limits	
Local name	n-Propylacetát
Expoziční limity (PEL) (mg/m ³)	800 mg/m ³
Expoziční limity (PEL) (ppm)	190 ppm
Expoziční limity (NPK-P) (mg/m ³)	1000 mg/m ³
Expoziční limity (NPK-P) (ppm)	240 ppm
Remark (CZ)	I
Denmark - Occupational Exposure Limits	
Local name	n-Propylacetat
Grænsevædi (8 timer) (mg/m ³)	625 mg/m ³
Grænsevædi (8 timer) (ppm)	150 ppm
Grænsevædi (STEL) (mg/m ³)	1250 mg/m ³
Grænsevædi (STEL) (ppm)	300 ppm
Finland - Occupational Exposure Limits	
Local name	1-Propyylisetaatti
HTP-arvo (8h) (mg/m ³)	420 mg/m ³
HTP-arvo (8h) (ppm)	100 ppm
HTP-arvo (15 min)	850 mg/m ³
HTP-arvo (15 min) (ppm)	200 ppm
France - Occupational Exposure Limits	
Local name	Acétate de n-propyle
VME [mg/m ³]	840 mg/m ³
VME [ppm]	200 ppm
Note (FR)	Valeurs recommandées/admises
Hungary - Occupational Exposure Limits	
Local name	PROPIL-ACETÁT
AK-érték	840 mg/m ³
CK-érték	840 mg/m ³
Megjegyzések (HU)	b, i; l.
Latvia - Occupational Exposure Limits	
Local name	Propilacetāts (etiķskābespropilesteris)
OEL TWA (mg/m ³)	200 mg/m ³
Poland - Occupational Exposure Limits	
Local name	Octan propylu

Paint-Riter™ Valve Action Paint Marker Fluorescent Yellow, Fluorescent Green, Fluorescent Orange, Fluorescent Pink, Ultra Violet

Safety Data Sheet

according to Regulation (EU) 2015/830

propyl acetate (109-60-4)	
NDS (mg/m ³)	200 mg/m ³
NDSch (mg/m ³)	400 mg/m ³
Portugal - Occupational Exposure Limits	
Local name	Acetato de n-propilo
OEL TWA (ppm)	200 ppm
OEL STEL (ppm)	250 ppm
Slovakia - Occupational Exposure Limits	
Local name	Propylacetát (octan propylový)
NPHV (priemerná) (mg/m ³)	400 mg/m ³
NPHV (priemerná) (ppm)	100 ppm
OEL STEL (mg/m ³)	800 mg/m ³
OEL STEL (ppm)	200 ppm
Slovenia - Occupational Exposure Limits	
Local name	propilacetat
OEL TWA (mg/m ³)	420 mg/m ³
OEL TWA (ppm)	100 ppm
OEL STEL (mg/m ³)	420 mg/m ³
OEL STEL (ppm)	100 ppm
Spain - Occupational Exposure Limits	
Local name	Acetato de n-propilo
VLA-ED (mg/m ³)	849 mg/m ³
VLA-ED (ppm)	200 ppm
VLA-EC (mg/m ³)	1060 mg/m ³
VLA-EC (ppm)	250 ppm
Sweden - Occupational Exposure Limits	
Local name	Propylacetat
nivågränsvärde (NVG) (mg/m ³)	400 mg/m ³
nivågränsvärde (NVG) (ppm)	100 ppm
kortidsvärde (KTV) (mg/m ³)	800 mg/m ³
kortidsvärde (KTV) (ppm)	200 ppm
Anmärkning (SE)	V (Vägledande korttidsgränsvärde ska användas som ett rekommenderat högsta värde som inte bör överskridas)
Norway - Occupational Exposure Limits	
Local name	n-propylacetat
Grenseverdier (AN) (mg/m ³)	420 mg/m ³
Grenseverdier (AN) (ppm)	100 ppm

8.2. Exposure controls

Appropriate engineering controls:

Provide local exhaust ventilation of closed transfer systems to minimize exposures. Avoid creating mist or spray. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Personal protective equipment:

Avoid all unnecessary exposure.

Paint-Riter™ Valve Action Paint Marker Fluorescent Yellow, Fluorescent Green, Fluorescent Orange, Fluorescent Pink, Ultra Violet

Safety Data Sheet

according to Regulation (EU) 2015/830

Hand protection:

In case of repeated or prolonged contact wear gloves. Butyl rubber gloves. short term. nitrile rubber gloves. EN374

Eye protection:

Chemical goggles or safety glasses. EN166

Respiratory protection:

None under normal use

Consumer exposure controls:

Keep out of reach of children.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Solid marker containing liquid colored paint.
Colour	: Variable.
Odour	: Solvent.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: < 1
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 78.3 °C
Flash point	: 12.2 °C
Auto-ignition temperature	: 287 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: Flammable liquid and vapour.
Vapour pressure	: 11.8
Relative vapour density at 20 °C	: No data available
Relative density	: 1 – 1.33
Solubility	: insoluble in water.
Log Pow	: 0.7
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

VOC content : 50 – 60 %

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known.

10.2. Chemical stability

Flammable liquid and vapour.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Open flame. Overheating. Direct sunlight. Heat. Sparks.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

May release flammable gases. Burning produces irritating, toxic and noxious fumes. Carbon oxides (CO, CO₂).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met)

Paint-Riter™ Valve Action Paint Marker Fluorescent Yellow, Fluorescent Green, Fluorescent Orange, Fluorescent Pink, Ultra Violet

Safety Data Sheet

according to Regulation (EU) 2015/830

Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

1-Methoxy-2-propanol (107-98-2)	
LD50 oral rat	4016 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg bodyweight
LC50 Inhalation - Rat [ppm]	> 7000 ppm 6 hr

Ethyl acetate (141-78-6)	
LD50 oral rat	4934 mg/kg
LD50 oral	10200 mg/kg
LD50 dermal rabbit	> 20000 mg/kg
LC50 Inhalation - Rat	> 18 mg/l/4h

formaldehyde (50-00-0)	
LC50 Inhalation - Rat [ppm]	31.7 ppm

Chromium (7440-47-3)	
LD50 oral rat	> 5000 mg/kg OECD Guideline 420
LC50 Inhalation - Rat	> 5.1 mg/l/4h OECD Guideline 403

2-methylpropan-1-ol (78-83-1)	
LD50 oral rat	3350 mg/kg
LD50 dermal rabbit	2460 mg/kg
LC50 Inhalation - Rat	24.6 mg/l/4h

Acetophenone (98-86-2)	
LD50 oral rat	2081 mg/kg
LD50 dermal rat	3300 mg/kg

zinc sulphide (1314-98-3)	
LD50 oral rat	> 15000 mg/kg
LC50 Inhalation - Rat	> 5410 mg/m ³ read-across Zinc

Butyl acetate (123-86-4)	
LD50 oral rat	10760 mg/kg
LD50 dermal rabbit	> 14112 mg/kg
LC50 Inhalation - Rat	> 21 mg/l/4h

2-methoxy-1-methylethyl acetate (108-65-6)	
LD50 oral rat	8532 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 Inhalation - Rat [ppm]	4345 ppm 6 h

2-methoxypropyl acetate (70657-70-4)	
LC50 Inhalation - Rat [ppm]	2700 ppm 6 h

Paint-Riter™ Valve Action Paint Marker Fluorescent Yellow, Fluorescent Green, Fluorescent Orange, Fluorescent Pink, Ultra Violet

Safety Data Sheet

according to Regulation (EU) 2015/830

(2-Methoxymethylethoxy)-propanol (34590-94-8)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 19020 mg/kg
LC50 Inhalation - Rat	> 1667 mg/l/4h
LC50 Inhalation - Rat (Dust/Mist)	> 1667 mg/l/4h

ethanol (64-17-5)	
LD50 oral rat	10470 mg/kg
LD50 dermal rabbit	> 20000 mg/kg
LC50 Inhalation - Rat	133.8 mg/l/4h

Isopropanol (67-63-0)	
LD50 oral rat	5840 mg/kg
LD50 dermal rabbit	16.4 ml/kg
LC50 Inhalation - Rat [ppm]	> 10000 ppm/4h

propyl acetate (109-60-4)	
LD50 oral rat	8700 mg/kg
LD50 dermal rabbit	> 17800 mg/kg
LC50 Inhalation - Rat	32 mg/l/4h

4-Methyl-7-diethylaminocoumarin (91-44-1)	
LD50 oral rat	> 5000 mg/kg
Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met)
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met)
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)

formaldehyde (50-00-0)	
IARC group	1 - Carcinogenic to humans

Chromium (7440-47-3)	
IARC group	3 - Not classifiable

ethanol (64-17-5)	
IARC group	1 - Carcinogenic to humans,Alcoholic beverages

Isopropanol (67-63-0)	
IARC group	3 - Not classifiable

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)

Ethyl acetate (141-78-6)	
NOAEL (animal/male, F0/P)	26400 mg/kg
NOAEL (animal/female, F0/P)	26400 mg/kg

STOT-single exposure : May cause drowsiness or dizziness.

STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)

Paint-Riter™ Valve Action Paint Marker Fluorescent Yellow, Fluorescent Green, Fluorescent Orange, Fluorescent Pink, Ultra Violet

Safety Data Sheet

according to Regulation (EU) 2015/830

Ethyl acetate (141-78-6)

NOAEL (subchronic, oral, animal/male, 90 days)	900 mg/kg bodyweight
NOAEL (subchronic, oral, animal/female, 90 days)	900 mg/kg bodyweight

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

1-Methoxy-2-propanol (107-98-2)

LC50 fish 1	20800 mg/l
EC50 crustacea	23300 mg/l
ErC50 (algae)	> 1000 mg/l

Ethyl acetate (141-78-6)

LC50 fish 1	220 mg/l
EC50 crustacea	1200 mg/l
NOEC chronic fish	< 9.35 mg/l

formaldehyde (50-00-0)

LC50 fish 1	31.8 (21.1 – 47.7) mg/l 96 h
EC50 crustacea	1.9 mg/l 48 h

2-methylpropan-1-ol (78-83-1)

LC50 fish 1	1430 mg/l 96 h
EC50 crustacea	1100 mg/l 48 h

Acetophenone (98-86-2)

LC50 fish 1	162 mg/kg 96 h
-------------	----------------

zinc sulphide (1314-98-3)

LC50 fish 1	> 0.25 mg/l 96 h
EC50 crustacea	> 29 µg/l 48 h

2-methoxy-1-methylethyl acetate (108-65-6)

LC50 fish 1	100 – 180 mg/l
EC50 crustacea	> 500 mg/l 48 h
ErC50 (algae)	> 1000 mg/l

(2-Methoxymethylethoxy)-propanol (34590-94-8)

LC50 fish 1	> 1000 mg/l <i>Poecilia reticulata</i>
ErC50 (algae)	> 1000 mg/l

ethanol (64-17-5)

LC50 fish 1	14200 mg/l
-------------	------------

Paint-Riter™ Valve Action Paint Marker Fluorescent Yellow, Fluorescent Green, Fluorescent Orange, Fluorescent Pink, Ultra Violet

Safety Data Sheet

according to Regulation (EU) 2015/830

EC50 crustacea	5012 mg/l
----------------	-----------

Isopropanol (67-63-0)

LC50 fish 1	10000 mg/l
-------------	------------

propyl acetate (109-60-4)

LC50 fish 1	60 mg/l 96 h
-------------	--------------

EC50 crustacea	91.5 mg/l 48 h
----------------	----------------

12.2. Persistence and degradability

Paint-Riter™ Valve Action Paint Marker Fluorescent Yellow, Fluorescent Green, Fluorescent Orange, Fluorescent Pink, Ultra Violet

Persistence and degradability	Not established.
-------------------------------	------------------

1-Methoxy-2-propanol (107-98-2)

Persistence and degradability	Readily biodegradable.
-------------------------------	------------------------

Biodegradation	96 % 28 d
----------------	-----------

Ethyl acetate (141-78-6)

Persistence and degradability	Readily biodegradable.
-------------------------------	------------------------

formaldehyde (50-00-0)

Persistence and degradability	Readily biodegradable.
-------------------------------	------------------------

2-methylpropan-1-ol (78-83-1)

Biodegradation	70 (70 – 80) % 28 d
----------------	---------------------

2-methoxy-1-methylethyl acetate (108-65-6)

Persistence and degradability	Readily biodegradable.
-------------------------------	------------------------

Biodegradation	89 % 10 d
----------------	-----------

(2-Methoxymethylethoxy)-propanol (34590-94-8)

Persistence and degradability	Readily biodegradable.
-------------------------------	------------------------

ethanol (64-17-5)

Biodegradation	> 96 % 28 d
----------------	-------------

Isopropanol (67-63-0)

Persistence and degradability	Readily biodegradable.
-------------------------------	------------------------

propyl acetate (109-60-4)

Persistence and degradability	Readily biodegradable.
-------------------------------	------------------------

Biodegradation	62 % 5 d
----------------	----------

12.3. Bioaccumulative potential

Paint-Riter™ Valve Action Paint Marker Fluorescent Yellow, Fluorescent Green, Fluorescent Orange, Fluorescent Pink, Ultra Violet

Log Pow	0.7
---------	-----

Bioaccumulative potential	Not established.
---------------------------	------------------

Paint-Riter™ Valve Action Paint Marker Fluorescent Yellow, Fluorescent Green, Fluorescent Orange, Fluorescent Pink, Ultra Violet

Safety Data Sheet

according to Regulation (EU) 2015/830

1-Methoxy-2-propanol (107-98-2)

Bioaccumulative potential	Not expected to bioaccumulate.
---------------------------	--------------------------------

Ethyl acetate (141-78-6)

Bioaccumulative potential	Not expected to bioaccumulate.
---------------------------	--------------------------------

formaldehyde (50-00-0)

BCF fish 1	< 1
------------	-----

Log Pow	0.35
---------	------

2-methylpropan-1-ol (78-83-1)

Log Pow	0.76
---------	------

2-methoxy-1-methylethyl acetate (108-65-6)

Log Pow	0.43
---------	------

ethanol (64-17-5)

Bioaccumulative potential	Not expected to bioaccumulate.
---------------------------	--------------------------------

Isopropanol (67-63-0)

Bioaccumulative potential	Not expected to bioaccumulate.
---------------------------	--------------------------------

propyl acetate (109-60-4)

Log Pow	1.23
---------	------

12.4. Mobility in soil

Paint-Riter™ Valve Action Paint Marker Fluorescent Yellow, Fluorescent Green, Fluorescent Orange, Fluorescent Pink, Ultra Violet

Ecology - soil	No additional information available.
----------------	--------------------------------------

12.5. Results of PBT and vPvB assessment

Paint-Riter™ Valve Action Paint Marker Fluorescent Yellow, Fluorescent Green, Fluorescent Orange, Fluorescent Pink, Ultra Violet

PBT: not yet assessed

vPvB: not yet assessed

12.6. Other adverse effects

Additional information : No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Sewage disposal recommendations

: Do not dispose of waste into sewer.

Waste disposal recommendations

: Dispose in a safe manner in accordance with local/national regulations.

Additional information

: Handle empty containers with care because residual vapours are flammable.

European List of Waste (LoW) code

: For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.

HP Code

: HP3 - "Flammable:"

— flammable liquid waste: liquid waste having a flash point below 60 °C or waste gas oil, diesel and light heating oils having a flash point > 55 °C and ≤ 75 °C;

— flammable pyrophoric liquid and solid waste: solid or liquid waste which, even in small quantities, is liable to ignite within five minutes after coming into contact with air;

— flammable solid waste: solid waste which is readily combustible or may cause or contribute to fire through friction;

— flammable gaseous waste: gaseous waste which is flammable in air at 20 °C and a standard pressure of 101.3 kPa;

— water reactive waste: waste which, in contact with water, emits flammable gases in dangerous quantities;

— other flammable waste: flammable aerosols, flammable self-heating waste, flammable organic peroxides and flammable self-reactive waste.

Paint-Riter™ Valve Action Paint Marker Fluorescent Yellow, Fluorescent Green, Fluorescent Orange, Fluorescent Pink, Ultra Violet

Safety Data Sheet

according to Regulation (EU) 2015/830

HP5 - "Specific Target Organ Toxicity (STOT)/Aspiration Toxicity:" waste which can cause specific target organ toxicity either from a single or repeated exposure, or which cause acute toxic effects following aspiration.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR)	: UN 1263
UN-No. (IMDG)	: UN 1263
UN-No. (IATA)	: UN 1263
UN-No. (ADN)	: UN 1263
UN-No. (RID)	: UN 1263

14.2. UN proper shipping name

Proper Shipping Name (ADR)	: PAINT
Proper Shipping Name (IMDG)	: PAINT
Proper Shipping Name (IATA)	: PAINT
Proper Shipping Name (ADN)	: PAINT
Proper Shipping Name (RID)	: PAINT
Transport document description (ADR)	: UN 1263 PAINT, 3, II, (D/E)
Transport document description (IMDG)	: UN 1263 PAINT, 3, II
Transport document description (IATA)	: UN 1263 PAINT, 3, II
Transport document description (ADN)	: UN 1263 PAINT, 3, II
Transport document description (RID)	: UN 1263 PAINT, 3, II

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR)	: 3
Danger labels (ADR)	: 3



IMDG

Transport hazard class(es) (IMDG)	: 3
Danger labels (IMDG)	: 3



IATA

Transport hazard class(es) (IATA)	: 3
Danger labels (IATA)	: 3



ADN

Transport hazard class(es) (ADN)	: 3
Danger labels (ADN)	: 3

Paint-Riter™ Valve Action Paint Marker Fluorescent Yellow, Fluorescent Green, Fluorescent Orange, Fluorescent Pink, Ultra Violet

Safety Data Sheet

according to Regulation (EU) 2015/830



RID

Transport hazard class(es) (RID) : 3
Danger labels (RID) : 3



14.4. Packing group

Packing group (ADR) : II
Packing group (IMDG) : II
Packing group (IATA) : II
Packing group (ADN) : II
Packing group (RID) : II

14.5. Environmental hazards

Dangerous for the environment : No
Marine pollutant : No
Other information : No supplementary information available

14.6. Special precautions for user

Overland transport

Classification code (ADR) : F1
Special provisions (ADR) : 163, 367, 640C, 650
Limited quantities (ADR) : 5I
Excepted quantities (ADR) : E2
Packing instructions (ADR) : P001
Special packing provisions (ADR) : PP1
Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions (ADR) : T4
Portable tank and bulk container special provisions (ADR) : TP1, TP8, TP28
Tank code (ADR) : L1.5BN
Vehicle for tank carriage : FL
Transport category (ADR) : 2
Special provisions for carriage - Operation (ADR) : S2, S20
Hazard identification number (Kemler No.) : 33
Orange plates :



Tunnel restriction code (ADR) : D/E
EAC code : •3YE

Transport by sea

Special provisions (IMDG) : 163, 367
Limited quantities (IMDG) : 5 L
Excepted quantities (IMDG) : E2
Packing instructions (IMDG) : P001
Special packing provisions (IMDG) : PP1
IBC packing instructions (IMDG) : IBC02
Tank instructions (IMDG) : T4
Tank special provisions (IMDG) : TP1, TP8, TP28

Paint-Riter™ Valve Action Paint Marker Fluorescent Yellow, Fluorescent Green, Fluorescent Orange, Fluorescent Pink, Ultra Violet

Safety Data Sheet

according to Regulation (EU) 2015/830

EmS-No. (Fire) : F-E
 EmS-No. (Spillage) : S-E
 Stowage category (IMDG) : B

Air transport

PCA Excepted quantities (IATA) : E2
 PCA Limited quantities (IATA) : Y341
 PCA limited quantity max net quantity (IATA) : 1L
 PCA packing instructions (IATA) : 353
 PCA max net quantity (IATA) : 5L
 CAO packing instructions (IATA) : 364
 CAO max net quantity (IATA) : 60L
 Special provisions (IATA) : A3, A72, A192
 ERG code (IATA) : 3L

Inland waterway transport

Classification code (ADN) : F1
 Special provisions (ADN) : 163, 367, 640C, 650
 Limited quantities (ADN) : 5 L
 Excepted quantities (ADN) : E2
 Equipment required (ADN) : PP, EX, A
 Ventilation (ADN) : VE01
 Number of blue cones/lights (ADN) : 1

Rail transport

Classification code (RID) : F1
 Special provisions (RID) : 163, 367, 640C, 650
 Limited quantities (RID) : 5L
 Excepted quantities (RID) : E2
 Packing instructions (RID) : P001
 Special packing provisions (RID) : PP1
 Mixed packing provisions (RID) : MP19
 Portable tank and bulk container instructions (RID) : T4
 Portable tank and bulk container special provisions (RID) : TP1, TP8, TP28
 Tank codes for RID tanks (RID) : L1.5BN
 Transport category (RID) : 2
 Colis express (express parcels) (RID) : CE7
 Hazard identification number (RID) : 33

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

28. Substances which are classified as carcinogen category 1A or 1B in Part 3 of Annex VI to Regulation (EC) No 1272/2008 and are listed in Appendix 1 or Appendix 2, respectively.	formaldehyde
3(a) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F	Paint-Riter™ Valve Action Paint Marker Fluorescent Yellow, Fluorescent Green, Fluorescent Orange, Fluorescent Pink, Ultra Violet ; 1-Methoxy-2-propanol ; Ethyl acetate ; Methanol ; 2-methylpropan-1-ol ; Butyl acetate ; 2-methoxy-1-methylethyl acetate ; 2-methoxypropyl acetate ; ethanol ; Isopropanol ; propyl acetate
3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	Paint-Riter™ Valve Action Paint Marker Fluorescent Yellow, Fluorescent Green, Fluorescent Orange, Fluorescent Pink, Ultra Violet ; 1-Methoxy-2-propanol ; Ethyl acetate ; Methanol ; formaldehyde ; 2-methylpropan-1-ol ; Acetophenone ; Butyl acetate ; 2-methoxypropyl acetate ; Isopropanol ; propyl acetate

Paint-Riter™ Valve Action Paint Marker Fluorescent Yellow, Fluorescent Green, Fluorescent Orange, Fluorescent Pink, Ultra Violet

Safety Data Sheet

according to Regulation (EU) 2015/830

30. Substances which are classified as reproductive toxicant category 1A or 1B in Part 3 of Annex VI to Regulation (EC) No 1272/2008 and are listed in Appendix 5 or Appendix 6, respectively.	2-methoxypropyl acetate
40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.	Paint-Riter™ Valve Action Paint Marker Fluorescent Yellow, Fluorescent Green, Fluorescent Orange, Fluorescent Pink, Ultra Violet ; 1-Methoxy-2-propanol ; Ethyl acetate ; Methanol ; 2-methylpropan-1-ol ; Butyl acetate ; 2-methoxy-1-methylethyl acetate ; 2-methoxypropyl acetate ; ethanol ; Isopropanol ; propyl acetate
69. Methanol	Methanol
72. The substances listed in column 1 of the Table in Appendix 12	formaldehyde

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

VOC content : 50 – 60 %

15.1.2. National regulations

Germany

VwVwS Annex reference : WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1)

WGK remark : Classification based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen : formaldehyde, 2-methoxypropyl acetate, ethanol are listed

SZW-lijst van mutagene stoffen : 2-methoxypropyl acetate is listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : ethanol is listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : ethanol is listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : Methanol, 2-methoxypropyl acetate, ethanol are listed

Denmark

Class for fire hazard : Class I-1

Store unit : 1 liter

Classification remarks : F <Flam. Liq. 2>; Emergency management guidelines for the storage of flammable liquids must be followed

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:

	ATE: Acute Toxicity Estimate
	CAS (Chemical Abstracts Service) number
	CLP: Classification, Labelling, Packaging.
	EC50: Environmental Concentration associated with a response by 50% of the test population.
	GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).

Paint-Riter™ Valve Action Paint Marker Fluorescent Yellow, Fluorescent Green, Fluorescent Orange, Fluorescent Pink, Ultra Violet

Safety Data Sheet

according to Regulation (EU) 2015/830

	LD50: Lethal Dose for 50% of the test population
	OSHA: Occupational Safety & Health Administration
	PBT: Persistent, Bioaccumulative, Toxic
	TWA: Time Weighted Average
	TSCA: Toxic Substances Control Act

Data sources : ESIS (European chemical Substances Information System; accessed at: <http://esis.jrc.ec.europa.eu/index.php?PGM=cla>. European Chemicals Agency (ECHA) C&L Inventory database. Accessed at <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>. Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition. National Fire Protection Association. Fire Protection Guide to Hazardous Materials; 10th edition. REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

Full text of H- and EUH-statements:	
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Carc. 1B	Carcinogenicity, Category 1B
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Muta. 2	Germ cell mutagenicity, Category 2
Repr. 1B	Reproductive toxicity, Category 1B
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT SE 1	Specific target organ toxicity — single exposure, Category 1
STOT SE 2	Specific target organ toxicity — Single exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.

Paint-Riter™ Valve Action Paint Marker Fluorescent Yellow, Fluorescent Green, Fluorescent Orange, Fluorescent Pink, Ultra Violet

Safety Data Sheet

according to Regulation (EU) 2015/830

H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H360D	May damage the unborn child.
H370	Causes damage to organs.
H371	May cause damage to organs.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Flam. Liq. 2	H225	On basis of test data
STOT SE 3	H336	Calculation method

SDS Prepared by: The Redstone Group, dba SafeBridge Consultants, Inc.
110 Polaris Pkwy
Suite 200
Westerville, OH USA 43082
P: +1 (614) 923-7472
www.redstonegrp.com

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.