

Quik Stik Black, White, Lime Green, Fluorescent Yellow, Silver

Safety Data Sheet

according to Regulation (EU) 2015/830

Issue date: 3/19/2020 Version: 1.0

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

1.1. Product identifier

Product form : Mixture
Product name : Quik Stik Black, White, Lime Green, Fluorescent Yellow, Silver

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	Giflinjen 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
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

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EU Member State	Officieel adviesorgaan	Adres	Noodnummer
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]

Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Reproductive toxicity, Category 2	H361
Hazardous to the aquatic environment — Chronic Hazard, Category 3	H412

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)



Signal word (CLP)	: Warning
Hazardous ingredients	: 4-tert-butylphenol
Hazard statements (CLP)	: H315 - Causes skin irritation. H319 - Causes serious eye irritation. H361 - Suspected of damaging fertility or the unborn child. H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements (CLP)	: P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P264 - Wash hands thoroughly after handling. P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P302+P352 - IF ON SKIN: Wash with plenty of water. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 - IF exposed or concerned: Get medical advice/attention. P321 - Specific treatment (see First aid measures on this label). P332+P313 - If skin irritation occurs: Get medical advice/attention.

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P337+P313 - If eye irritation persists: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
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-butoxypropan-2-ol	(CAS-No.) 5131-66-8 (EC-No.) 225-878-4 (EC Index-No.) 603-052-00-8	30 - 40	Skin Irrit. 2, H315 Eye Irrit. 2, H319
Titanium dioxide	(CAS-No.) 13463-67-7 (EC-No.) 236-675-5	0 - 25	Not classified
aluminium powder (pyrophoric) (Note T)	(CAS-No.) 7429-90-5 (EC-No.) 231-072-3;231-072-3b (EC Index-No.) 013-001-00-6	0 - 15	Pyr. Sol. 1, H250 Water-react. 2, H261
(2-Methoxymethylethoxy)-propanol	(CAS-No.) 34590-94-8 (EC-No.) 252-104-2	5 - 10	Not classified
Carbon black	(CAS-No.) 1333-86-4 (EC-No.) 215-609-9	0 - 10	Not classified
N-Ethyl O/P Toluene Sulfonamides	(CAS-No.) 8047-99-2 (EC-No.) 232-465-2	1 - 5	Acute Tox. 3 (Dermal), H311
Silicon dioxide (amorphous)	(CAS-No.) 7631-86-9 (EC-No.) 231-545-4	0 - 5	Not classified
Aluminum hydroxide	(CAS-No.) 21645-51-2 (EC-No.) 244-492-7	0 - 5	Not classified
Triethanolamine	(CAS-No.) 102-71-6 (EC-No.) 203-049-8	0 - 2	Not classified
4-tert-butylphenol substance listed as REACH Candidate	(CAS-No.) 98-54-4 (EC-No.) 202-679-0	0.1 - 1	Skin Irrit. 2, H315 Eye Dam. 1, H318 Repr. 2, H361f Aquatic Chronic 1, H410
Aluminum oxide	(CAS-No.) 1344-28-1 (EC-No.) 215-691-6	0 - 0.5	Not classified
triphenyl phosphite	(CAS-No.) 101-02-0 (EC-No.) 202-908-4 (EC Index-No.) 015-105-00-7	0.01 - 0.2	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Diethanolamine	(CAS-No.) 111-42-2 (EC-No.) 203-868-0 (EC Index-No.) 603-071-00-1	<0.1	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 2, H373
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

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Specific concentration limits:		
Name	Product identifier	Specific concentration limits
triphenyl phosphite	(CAS-No.) 101-02-0 (EC-No.) 202-908-4 (EC Index-No.) 015-105-00-7	(5 ≤C < 100) Eye Irrit. 2, H319 (5 ≤C < 100) Skin Irrit. 2, H315
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 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'.

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.

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. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
First-aid measures after skin contact	: Wash skin thoroughly with mild soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Get medical advice/attention if you feel unwell.

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

Symptoms/effects	: Suspected of damaging fertility or the unborn child.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.

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

All treatments should be based on observed signs and symptoms of distress in the patient.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: None known.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Combustible. Combustion generates: Carbon oxides (CO, CO ₂). Nitrogen oxides. Sulphur oxides. metallic oxides.
Explosion hazard	: Product is not explosive.

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.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Wear a self contained breathing apparatus. Wear fire/flame resistant/retardant clothing. EN469.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Avoid contact with skin and eyes. Avoid creating or spreading dust.
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6.1.1. For non-emergency personnel

Protective equipment	: Chemical goggles or safety glasses. Wear suitable protective clothing and gloves.
Emergency procedures	: Evacuate unnecessary personnel.

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6.1.2. For emergency responders

Protective equipment : Chemical goggles or safety glasses. Wear suitable protective clothing and gloves.
Emergency procedures : Ventilate area.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Contain and collect as any solid.
Methods for cleaning up : Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting.

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

Precautions for safe handling : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

Hygiene measures : Wash contaminated clothing before reuse. 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 away from ignition sources. Keep container closed when not in use. Protect from sunlight.

Incompatible products : Strong oxidizers. Acids.

Incompatible materials : Sources of ignition.

7.3. Specific end use(s)

Marking.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

(2-Methoxymethylethoxy)-propanol (34590-94-8)		
EU	Local name	(2-Methoxymethylethoxy)-propanol
EU	IOELV TWA (mg/m ³)	308 mg/m ³
EU	IOELV TWA (ppm)	50 ppm
EU	Notes	Skin
Czech Republic	Local name	propanol(2-Methoxymethylethoxy)-(technická sm s isomer)
Czech Republic	Expoziční limity (PEL) (mg/m ³)	270 mg/m ³
Czech Republic	Expoziční limity (PEL) (ppm)	44.6 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m ³)	550 mg/m ³
Czech Republic	Expoziční limity (NPK-P) (ppm)	90.8 ppm
Czech Republic	Remark (CZ)	D
Denmark	Local name	Dipropylenglycolmethylether (Methoxypropoxypropanol)
Denmark	Grænseværdie (langvarig) (mg/m ³)	309 mg/m ³
Denmark	Grænseværdie (langvarig) (ppm)	50 ppm
Denmark	Grænseværdie (kortvarig) (mg/m ³)	600 mg/m ³
Denmark	Grænseværdie (kortvarig) (ppm)	100 ppm
Denmark	Anmærkninger (DK)	E (betyder, at stoffet har en EF-grænseværdi); H (betyder, at stoffet kan optages gennem huden)
Finland	Local name	(2-Metoksimetyylietoksi)-propanoli
Finland	HTP-arvo (8h) (mg/m ³)	310 mg/m ³
Finland	HTP-arvo (8h) (ppm)	50 ppm
Finland	Huomautus (FI)	iho
France	Local name	(2-méthoxyméthyléthoxy)-propanol
France	VME (mg/m ³)	308 mg/m ³
France	VME (ppm)	50 ppm
France	Note (FR)	Peau

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(2-Methoxymethylethoxy)-propanol (34590-94-8)		
Germany	TRGS 900 Local name	(2-Methoxymethylethoxy)propanol (Isomerengemisch)
Germany	Occupational exposure limit value (mg/m ³)	310 mg/m ³
Germany	Occupational exposure limit value (ppm)	50 ppm
Germany	Limitation of exposure peaks (mg/m ³)	310 mg/m ³
Germany	Limitation of exposure peaks (ppm)	50 ppm
Germany	TRGS 900 Remark	DFG,EU,11
Germany	TRGS 910 Acceptable concentration notes	
Hungary	Local name	(2-METOXIMETILETOXI)-PROPANOL (Dipropilēnglikolmonometil-éter)
Hungary	AK-érték	308 mg/m ³
Hungary	CK-érték	308 mg/m ³
Hungary	Megjegyzések (HU)	EU1
Italy	Local name	(2-metossimetiletossi)-propanolo
Italy	OEL TWA (mg/m ³)	308 mg/m ³
Italy	OEL TWA (ppm)	50 ppm
Latvia	Local name	Metoksipropoksi propanols (dipropilēnglikola monometilēteris,DPM)
Latvia	OEL TWA (mg/m ³)	308 mg/m ³
Latvia	OEL TWA (ppm)	50 ppm
Netherlands	Local name	Dipropyleenglycolmethylether
Netherlands	Grenswaarde TGG 8H (mg/m ³)	300 mg/m ³
Poland	Local name	(2-Metoksymetyloetoksy)propanol
Poland	NDS (mg/m ³)	240 mg/m ³
Poland	NDSch (mg/m ³)	480 mg/m ³
Portugal	Local name	2-Metoximetiletoxipropanol (DPGME)
Portugal	OEL TWA (ppm)	100 ppm
Portugal	OEL STEL (ppm)	150 ppm
Slovakia	Local name	2-Metoxymetyl-etoxypropanol (dipropylén glykol monometyléter)
Slovakia	NPHV (priemerná) (mg/m ³)	308 mg/m ³
Slovakia	NPHV (priemerná) (ppm)	50 ppm
Slovakia	Upozornenie (SK)	poznámka K
Slovenia	Local name	(2-metoksimetiletoksi)propanol (mešanica izomer)
Slovenia	OEL TWA (mg/m ³)	308 mg/m ³
Slovenia	OEL TWA (ppm)	50 ppm
Spain	Local name	Éter metílico de dipropilenglicol
Spain	VLA-ED (mg/m ³)	308 mg/m ³
Spain	VLA-ED (ppm)	50 ppm
Spain	Notes	vía dérmica,VLI
Sweden	Local name	Dipropylenglykolmonometyleter
Sweden	nivågränsvärde (NVG) (mg/m ³)	300 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	50 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	450 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	75 ppm
Sweden	Anmärkning (SE)	H

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(2-Methoxymethylethoxy)-propanol (34590-94-8)		
Norway	Local name	(2-metoksymetyletoksy)-propanol (Dipropylenglykolmetyleter)
Norway	Grenseverdier (AN) (mg/m ³)	300 mg/m ³
Norway	Grenseverdier (AN) (ppm)	50 ppm
Norway	Merknader (NO)	H (Kjemikalier som kan tas opp gjennom huden); E (EU har en veiledende grenseverdi for stoffet)

4-tert-butylphenol (98-54-4)		
Austria	MAK (mg/m ³)	0.5 mg/m ³ (H,Sh)
Austria	MAK (ppm)	0.08 ppm (H,Sh)
Austria	MAK Short time value (mg/m ³)	2.5 mg/m ³ max. 2x30 min./Schicht, (H,Sh)
Austria	MAK Short time value (ppm)	0.4 ppm max. 2x30 min./Schicht, (H,Sh)
Denmark	Grænseværdie (langvarig) (mg/m ³)	0.5 mg/m ³
Denmark	Grænseværdie (langvarig) (ppm)	0.08 ppm
Denmark	Grænseværdie (kortvarig) (mg/m ³)	1 mg/m ³
Denmark	Grænseværdie (kortvarig) (ppm)	0.16 ppm
Denmark	Anmærkninger (DK)	H
Germany	Occupational exposure limit value (mg/m ³)	0.5 mg/m ³
Germany	Occupational exposure limit value (ppm)	0.08 ppm
Germany	Limitation of exposure peaks (mg/m ³)	1 mg/m ³
Germany	Limitation of exposure peaks (ppm)	0.16 ppm
Germany	TRGS 900 Remark	H,Sh
Germany	TRGS 903 Biological limit value	2 mg/l
Germany	TRGS 903 Remark	PTBP (Urin; Expositionsende bzw. Schichtende)
Germany	TRGS 910 Acceptable concentration notes	
Slovakia	NPHV (priemerná) (mg/m ³)	0.5 mg/m ³
Slovakia	NPHV (priemerná) (ppm)	0.05 ppm 2 ppm (p-terc-Butylfenol ptBF)
Switzerland	VME (mg/m ³)	0.5 mg/m ³
Switzerland	MAK (ppm)	0.08 ppm 2 ppm ([Butoxyessigsäure1] (urina;)
Switzerland	KZGW (mg/m ³)	1 mg/m ³
Switzerland	KZGW (ppm)	0.16 ppm

Aluminum oxide (1344-28-1)		
Austria	MAK (mg/m ³)	10 mg/m ³ (gemessen als einatembarer Aerosolanteil) 5 mg/m ³ (alveolengängiger Anteil)
Austria	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	Limit value (mg/m ³)	10 mg/m ³
Belgium	Remark (BE)	(oxyde d') (en Al)
Denmark	Local name	Aluminiumoxid
Denmark	Grænseværdie (langvarig) (mg/m ³)	5 mg/m ³ beregnet som Al, total 2 mg/m ³ beregnet som Al, respirabel
Denmark	Grænseværdie (kortvarig) (mg/m ³)	10 mg/m ³ (total) 4 mg/m ³ (respirabel)
Denmark	Regulatory reference	BEK nr 655 af 31/05/2018

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Aluminum oxide (1344-28-1)		
France	Local name	Aluminium (Trioxyde de di-)
France	VME (mg/m ³)	10 mg/m ³
France	Note (FR)	Valeurs recommandées/admises
France	Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Germany	Occupational exposure limit value (mg/m ³)	3 mg/m ³
Germany	TRGS 900 Remark	(gemessen als alveolengängiger Staubanteil)
Germany	TRGS 910 Acceptable concentration notes	
Hungary	Local name	DIALUMÍNIUM-TRIOXID (alumínium-oxid, timföld) (Al-ra számítva)
Hungary	AK-érték	6 mg/m ³ respirábilis frakció
Hungary	Megjegyzések (HU)	(respirable aerosol)
Hungary	Regulatory reference	25/2000. (IX. 30.) EüM–SZCSM együttes rendelet a munkahelyek kémiai biztonságáról
Ireland	OEL (8 hours ref) (mg/m ³)	10 mg/m ³ (total inhalable dust) 4 mg/m ³ (respirable dust)
Lithuania	IPRV (mg/m ³)	2 mg/m ³
Lithuania	Remark (LT)	(alveolinė frakcija. Piūrėk IX skyriaus 3 pastabà.)
Poland	Local name	Tritlenek glinu
Poland	NDS (mg/m ³)	2.5 mg/m ³ w przeliczeniu na Al: frakcja wdychalna
Poland	NDSch (mg/m ³)	1.2 mg/m ³ w przeliczeniu na Al: frakcja respirabilna
Poland	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.
Poland	Regulatory reference	Dz. U. 2018 poz. 1286
Slovakia	Local name	Oxid hlinitý
Slovakia	NPHV (priemerná) (mg/m ³)	4 mg/m ³ inhalovateľná frakcia – prach 1.5 mg/m ³ respirabilná frakcia – prach
Slovakia	Regulatory reference	Nariadenie vlády č. 33/2018 Z.z.
Spain	Local name	Óxido de aluminio (Corindón)
Spain	VLA-ED (mg/m ³)	10 mg/m ³
Spain	Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
Sweden	nivågränsvärde (NVG) (mg/m ³)	5 mg/m ³ (inhalable aerosol) 2 mg/m ³ (respirable aerosol)
United Kingdom	WEL TWA (mg/m ³)	10 mg/m ³ (inhalable aerosol) 4 mg/m ³ (respirable aerosol)
Norway	Local name	Aluminiumoksid
Norway	Grenseverdier (AN) (mg/m ³)	10 mg/m ³
Norway	Merknader (NO)	1) Grenseverdien er fastsatt lik verdien for sjenerende støv
Norway	Regulatory reference	FOR-2018-08-21-1255
Switzerland	VME (mg/m ³)	3 mg/m ³
Switzerland	Remark	(respirable aerosol)

Aluminum hydroxide (21645-51-2)

Austria	MAK (ppm)	10 ppm (gemessen als einatembarer Aerosolanteil) 5 ppm (alveolengängiger Anteil)
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Aluminum hydroxide (21645-51-2)		
Austria	MAK Short time value (ppm)	20 ppm (gemessen als einatembarer Aerosolanteil) max. 2x60 min./Schicht 10 ppm (alveolengängiger Anteil) max. 2x60 min./Schicht
Germany	TRGS 910 Acceptable concentration notes	
Lithuania	IPRV (mg/m ³)	6 mg/m ³
Lithuania	Remark (LT)	F
Poland	Local name	Wodorotlenek glinu
Poland	NDS (mg/m ³)	2.5 mg/m ³ w przeliczeniu na Al: frakcja wdychalna
Poland	NDSch (mg/m ³)	1.2 mg/m ³ w przeliczeniu na Al: frakcja respirabilna
Poland	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.
Poland	Regulatory reference	Dz. U. 2018 poz. 1286
Slovakia	Local name	Hydroxid hlinitý
Slovakia	NPHV (priemerná) (mg/m ³)	4 mg/m ³ inhalovateľná frakcia – prach 1.5 mg/m ³ respirabilná frakcia – prach
Slovakia	Regulatory reference	Nariadenie vlády č. 33/2018 Z.z.
Switzerland	VME (mg/m ³)	3 mg/m ³
Switzerland	Remark	(alveolengängige Fraktion)

Diethanolamine (111-42-2)		
Austria	MAK (mg/m ³)	2 mg/m ³ (H,Sh)
Austria	MAK (ppm)	0.46 ppm (H,Sh)
Austria	MAK Short time value (mg/m ³)	4 mg/m ³ max. 4x15 min./Schicht, (H,Sh)
Austria	MAK Short time value (ppm)	0.92 ppm max. 4x15 min./Schicht, (H,Sh)
Belgium	Limit value (mg/m ³)	2 mg/m ³
Belgium	Limit value (ppm)	0.46 ppm
Belgium	Remark (BE)	D
Czech Republic	Local name	Diethanolamin
Czech Republic	Expoziční limity (PEL) (mg/m ³)	5 mg/m ³
Czech Republic	Expoziční limity (PEL) (ppm)	1.16 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m ³)	10 mg/m ³
Czech Republic	Expoziční limity (NPK-P) (ppm)	2.32 ppm
Czech Republic	Remark (CZ)	I,P
Denmark	Local name	Diethanolamin (Bis(2-hydroxyethyl)amin; Iminodiethanol)
Denmark	Grænseværdie (langvarig) (mg/m ³)	2 mg/m ³
Denmark	Grænseværdie (langvarig) (ppm)	0.46 ppm
Denmark	Grænseværdie (kortvarig) (mg/m ³)	4 mg/m ³
Denmark	Grænseværdie (kortvarig) (ppm)	0.92 ppm
Denmark	Anmærkninger (DK)	H
Finland	Local name	Dietanoliamiini
Finland	HTP-arvo (8h) (mg/m ³)	2 mg/m ³
Finland	HTP-arvo (8h) (ppm)	0.46 ppm
Finland	Huomautus (FI)	iho

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Diethanolamine (111-42-2)		
France	Local name	Diéthanolamine
France	VME (mg/m ³)	15 mg/m ³
France	VME (ppm)	3 ppm
France	Note (FR)	Valeurs recommandées/admises
Germany	TRGS 910 Acceptable concentration notes	
Ireland	OEL (8 hours ref) (mg/m ³)	1 mg/m ³
Ireland	Notes (IE)	(Inhalable Fraction and Vapour)
Lithuania	IPRV (mg/m ³)	15 mg/m ³
Lithuania	IPRV (ppm)	3 ppm
Lithuania	TPRV (mg/m ³)	30 mg/m ³
Lithuania	TPRV (ppm)	6 ppm
Lithuania	Remark (LT)	O
Poland	Local name	2,2'-Iminodietanol
Poland	NDS (mg/m ³)	9 mg/m ³
Portugal	Local name	Dietanolamina
Portugal	OEL TWA (mg/m ³)	1 mg/m ³ FIV (Fração inalável e vapor)
Slovenia	Local name	dietanolamin
Slovenia	OEL TWA (mg/m ³)	15 mg/m ³
Spain	Local name	Dietanolamina
Spain	VLA-ED (mg/m ³)	2 mg/m ³
Spain	VLA-ED (ppm)	0.46 ppm
Spain	Notes	vía dérmica,f
Sweden	Local name	Dietanolamin
Sweden	nivågränsvärde (NVG) (mg/m ³)	15 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	3 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	30 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	6 ppm
Sweden	Anmärkning (SE)	H
United Kingdom	WEL TWA (mg/m ³)	13 mg/m ³
United Kingdom	WEL TWA (ppm)	3 ppm
United Kingdom	Remark (WEL)	The UK Advisory Committee on Toxic Substances has expressed concern that, for these OELs, health may not be adequately protected because of doubts that the limit was not soundly-based. These OELs were included in the published UK 2002 list and its 2003 supplement, but are omitted from the published 2005 list.
Norway	Local name	2,2'-iminodietanol (3-azapentan-1,5-diol; Dietanolamin)
Norway	Grenseverdier (AN) (mg/m ³)	15 mg/m ³
Norway	Grenseverdier (AN) (ppm)	3 ppm
Switzerland	VME (mg/m ³)	1 mg/m ³
Switzerland	KZGW (mg/m ³)	1 mg/m ³
Switzerland	Remark	(inhalable aerosol)

Triethanolamine (102-71-6)		
Czech Republic	Local name	Triethanolamin
Czech Republic	Expoziční limity (PEL) (mg/m ³)	5 mg/m ³
Czech Republic	Expoziční limity (PEL) (ppm)	0.8 ppm

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Triethanolamine (102-71-6)		
Czech Republic	Expoziční limity (NPK-P) (mg/m ³)	10 mg/m ³
Czech Republic	Expoziční limity (NPK-P) (ppm)	1.6 ppm
Czech Republic	Remark (CZ)	D
Denmark	Local name	Triethanolamin
Denmark	Grænseværdie (langvarig) (mg/m ³)	3.1 mg/m ³
Denmark	Grænseværdie (langvarig) (ppm)	0.5 ppm
Denmark	Grænseværdie (kortvarig) (mg/m ³)	6.2 mg/m ³
Denmark	Grænseværdie (kortvarig) (ppm)	1 ppm
Finland	Local name	Trietanoliamiini
Finland	HTP-arvo (8h) (mg/m ³)	5 mg/m ³
Finland	HTP-arvo (8h) (ppm)	5 ppm
Germany	TRGS 910 Acceptable concentration notes	
Portugal	Local name	Trietanolamina
Portugal	OEL TWA (mg/m ³)	5 mg/m ³
Slovenia	Local name	2,2',2''-nitilotrietanol
Slovenia	OEL TWA (mg/m ³)	5 mg/m ³
Spain	Local name	Trietanolamina
Spain	VLA-ED (mg/m ³)	5 mg/m ³
Sweden	Local name	Trietanolamin
Sweden	nivågränsvärde (NVG) (mg/m ³)	5 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	0.8 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	10 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	1.6 ppm
Sweden	Anmärkning (SE)	(H)
Norway	Local name	Trietanolamin
Norway	Grenseverdier (AN) (mg/m ³)	5 mg/m ³

aluminium powder (pyrophoric) (7429-90-5)		
Belgium	Limit value (mg/m ³)	1 mg/m ³
Belgium	Remark (BE)	(Aluminium, métal et composés insolubles, fraction alvéolaire)
Denmark	Local name	Aluminium, pulver og støv
Denmark	Grænseværdie (langvarig) (mg/m ³)	5 mg/m ³ total
Denmark	Grænseværdie (kortvarig) (mg/m ³)	4 mg/m ³ (respirabel) 10 mg/m ³ (total)
Denmark	Regulatory reference	BEK nr 655 af 31/05/2018
Finland	HTP-arvo (8h) (mg/m ³)	2 mg/m ³
Finland	Huomautus (FI)	(Alumiini, liukoiset yhdisteet)
France	Local name	Aluminium
France	VME (mg/m ³)	10 mg/m ³ (métal) 5 mg/m ³ (pulvérulent)
France	Note (FR)	Valeurs recommandées/admises
France	Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Germany	TRGS 900 Local name	Aluminium
Germany	TRGS 903 Biological limit value	200 µg/l

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aluminium powder (pyrophoric) (7429-90-5)		
Germany	TRGS 903 Remark	Aluminium (Urin; Expositionsende bzw. Schichtende)
Germany	TRGS 910 Acceptable concentration notes	
Hungary	Local name	ALUMÍNIUM, FÉM
Hungary	AK-érték	6 mg/m ³ respirábilis frakció
Hungary	Megjegyzések (HU)	(respirábilis por)
Hungary	Regulatory reference	25/2000. (IX. 30.) EüM–SZCSM együttes rendelet a munkahelyek kémiai biztonságáról
Ireland	OEL (8 hours ref) (mg/m ³)	1 mg/m ³
Ireland	Notes (IE)	(respirable dust)
Lithuania	IPRV (mg/m ³)	2 mg/m ³ (alveoline frakcija) 1 mg/m ³ (Aliuminis (metalas) ir jo tirpus junginiai, kaip Al) 5 mg/m ³ (ákvepiamoji frakcija)
Netherlands	Grenswaarde TGG 8H (mg/m ³)	10 mg/m ³
Poland	Local name	Glin metaliczny, glin proszek (niestabilizowany)
Poland	NDS (mg/m ³)	2.5 mg/m ³ frakcja wdychalna 1.2 mg/m ³ frakcja respirabilna
Poland	Remark (PL)	Frakcja wdychalna – frakcja aerozolu wnikaąca przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia. Frakcja respirabilna – frakcja aerozolu wnikaąca do dróg oddechowych, która stwarza zagrożenie dla zdrowia po zdeponowaniu w obszarze wymiany gazowej.
Poland	Regulatory reference	Dz. U. 2018 poz. 1286
Portugal	Local name	Alumínio e compostos insolúveis, expresso em Al
Portugal	OEL TWA (mg/m ³)	1 mg/m ³ R (Fração respirável)
Slovakia	Regulatory reference	Norma Portuguesa NP 1796:2014
Slovakia	Local name	Hliník kovový
Slovakia	NPHV (priemerná) (mg/m ³)	4 mg/m ³ inhalovateľná frakcia – prach 1.5 mg/m ³ respirabilná frakcia – prach
Slovakia	NPHV (priemerná) (ppm)	60 µg/g creatinine (Hliník, M,a) 25 µg/g creatinine (Celkový, M.,d) 150 µg/g creatinine (Celkový,M,b)
Slovakia	Slovakia - BLV	60 µg/g creatinine Zisťovaný faktor: Hliník - Vyšetovaný materiál: moč - Čas odberu vzorky: a) žiadne obmedzenie
Slovakia	Regulatory reference	Nariadenie vlády č. 33/2018 Z.z.
Spain	Local name	Aluminio
Spain	VLA-ED (mg/m ³)	10 mg/m ³ (inhalable aerosol) 5 mg/m ³ (respirable aerosol)
Sweden	Local name	Aluminium, lösliga föreningar (som Al)
Sweden	nivågränsvärde (NVG) (mg/m ³)	1 mg/m ³ totaldamm
Sweden	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)
Sweden	Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
United Kingdom	WEL TWA (mg/m ³)	10 mg/m ³ (inhalable dust) 4 mg/m ³ (respirable dust)
Norway	Local name	Aluminiumpulver (pyroteknikk)

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aluminium powder (pyrophoric) (7429-90-5)		
Norway	Grønseverdier (AN) (mg/m ³)	5 mg/m ³
Norway	Merknader (NO)	(Aluminiumpulver, pyroteknikk)
Norway	Regulatory reference	FOR-2018-08-21-1255
Switzerland	VME (mg/m ³)	3 mg/m ³
Switzerland	Remark	(alveolengängiger Staub)

Silicon dioxide (amorphous) (7631-86-9)		
Austria	MAK (mg/m ³)	4 mg/m ³
Austria	Remark (AT)	(einatembare Fraktion)
Finland	HTP-arvo (8h) (mg/m ³)	5 mg/m ³
Germany	TRGS 900 Local name	Kieselsäuren, amorphe
Germany	Occupational exposure limit value (mg/m ³)	4 mg/m ³ (E)
Germany	TRGS 900 Remark	DFG;2;Y
Germany	TRGS 900 Regulatory reference	TRGS900
Germany	TRGS 910 Acceptable concentration notes	
Ireland	OEL (8 hours ref) (mg/m ³)	2.4 mg/m ³ 6 mg/m ³ (total inhalable dust)
Slovenia	Local name	silikagel
Slovenia	OEL TWA (mg/m ³)	4 mg/m ³
Slovenia	Remark (SI)	Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti)
Slovenia	Regulatory reference	Uradni list RS, št. 78/2018 z dne 4.12.2018
Spain	VLA-ED (mg/m ³)	10 mg/m ³
Spain	Notes	(respirable aerosol)
United Kingdom	WEL TWA (mg/m ³)	6 mg/m ³ (inhalable aerosol) 2.4 mg/m ³ (respirable aerosol)
Switzerland	VME (mg/m ³)	4 mg/m ³
Switzerland	Remark	(einatembarer Staub)

Titanium dioxide (13463-67-7)		
Austria	MAK (mg/m ³)	5 mg/m ³ (alveolengängiger Anteil)
Austria	MAK Short time value (mg/m ³)	10 mg/m ³ max. 2x60 min./Schicht (alveolengängiger Anteil)
Belgium	Limit value (mg/m ³)	10 mg/m ³
Belgium	Remark (BE)	(dioxyde de)
Denmark	Local name	Titandioxid
Denmark	Grænseværdie (langvarig) (mg/m ³)	6 mg/m ³ beregnet som Ti
Denmark	Grænseværdie (kortvarig) (mg/m ³)	12 mg/m ³
Denmark	Regulatory reference	BEK nr 655 af 31/05/2018
France	Local name	Titane (dioxyde de), en Ti
France	VME (mg/m ³)	10 mg/m ³
France	Note (FR)	Valeurs recommandées/admises
France	Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Germany	TRGS 910 Acceptable concentration notes	
Ireland	OEL (8 hours ref) (mg/m ³)	10 mg/m ³ total inhalable dust 4 mg/m ³ respirable dust

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Titanium dioxide (13463-67-7)		
Lithuania	IPRV (mg/m ³)	5 mg/m ³
Poland	Local name	Ditlenek tytanu
Poland	NDS (mg/m ³)	10 mg/m ³ frakcja wdychalna
Poland	Remark (PL)	Frakcja wdychalna – frakcja aerozolu wnikaćca przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia. Obowiązuje jednoczesne oznaczenie stężeń frakcji respirabilnej krzemionki krystalicznej.
Poland	Regulatory reference	Dz. U. 2018 poz. 1286
Portugal	Local name	Dióxido de titânio
Portugal	OEL TWA (mg/m ³)	10 mg/m ³
Slovakia	Regulatory reference	Norma Portuguesa NP 1796:2014
Slovakia	Local name	Oxid titaničitý
Slovakia	NPHV (priemerná) (mg/m ³)	5 mg/m ³
Slovakia	Regulatory reference	Nariadenie vlády č. 33/2018 Z.z.
Spain	Local name	Dióxido de titanio
Spain	VLA-ED (mg/m ³)	10 mg/m ³
Spain	Notes	inhalable aerosol
Spain	Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
Sweden	Local name	Titandioxid
Sweden	nivågränsvärde (NVG) (mg/m ³)	5 mg/m ³ totaldamm
Sweden	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, 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)
Sweden	Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
United Kingdom	WEL TWA (mg/m ³)	10 mg/m ³ inhalable aerosol 4 mg/m ³ respirable aerosol
Norway	Local name	Titandioksid
Norway	Grenseverdier (AN) (mg/m ³)	5 mg/m ³
Norway	Regulatory reference	FOR-2018-08-21-1255
Switzerland	VME (mg/m ³)	3 mg/m ³
Switzerland	Remark	(respirable aerosol)

formaldehyde (50-00-0)		
EU	Local name	Formaldehyde
EU	IOELV TWA (mg/m ³)	0.37 mg/m ³ 0.62 mg/m ³ (Limit value for the health care, funeral and embalming sectors until 11 July 2024)
EU	IOELV TWA (ppm)	0.3 ppm 0.5 ppm (Limit value for the health care, funeral and embalming sectors until 11 July 2024)
EU	IOELV STEL (mg/m ³)	0.74 mg/m ³
EU	IOELV STEL (ppm)	0.6 ppm
EU	Notes	Dermal sensitisation
EU	Regulatory reference	DIRECTIVE (EU) 2019/983 (amending Directive 2004/37/EC)

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formaldehyde (50-00-0)		
Austria	MAK (mg/m ³)	0.6 mg/m ³
Austria	MAK (ppm)	0.5 ppm
Austria	MAK Short time value (mg/m ³)	0.6 mg/m ³
Austria	MAK Short time value (ppm)	0.5 ppm
Austria	Remark (AT)	(gemessen als Momentanwert), (H,Sh,III B)
Czech Republic	Local name	Formaldehyd (Methanal)
Czech Republic	Expoziční limity (PEL) (mg/m ³)	0.5 mg/m ³
Czech Republic	Expoziční limity (PEL) (ppm)	0.41 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m ³)	1 mg/m ³
Czech Republic	Expoziční limity (NPK-P) (ppm)	0.81 ppm
Czech Republic	Remark (CZ)	I (dráždí sliznice (oči, dýchací cesty) resp. kůži), S (látka má senzibilizační účinek)
Czech Republic	Regulatory reference	Nařízení vlády č. 361/2007 Sb. (zpracovány změny č. 246/2018 Sb.)
Denmark	Local name	Formaldehyd (Formalin)
Denmark	Grænseværdie (langvarig) (mg/m ³)	0.4 mg/m ³
Denmark	Grænseværdie (langvarig) (ppm)	0.3 ppm
Denmark	Grænseværdie (ceiling) (ppm)	0.3 ppm
Denmark	Grænseværdie (ceiling) (mg/m ³)	0.4 mg/m ³
Denmark	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)
Denmark	Regulatory reference	BEK nr 655 af 31/05/2018
Finland	Local name	Formaldehydi
Finland	HTP-arvo (8h) (mg/m ³)	0.37 mg/m ³
Finland	HTP-arvo (8h) (ppm)	0.3 ppm
Finland	HTP-arvo (15 min)	1.2 mg/m ³
Finland	HTP-arvo (15 min) (ppm)	1 ppm
Finland	OEL Ceiling (mg/m ³)	1.2 mg/m ³
Finland	OEL Ceiling (ppm)	1 ppm
Finland	Huomautus (FI)	kattoarvo
Finland	Regulatory reference	HTP-ARVOT 2018 (Sosiaali- ja terveystieteiden ministeriö)
France	Local name	Aldéhyde formique
France	VME (ppm)	0.5 ppm
France	VLE (ppm)	1 ppm
France	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
France	Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Germany	TRGS 900 Local name	Formaldehyd
Germany	Occupational exposure limit value (mg/m ³)	0.37 mg/m ³
Germany	Occupational exposure limit value (ppm)	0.3 ppm
Germany	Limitation of exposure peaks	2(I)
Germany	TRGS 900 Remark	AGS;Sh;Y;X
Germany	TRGS 900 Regulatory reference	TRGS900
Germany	TRGS 910 Acceptable concentration notes	

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formaldehyde (50-00-0)		
Hungary	Local name	FORMALDEHID
Hungary	AK-érték	0.6 mg/m ³
Hungary	CK-érték	0.6 mg/m ³
Hungary	Megjegyzések (HU)	b (Bőrön át is felszívódik), m (maró hatású anyag, amely felmarja 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); VI. (IRREVERZIBILIS KÁROSODÁST OKOZÓ ANYAGOK)
Hungary	Regulatory reference	25/2000. (IX. 30.) EüM–SZCSM együttes rendelet a munkahelyek kémiai biztonságáról
Ireland	OEL (8 hours ref) (mg/m ³)	2.5 mg/m ³
Ireland	OEL (8 hours ref) (ppm)	2 ppm
Ireland	OEL (15 min ref) (mg/m ³)	2.5 mg/m ³
Ireland	OEL (15 min ref) (ppm)	2 ppm
Lithuania	IPRV (mg/m ³)	0.6 mg/m ³
Lithuania	IPRV (ppm)	0.5 ppm
Lithuania	NRV (mg/m ³)	1 mg/m ³
Lithuania	NRV (ppm)	1.2 ppm
Lithuania	Remark (LT)	Ū J K
Netherlands	Local name	Formaldehyde
Netherlands	Grenswaarde TGG 8H (mg/m ³)	0.15 mg/m ³
Netherlands	Grenswaarde TGG 15MIN (mg/m ³)	0.5 mg/m ³
Netherlands	Regulatory reference	Arbeidsomstandighedenregeling 2018
Poland	Local name	Formaldehyd
Poland	NDS (mg/m ³)	0.37 mg/m ³
Poland	NDSch (mg/m ³)	0.74 mg/m ³
Poland	Remark (PL)	Skóra (Oznakowanie substancji notacją „skóra” oznacza, że wchłanianie substancji przez skórę może być tak samo istotne jak przy narażeniu drogą oddechową)
Poland	Regulatory reference	Dz. U. 2018 poz. 1286
Portugal	Local name	Formaldeído
Portugal	OEL - Ceilings (mg/m ³)	0.3 mg/m ³
Portugal	OEL - Ceilings (ppm)	0.3 ppm
Slovakia	Regulatory reference	Norma Portuguesa NP 1796:2014
Slovakia	Local name	Formaldehyd (metanál)
Slovakia	NPHV (priemerná) (mg/m ³)	0.37 mg/m ³
Slovakia	NPHV (priemerná) (ppm)	0.3 ppm
Slovakia	OEL STEL (mg/m ³)	0.74 mg/m ³
Slovakia	OEL STEL (ppm)	0.6 ppm
Slovakia	Upozornenie (SK)	S - znamená, že faktor môže spôsobiť senzibilizáciu
Slovakia	Regulatory reference	Nariadenie vlády č. 33/2018 Z.z.
Slovenia	Local name	formaldehid
Slovenia	OEL TWA (mg/m ³)	0.62 mg/m ³
Slovenia	OEL TWA (ppm)	0.5 ppm
Slovenia	OEL STEL (mg/m ³)	0.62 mg/m ³

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formaldehyde (50-00-0)		
Slovenia	OEL STEL (ppm)	0.5 ppm
Spain	Local name	Formaldehído
Spain	VLA-ED (mg/m ³)	0.37 mg/m ³
Spain	VLA-ED (ppm)	0.3 ppm
Spain	VLA-EC (mg/m ³)	0.74 mg/m ³
Spain	VLA-EC (ppm)	0.6 ppm
Spain	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).
Spain	Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
Sweden	Local name	Formaldehyd
Sweden	nivågränsvärde (NVG) (mg/m ³)	0.37 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	0.3 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	0.74 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	0.6 ppm
Sweden	takgränsvärde (TGV) (mg/m ³)	0.74 mg/m ³
Sweden	takgränsvärde (TGV) (ppm)	0.6 ppm
Sweden	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)
Sweden	Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
United Kingdom	WEL TWA (mg/m ³)	2.5 mg/m ³
United Kingdom	WEL TWA (ppm)	2 ppm
United Kingdom	WEL STEL (mg/m ³)	2.5 mg/m ³
United Kingdom	WEL STEL (ppm)	2 ppm
Norway	Local name	Formaldehyd
Norway	Grenseverdier (AN) (mg/m ³)	0.6 mg/m ³

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formaldehyde (50-00-0)		
Norway	Grenseverdier (AN) (ppm)	0.5 ppm
Norway	Grenseverdier (Takverdi) (mg/m ³)	1.2 mg/m ³
Norway	Grenseverdier (Takverdi) (ppm)	1 ppm
Norway	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)
Norway	Regulatory reference	FOR-2018-08-21-1255
Switzerland	VME (mg/m ³)	0.37 mg/m ³
Switzerland	MAK (ppm)	0.3 ppm
Switzerland	KZGW (mg/m ³)	0.74 mg/m ³
Switzerland	KZGW (ppm)	0.6 ppm

Carbon black (1333-86-4)		
Belgium	Limit value (mg/m ³)	3.5 mg/m ³
Denmark	Local name	Carbon black
Denmark	Grænseværdie (langvarig) (mg/m ³)	3.5 mg/m ³
Denmark	Anmærkninger (DK)	K (betyder, at stoffet anses for at kunne være kræftfremkaldende)
Denmark	Regulatory reference	BEK nr 655 af 31/05/2018
Finland	Local name	Nokimusta
Finland	HTP-arvo (8h) (mg/m ³)	3.5 mg/m ³
Finland	HTP-arvo (15 min)	7 mg/m ³
Finland	Regulatory reference	HTP-ARVOT 2018 (Sosiaali- ja terveystiete)
France	Local name	Noir de carbone
France	VME (mg/m ³)	3.5 mg/m ³
France	Note (FR)	Valeurs recommandées/admises
France	Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Germany	TRGS 910 Acceptable concentration notes	
Ireland	OEL (8 hours ref) (mg/m ³)	3.5 mg/m ³
Ireland	OEL (15 min ref) (mg/m ³)	7 mg/m ³
Poland	Local name	Sadza techniczna
Poland	NDS (mg/m ³)	4 mg/m ³ frakcja wdychalna
Poland	Remark (PL)	Frakcja wdychalna – frakcja aerozolu wnikaćca przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia.
Poland	Regulatory reference	Dz. U. 2018 poz. 1286
Portugal	Local name	Carbono, preto (Negro de fumo)
Portugal	OEL TWA (mg/m ³)	3 mg/m ³ I (Fração inalável)
Slovakia	Regulatory reference	Norma Portuguesa NP 1796:2014
Spain	Local name	Negro de humo
Spain	VLA-ED (mg/m ³)	3.5 mg/m ³
Spain	Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
Sweden	Local name	Kimrök
Sweden	nivågränsvärde (NVG) (mg/m ³)	3 mg/m ³

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Carbon black (1333-86-4)		
Sweden	Anmärkning (SE)	2 (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, 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	Local name	Carbon black
United Kingdom	WEL TWA (mg/m ³)	3.5 mg/m ³
United Kingdom	WEL STEL (mg/m ³)	7 mg/m ³
Norway	Local name	Carbon Black (lampesot)
Norway	Grænseverdier (AN) (mg/m ³)	3.5 mg/m ³
Norway	Regulatory reference	FOR-2018-08-21-1255

8.2. Exposure controls

Appropriate engineering controls:

Either local exhaust or general room ventilation is usually required.

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Wear suitable gloves. Use rubber gloves. EN 374

Eye protection:

Chemical goggles or safety glasses. EN 166

Skin and body protection:

Wear suitable protective clothing. Long sleeved protective clothing

Respiratory protection:

Where excessive vapour may result, wear approved mask. Use air-purifying respirator equipped with particulate filtering cartridges. EN 12083

Other information:

Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: A solid crayon-like marker.
Colour	: Variable.
Odour	: Solvent.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 62 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: No data available

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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	: 48.87 %

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Heat. Direct sunlight.

10.5. Incompatible materials

Strong acids. Strong oxidizers.

10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide. Nitrogen oxides. metallic oxides. Sulphur oxides.

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-butoxypropan-2-ol (5131-66-8)

LD50 oral rat	3300 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (ppm)	> 651 ppm/4h

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

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

N-Ethyl O/P Toluene Sulfonamides (8047-99-2)

LD50 oral rat	2250 mg/kg
LD50 dermal rabbit	1000 mg/kg

4-tert-butylphenol (98-54-4)

LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	> 16 g/kg
LC50 inhalation rat (mg/l)	5.6 mg/l/4h

Aluminum oxide (1344-28-1)

LD50 oral rat	> 15900 mg/kg
LC50 inhalation rat (mg/l)	7.6 mg/l/4h

Diethanolamine (111-42-2)

LD50 oral rat	1100 mg/kg
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Triethanolamine (102-71-6)	
LD50 oral rat	6400 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg

aluminium powder (pyrophoric) (7429-90-5)	
LD50 oral rat	> 15900 mg/kg bodyweight
LC50 inhalation rat (Dust/Mist - mg/l/4h)	> 10 mg/l/4h

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

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

formaldehyde (50-00-0)	
LC50 inhalation rat (ppm)	31.7 ppm

Carbon black (1333-86-4)	
LD50 oral rat	> 8000 mg/kg
LC50 inhalation rat (mg/l)	> 4.6 mg/m ³ 4 h
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
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)

Diethanolamine (111-42-2)	
IARC group	2B - Possibly carcinogenic to humans

Triethanolamine (102-71-6)	
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

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

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

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

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Reproductive toxicity	: Suspected of damaging fertility or the unborn child.
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)

Diethanolamine (111-42-2)

LOAEL (oral, rat, 90 days)	14 mg/kg bodyweight/day 14 mg/kg female; 25 mg/kg male
LOAEL (dermal, rat/rabbit, 90 days)	mg/kg bodyweight/day

Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)
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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)	: Harmful to aquatic life with long lasting effects.

1-butoxypropan-2-ol (5131-66-8)

LC50 fish 1	> 560 (560 – 1000) mg/l 96 h
EC50 crustacea	> 1000 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

4-tert-butylphenol (98-54-4)

LC50 fish 1	> 1 mg/l 96 h
EC50 crustacea	4.8 mg/l 48 h

Aluminum oxide (1344-28-1)

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

Diethanolamine (111-42-2)

LC50 fish 1	1460 mg/l 96 h
EC50 crustacea	30.1 mg/l 48 h
ErC50 (algae)	2.2 mg/l 96 h

Triethanolamine (102-71-6)

LC50 fish 1	11800 mg/l
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Silicon dioxide (amorphous) (7631-86-9)

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

12.2. Persistence and degradability

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Persistence and degradability	Not established.
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1-butoxypropan-2-ol (5131-66-8)

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

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

4-tert-butylphenol (98-54-4)

Biodegradation	60 % 28 d
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Diethanolamine (111-42-2)

Persistence and degradability	Readily biodegradable.
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Silicon dioxide (amorphous) (7631-86-9)

Persistence and degradability	Product persists.
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formaldehyde (50-00-0)

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

Carbon black (1333-86-4)

Persistence and degradability	Not readily biodegradable.
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12.3. Bioaccumulative potential

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Bioaccumulative potential	Not established.
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1-butoxypropan-2-ol (5131-66-8)

Log Pow	1.2
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4-tert-butylphenol (98-54-4)

Log Pow	3
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Diethanolamine (111-42-2)

Log Pow	-1.71
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Bioaccumulative potential	Not expected to bioaccumulate.
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Triethanolamine (102-71-6)

Log Pow	-1.75
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formaldehyde (50-00-0)

BCF fish 1	< 1
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Log Pow	0.35
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12.4. Mobility in soil

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Ecology - soil	No additional information available.
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12.5. Results of PBT and vPvB assessment

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PBT: not yet assessed

vPvB: not yet assessed

Component

4-tert-butylphenol (98-54-4)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
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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.
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 : HP4 - "Irritant — skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye.
HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment
HP10 - "Toxic for reproduction:" waste which has adverse effects on sexual function and fertility in adult males and females, as well as developmental toxicity in the offspring.

SECTION 14: Transport information

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

14.1. UN number

UN-No. (ADR) : Not regulated.
UN-No. (IMDG) : Not regulated.
UN-No. (IATA) : Not regulated.
UN-No. (ADN) : Not regulated.
UN-No. (RID) : Not regulated.

14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not regulated.
Proper Shipping Name (IMDG) : Not regulated.
Proper Shipping Name (IATA) : Not regulated.
Proper Shipping Name (ADN) : Not regulated.
Proper Shipping Name (RID) : Not regulated.

14.3. Transport hazard class(es)

ADR
Transport hazard class(es) (ADR) : Not regulated.

IMDG
Transport hazard class(es) (IMDG) : Not regulated.

IATA
Transport hazard class(es) (IATA) : Not regulated.

ADN
Transport hazard class(es) (ADN) : Not regulated.

RID
Transport hazard class(es) (RID) : Not regulated.

14.4. Packing group

Packing group (ADR) : Not regulated.
Packing group (IMDG) : Not regulated.
Packing group (IATA) : Not regulated.
Packing group (ADN) : Not regulated.
Packing group (RID) : Not regulated.

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

Not regulated.

Transport by sea

Not regulated.

Air transport

Not regulated.

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Inland waterway transport

Not regulated.

Rail transport

Not regulated.

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(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	1-butoxypropan-2-ol ; N-Ethyl O/P Toluene Sulfonamides ; formaldehyde
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.	aluminium powder (pyrophoric)
72. The substances listed in column 1 of the Table in Appendix 12	formaldehyde

Contains substance on the REACH candidate list in concentration $\geq 0.1\%$ or with a lower specific limit: 4-tert-butylphenol (EC 202-679-0, CAS 98-54-4)

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 : 48.87 %

15.1.2. National regulations

Germany

VwVwS Annex reference : WGK 2, Significantly 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 : N-Ethyl O/P Toluene Sulfonamides, formaldehyde are listed

SZW-lijst van mutagene stoffen : N-Ethyl O/P Toluene Sulfonamides is listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : 4-tert-butylphenol is listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

Denmark

Class for fire hazard : Class III-1

Store unit : 50 liter

Classification remarks : Flammable according to the Danish Ministry of Justice; Emergency management guidelines for the storage of flammable liquids must be followed

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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:

	ACGIH (American Conference of Government Industrial Hygienists)
	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
	PBT: Persistent, Bioaccumulative, Toxic
	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 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
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
Muta. 2	Germ cell mutagenicity, Category 2
Pyr. Sol. 1	Pyrophoric Solids, Category 1
Repr. 2	Reproductive toxicity, Category 2
Repr. 2	Reproductive toxicity, Category 2
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
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

Quik Stik Black, White, Lime Green, Fluorescent Yellow, Silver

Safety Data Sheet

according to Regulation (EU) 2015/830

H250	Catches fire spontaneously if exposed to air.
H261	In contact with water releases flammable gases.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic 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.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H361	Suspected of damaging fertility or the unborn child.
H361f	Suspected of damaging fertility.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

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

Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
Repr. 2	H361	Expert judgment
Aquatic Chronic 3	H412	Calculation method

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