Paint-Riter Water-Based White, Yellow, Black, Blue, Green, Purple, Orange, Pink, Red

Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 4/26/2016 Revision date: 11/20/2019 Supersedes: 10/24/2019 Version: 4.0

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

1.1. Product identifier

Product form : Article

Product name : Paint-Riter Water-Based White, Yellow, Black, Blue, Green, Purple, Orange, Pink, Red

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

1.2.1. Relevant identified uses

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/Antigifcentrum 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
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

EU Member State	Officieel adviesorgaan	Adres	Noodnummer
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]

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

EUH-statements : EUH210 - Safety data sheet available on request.
EUH208 - Contains reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)(55965-84-9), 4-[[4-(aminocarbonyl)phenyl]azo]-N-(2-ethoxyphenyl)-3-hydroxynaphthalene-2-carboxamide, C.I. Pigment Red 170 (naphthol <1%)(2786-76-7). May produce an allergic reaction.

Unknown acute toxicity (CLP: Classification, Labelling, Packaging.) - SDS : 38.61% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)
38.61% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)
38.61% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

Unknown hazards to the aquatic environment (CLP) : Contains 38.61 % of components with unknown hazards to the aquatic environment

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

Comments : Exact concentrations are withheld as trade secret.

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Titanium dioxide	(CAS-No.) 13463-67-7 (EC-No.) 236-675-5	0 - 25	Carc. 2, H351

1-Methoxy-2-propanol	(CAS-No.) 107-98-2 (EC-No.) 203-539-1 (EC Index-No.) 603-064-00-3	5 - 15	Flam. Liq. 3, H226 STOT SE 3, H336
Carbon black	(CAS-No.) 1333-86-4 (EC-No.) 215-609-9	0 - 10	Carc. 2, H351
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 - 7	Skin Sens. 1, H317
(2-Methoxymethylethoxy)-propanol	(CAS-No.) 34590-94-8 (EC-No.) 252-104-2	1 - 5	Not classified
Propylene glycol	(CAS-No.) 57-55-6 (EC-No.) 200-338-0	0 - 3	Not classified
Amines, tallow alkyl, ethoxylated	(CAS-No.) 61791-26-2 (EC-No.) 500-153-8	0 - 2	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Polyoxyethylene Tallow Amine (15-ethoxy)	(CAS-No.) 61791-26-2 (EC-No.) 500-153-8	0 - 2	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
ammonium hydroxide (ammonia ....%) (Note B)	(CAS-No.) 1336-21-6 (EC-No.) 215-647-6 (EC Index-No.) 007-001-01-2	0.1 - 0.9	Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400
Aluminum hydroxide	(CAS-No.) 21645-51-2 (EC-No.) 244-492-7	0 - 1	Not classified
Nonylphenol, branched, ethoxylated substance listed in REACH Annex XIV	(CAS-No.) 68412-54-4 (EC-No.) 500-209-1	0 - 1	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2-(2-ethoxyethoxy)ethanol	(CAS-No.) 111-90-0 (EC-No.) 203-919-7	<0.1	Not classified
n-butyl acrylate (Note D)	(CAS-No.) 141-32-2 (EC-No.) 205-480-7 (EC Index-No.) 607-062-00-3	<0.1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335
limestone	(CAS-No.) 1317-65-3 (EC-No.) 215-279-6	<0.1	Not classified
Silicon dioxide (cristobalite)	(CAS-No.) 14808-60-7 (EC-No.) 238-878-4	<0.1	Carc. 1A, H350i
1-Butanol	(CAS-No.) 71-36-3 (EC-No.) 200-751-6 (EC Index-No.) 603-004-00-6	<0.1	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336
acrylic acid (Note D)	(CAS-No.) 79-10-7 (EC-No.) 201-177-9 (EC Index-No.) 607-061-00-8	<0.1	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314 Aquatic Acute 1, H400
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	(CAS-No.) 55965-84-9 (EC Index-No.) 613-167-00-5	<0.001	Acute Tox. 3 (Oral), H301 Acute Tox. 2 (Dermal), H310 Acute Tox. 2 (Inhalation), H330 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)

copper dinitrate	(CAS-No.) 3251-23-8 (EC-No.) 221-838-5	<0.001	Ox. Sol. 2, H272 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Specific concentration limits:		
Name	**Product identifier**	**Specific concentration limits**
ammonium hydroxide (ammonia ....%)	(CAS-No.) 1336-21-6 (EC-No.) 215-647-6 (EC Index-No.) 007-001-01-2	(5 =<C < 100) STOT SE 3, H335
acrylic acid	(CAS-No.) 79-10-7 (EC-No.) 201-177-9 (EC Index-No.) 607-061-00-8	(1 =<C < 100) STOT SE 3, H335
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	(CAS-No.) 55965-84-9 (EC Index-No.) 613-167-00-5	(0.0015 =<C <= 100) Skin Sens. 1A, H317 (0.06 =<C < 0.6) Skin Irrit. 2, H315 (0.06 =<C < 0.6) Eye Irrit. 2, H319 (0.6 =<C <= 100) Skin Corr. 1C, H314 (0.6 =<C <= 100) Eye Dam. 1, H318

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'.

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.

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 or rash 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 : 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 after skin contact : Repeated or prolonged skin contact. May cause an allergic skin reaction. May cause moderate irritation.

Symptoms/effects after eye contact : May cause eye irritation.

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 : 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 liquid.

Explosion hazard : May form flammable/explosive vapour-air mixture.

5.3. Advice for firefighters

Firefighting instructions : Evacuate area. Exercise caution when fighting any chemical fire.

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

6.1.1. For non-emergency personnel

Protective equipment : Wear suitable gloves.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Wear suitable gloves.

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

6.2. Environmental precautions

Do not discharge into drains or the environment. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Stop leak if safe to do so.

Methods for cleaning up : Absorb and/or contain spill with inert material, then place in suitable container.

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. Keep away from Sources of ignition. No smoking.

Precautions for safe handling : Avoid all eye and skin contact and do not breathe vapour and mist. No open flames. No smoking.

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

Technical measures : Proper grounding procedures to avoid static electricity should be followed.

Storage conditions : Keep container closed when not in use. Keep in fireproof place.

Incompatible products : Strong oxidizers.

Incompatible materials : Heat sources.

Heat and ignition sources : Keep away from heat, sparks and flame.

Prohibitions on mixed storage : 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

ammonium hydroxide (ammonia ....%) (1336-21-6)		
EU	IOELV TWA (mg/m³)	14 mg/m³
EU	IOELV TWA (ppm)	20 ppm
EU	IOELV STEL (mg/m³)	36 mg/m³
EU	IOELV STEL (ppm)	50 ppm
EU	Notes	(ammonia, anhydrous)
Austria	MAK (mg/m³)	14 mg/m³
Austria	MAK (ppm)	20 ppm
Austria	MAK Short time value (mg/m³)	36 mg/m³
Austria	MAK Short time value (ppm)	50 ppm
Austria	Remark (AT)	(Ammoniak, wasserfrei)
Belgium	Limit value (mg/m³)	14 mg/m³
Belgium	Limit value (ppm)	20 ppm
Belgium	Short time value (mg/m³)	36 mg/m³
Belgium	Short time value (ppm)	50 ppm
Belgium	Remark (BE)	(ammoniak, watervrij)
Czech Republic	Expoziční limity (PEL) (mg/m³)	14 mg/m³
Czech Republic	Expoziční limity (PEL) (ppm)	20.132 ppm

ammonium hydroxide (ammonia ....%) (1336-21-6)		
Czech Republic	Expoziční limity (NPK-P) (mg/m³)	36 mg/m³
Czech Republic	Expoziční limity (NPK-P) (ppm)	51.768 ppm
Czech Republic	Remark (CZ)	(amoniak, bezvodý)
Denmark	Grænseværdie (langvarig) (mg/m³)	14 mg/m³
Denmark	Grænseværdie (langvarig) (ppm)	20 ppm
Denmark	Grænseværdie (kortvarig) (mg/m³)	28 mg/m³
Denmark	Grænseværdie (kortvarig) (ppm)	40 ppm
Denmark	Anmærkninger (DK)	(ammoniak, vandfri)
Finland	Local name	Ammoniakkiliuos
Finland	HTP-arvo (8h) (mg/m³)	14 mg/m³
Finland	HTP-arvo (8h) (ppm)	20 ppm
Finland	HTP-arvo (15 min)	36 mg/m³
Finland	HTP-arvo (15 min) (ppm)	50 ppm
Finland	Huomautus (FI)	(ammoniakki, vedetön)
Finland	Regulatory reference	HTP-ARVOT 2018 (Sosiaali- ja terveysministeriö)
France	VME (mg/m³)	7 mg/m³
France	VME (ppm)	10 ppm
France	VLE (mg/m³)	14 mg/m³
France	VLE (ppm)	20 ppm
France	Note (FR)	(ammoniac, exempt d'eau)
Germany	Occupational exposure limit value (mg/m³)	14 mg/m³
Germany	Occupational exposure limit value (ppm)	20 ppm
Germany	Limitation of exposure peaks (mg/m³)	28 mg/m³
Germany	Limitation of exposure peaks (ppm)	40 ppm
Germany	TRGS 900 Remark	(Ammoniak, wasserfrei)
Germany	TRGS 910 Acceptable concentration notes	
Hungary	AK-érték	14 mg/m³
Hungary	CK-érték	36 mg/m³
Hungary	Megjegyzések (HU)	(ammóniák, vízmentes)
Ireland	OEL (8 hours ref) (mg/m³)	14 mg/m³
Ireland	OEL (8 hours ref) (ppm)	20 ppm
Ireland	OEL (15 min ref) (mg/m3)	24 mg/m³
Ireland	OEL (15 min ref) (ppm)	35 ppm
Ireland	Notes (IE)	(ammonia, anhydrous)
Lithuania	IPRV (mg/m³)	14 mg/m³
Lithuania	IPRV (ppm)	20 ppm
Lithuania	TPRV (mg/m³)	36 mg/m³
Lithuania	TPRV (ppm)	50 ppm
Lithuania	Remark (LT)	(amoniakas, bevandenis)
Netherlands	Grenswaarde TGG 8H (mg/m³)	14 mg/m³
Netherlands	Grenswaarde TGG 15MIN (mg/m³)	36 mg/m³
Netherlands	Remark (MAC)	(ammoniac, exempt d'eau)
Slovakia	NPHV (priemerná) (mg/m³)	14 mg/m³

ammonium hydroxide (ammonia ....%) (1336-21-6)		
Slovakia	NPHV (priemerná) (ppm)	20 ppm
Slovakia	Upozornenie (SK)	(amoniak, bez vody)
Spain	VLA-ED (mg/m³)	14 mg/m³
Spain	VLA-ED (ppm)	20 ppm
Spain	VLA-EC (mg/m³)	36 mg/m³
Spain	VLA-EC (ppm)	50 ppm
Spain	Notes	(amoníaco, anhidro)
Sweden	nivågränsvärde (NVG) (mg/m³)	18 mg/m³
Sweden	nivågränsvärde (NVG) (ppm)	25 ppm
Sweden	takgränsvärde (TGV) (mg/m³)	35 mg/m³
Sweden	takgränsvärde (TGV) (ppm)	50 ppm
Sweden	Anmärkning (SE)	(ammoniak, vattenfri)
United Kingdom	WEL TWA (mg/m³)	18 mg/m³
United Kingdom	WEL TWA (ppm)	25 ppm
United Kingdom	WEL STEL (mg/m³)	25 mg/m³
United Kingdom	WEL STEL (ppm)	35 ppm
United Kingdom	Remark (WEL)	(ammonia, anhydrous)
Norway	Grenseverdier (AN) (mg/m³)	18 mg/m³
Norway	Grenseverdier (AN) (ppm)	25 ppm
Norway	Merknader (NO)	(ammoniakk, vannfri)
Switzerland	VME (mg/m³)	14 mg/m³
Switzerland	MAK (ppm)	20 ppm
Switzerland	KZGW (mg/m³)	28 mg/m³
Switzerland	KZGW (ppm)	40 ppm
Switzerland	Remark	(ammoniaca, privo di acqua)

1-Butanol (71-36-3)		
EU	Local name	n-Butyl alcohol
Austria	MAK (mg/m³)	150 mg/m³
Austria	MAK (ppm)	50 ppm
Austria	MAK Short time value (mg/m³)	600 mg/m³ max. 4x15 min./Schicht
Austria	MAK Short time value (ppm)	200 ppm max. 4x15 min./Schicht
Belgium	Limit value (mg/m³)	62 mg/m³
Belgium	Limit value (ppm)	20 ppm
Belgium	Remark (BE)	D
Czech Republic	Local name	Butanol (všechny isomery)
Czech Republic	Expoziční limity (PEL) (mg/m³)	300 mg/m³
Czech Republic	Expoziční limity (PEL) (ppm)	99 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m³)	600 mg/m³
Czech Republic	Expoziční limity (NPK-P) (ppm)	198 ppm
Czech Republic	Remark (CZ)	I
Denmark	Local name	1-Butanol (Butylalkohol)
Finland	Local name	n-Butanoli

1-Butanol (71-36-3)		
Finland	HTP-arvo (8h) (mg/m³)	150 mg/m³
Finland	HTP-arvo (8h) (ppm)	50 ppm
Finland	HTP-arvo (15 min)	230 mg/m³
Finland	HTP-arvo (15 min) (ppm)	75 ppm
Finland	Huomautus (FI)	iho
France	Local name	Alcool n-butylique
France	VLE (mg/m³)	150 mg/m³
France	VLE (ppm)	50 ppm
Germany	TRGS 900 Local name	Butan-1-ol
Germany	Occupational exposure limit value (mg/m³)	310 mg/m³
Germany	Occupational exposure limit value (ppm)	100 ppm
Germany	TRGS 903 Biological limit value	2 mg/g creatinine 1-Butanol (Urin; vor nachfolgender Schicht) 10 mg/g creatinine 1-Butanol (Urin; Expositionsende bzw. Schichtende)
Germany	TRGS 910 Acceptable concentration notes	
Hungary	Local name	n-BUTIL-ALKOHOL
Hungary	AK-érték	45 mg/m³
Hungary	CK-érték	90 mg/m³
Ireland	OEL (8 hours ref) (ppm)	20 ppm
Ireland	Notes (IE)	SK
Latvia	Local name	Butilspirti(pirmējais, otrējais,trešējais) (n-butanols,
Latvia	OEL TWA (mg/m³)	10 mg/m³
Lithuania	IPRV (mg/m³)	45 mg/m³
Lithuania	IPRV (ppm)	15 ppm
Lithuania	NRV (mg/m³)	90 mg/m³
Lithuania	NRV (ppm)	30 ppm
Lithuania	Remark (LT)	Û O
Poland	Local name	Butan-1-ol (n-butylowy alkohol)
Poland	NDS (mg/m³)	50 mg/m³
Poland	NDSCh (mg/m³)	150 mg/m³
Portugal	Local name	n-Butanol (Álcool n-butílico)
Portugal	OEL TWA (ppm)	20 ppm
Slovakia	Local name	n-Butanol
Slovakia	NPHV (priemerná) (mg/m³)	310 mg/m³ krátkodobý: kategória I.
Slovakia	NPHV (priemerná) (ppm)	100 ppm krátkodobý: kategória I. 2 ppm (M,d) 10 ppm (M,b)
Slovenia	Local name	butan-1-ol
Slovenia	OEL TWA (mg/m³)	310 mg/m³
Slovenia	OEL TWA (ppm)	100 ppm
Slovenia	OEL STEL (mg/m³)	310 mg/m³
Slovenia	OEL STEL (ppm)	100 ppm
Spain	Local name	n-Butanol (Alcohol n-butílico)
Spain	VLA-EC (mg/m³)	154 mg/m³

1-Butanol (71-36-3)		
Spain	VLA-EC (ppm)	50 ppm
Spain	Notes	vía dérmica,
Sweden	Local name	n-Butanol
Sweden	nivågränsvärde (NVG) (mg/m³)	45 mg/m³
Sweden	nivågränsvärde (NVG) (ppm)	15 ppm
Sweden	takgränsvärde (TGV) (mg/m³)	90 mg/m³
Sweden	takgränsvärde (TGV) (ppm)	30 ppm
Sweden	Anmärkning (SE)	H
United Kingdom	WEL STEL (mg/m³)	154 mg/m³
United Kingdom	WEL STEL (ppm)	50 ppm
United Kingdom	Remark (WEL)	(Sk)
Norway	Local name	Butan-1-ol
Norway	Grenseverdier (Takverdi) (mg/m³)	75 mg/m³
Norway	Grenseverdier (Takverdi) (ppm)	25 ppm
Norway	Merknader (NO)	H
Switzerland	VME (mg/m³)	150 mg/m³
Switzerland	MAK (ppm)	50 ppm
Switzerland	KZGW (mg/m³)	150 mg/m³
Switzerland	KZGW (ppm)	50 ppm

2-(2-ethoxyethoxy)ethanol (111-90-0)		
Germany	Limitation of exposure peaks (mg/m³)	70 mg/m³
Germany	Limitation of exposure peaks (ppm)	12 ppm
Germany	TRGS 910 Acceptable concentration notes	
Sweden	Anmärkning (SE)	H

n-butyl acrylate (141-32-2)		
EU	Local name	n-Butylacrylate
EU	IOELV TWA (mg/m³)	11 mg/m³
EU	IOELV TWA (ppm)	2 ppm
EU	IOELV STEL (mg/m³)	53 mg/m³
EU	IOELV STEL (ppm)	10 ppm
Austria	MAK (mg/m³)	11 mg/m³ (S)
Austria	MAK (ppm)	2 ppm (S)
Austria	MAK Short time value (mg/m³)	53 mg/m³ max. 4x15 min./Schicht, (S)
Austria	MAK Short time value (ppm)	10 ppm max. 4x15 min./Schicht, (S)
Belgium	Limit value (mg/m³)	11 mg/m³
Belgium	Limit value (ppm)	2 ppm
Belgium	Short time value (mg/m³)	53 mg/m³
Belgium	Short time value (ppm)	10 ppm
Czech Republic	Local name	n-Butylakrylát
Czech Republic	Expoziční limity (PEL) (mg/m³)	10 mg/m³
Czech Republic	Expoziční limity (PEL) (ppm)	1.9 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m³)	20 mg/m³

n-butyl acrylate (141-32-2)		
Czech Republic	Expoziční limity (NPK-P) (ppm)	3.8 ppm
Czech Republic	Remark (CZ)	I,S
Denmark	Local name	n-Butylacrylat
Denmark	Grænseværdie (langvarig) (mg/m³)	11 mg/m³
Denmark	Grænseværdie (langvarig) (ppm)	2 ppm
Denmark	Grænseværdie (kortvarig) (mg/m³)	22 mg/m³
Denmark	Grænseværdie (kortvarig) (ppm)	4 ppm
Denmark	Anmærkninger (DK)	E (betyder, at stoffet har en EF-grænseværdi)
Finland	Local name	n-Butyyliakrylaatti
Finland	HTP-arvo (8h) (mg/m³)	11 mg/m³
Finland	HTP-arvo (8h) (ppm)	2 ppm
Finland	HTP-arvo (15 min)	53 mg/m³
Finland	HTP-arvo (15 min) (ppm)	10 ppm
France	Local name	Acrylate de n-butyle
France	VME (mg/m³)	11 mg/m³
France	VME (ppm)	2 ppm
France	VLE (mg/m³)	53 mg/m³
France	VLE (ppm)	10 ppm
France	Note (FR)	Valeurs règlementaires indicatives
Germany	TRGS 900 Local name	n-Butylacrylat
Germany	Occupational exposure limit value (mg/m³)	11 mg/m³
Germany	Occupational exposure limit value (ppm)	2 ppm
Germany	Limitation of exposure peaks (mg/m³)	22 mg/m³
Germany	Limitation of exposure peaks (ppm)	4 ppm
Germany	TRGS 900 Remark	Sh
Germany	TRGS 910 Acceptable concentration notes	
Hungary	Local name	n-BUTIL-AKRILÁT
Hungary	AK-érték	11 mg/m³
Hungary	CK-érték	53 mg/m³
Hungary	Megjegyzések (HU)	i; I.
Ireland	OEL (8 hours ref) (mg/m³)	11 mg/m³
Ireland	OEL (8 hours ref) (ppm)	2 ppm
Ireland	OEL (15 min ref) (mg/m3)	53 mg/m³
Ireland	OEL (15 min ref) (ppm)	10 ppm
Ireland	Notes (IE)	IOELV
Italy	Local name	Acrilato di n-butile
Italy	OEL TWA (mg/m³)	11 mg/m³
Italy	OEL TWA (ppm)	2 ppm
Italy	OEL STEL (mg/m³)	53 mg/m³
Italy	OEL STEL (ppm)	10 ppm
Latvia	Local name	n-Butilakrilāts
Latvia	OEL TWA (mg/m³)	11 mg/m³
Latvia	OEL TWA (ppm)	2 ppm

n-butyl acrylate (141-32-2)		
Latvia	OEL STEL (mg/m³)	53 mg/m³
Latvia	OEL STEL (ppm)	10 ppm
Lithuania	IPRV (mg/m³)	11 mg/m³
Lithuania	IPRV (ppm)	2 ppm
Lithuania	TPRV (mg/m³)	53 mg/m³
Lithuania	TPRV (ppm)	10 ppm
Lithuania	Remark (LT)	J
Netherlands	Local name	n-Butylacrylaat
Netherlands	Grenswaarde TGG 8H (mg/m³)	11 mg/m³
Netherlands	Grenswaarde TGG 15MIN (mg/m³)	53 mg/m³
Poland	Local name	Akrylan butylu
Poland	NDS (mg/m³)	11 mg/m³
Poland	NDSCh (mg/m³)	30 mg/m³
Portugal	Local name	Acrilato de n-butilo
Portugal	OEL TWA (ppm)	2 ppm
Slovakia	NPHV (priemerná) (mg/m³)	11 mg/m³
Slovakia	NPHV (priemerná) (ppm)	2 ppm
Slovakia	Upozornenie (SK)	(S)
Slovenia	Local name	n-butilakrilat
Slovenia	OEL TWA (mg/m³)	11 mg/m³
Slovenia	OEL TWA (ppm)	2 ppm
Slovenia	OEL STEL (mg/m³)	55 mg/m³
Slovenia	OEL STEL (ppm)	10 ppm
Spain	Local name	Acrilato de n-butilo
Spain	VLA-ED (mg/m³)	11 mg/m³
Spain	VLA-ED (ppm)	2 ppm
Spain	VLA-EC (mg/m³)	53 mg/m³
Spain	VLA-EC (ppm)	10 ppm
Spain	Notes	VLI, Sen
Sweden	Local name	n-Butylakrylat
Sweden	nivågränsvärde (NVG) (mg/m³)	50 mg/m³
Sweden	nivågränsvärde (NVG) (ppm)	10 ppm
Sweden	kortidsvärde (KTV) (mg/m³)	80 mg/m³
Sweden	kortidsvärde (KTV) (ppm)	15 ppm
Sweden	Anmärkning (SE)	S
United Kingdom	WEL TWA (mg/m³)	5 mg/m³
United Kingdom	WEL TWA (ppm)	1 ppm
United Kingdom	WEL STEL (mg/m³)	26 mg/m³
United Kingdom	WEL STEL (ppm)	5 ppm
Norway	Local name	Butylakrylat
Norway	Grenseverdier (AN) (mg/m³)	11 mg/m³
Norway	Grenseverdier (AN) (ppm)	2 ppm
Norway	Merknader (NO)	A

n-butyl acrylate (141-32-2)		
Switzerland	VME (mg/m³)	11 mg/m³
Switzerland	MAK (ppm)	2 ppm
Switzerland	KZGW (mg/m³)	22 mg/m³ max. 8x5 min./turno
Switzerland	KZGW (ppm)	4 ppm max. 8x5 min./turno

acrylic acid (79-10-7)		
EU	Local name	Acrylic acid; Prop-2-enoic acid
EU	IOELV TWA (mg/m³)	29 mg/m³
EU	IOELV TWA (ppm)	10 ppm
EU	IOELV STEL (mg/m³)	59 mg/m³
EU	IOELV STEL (ppm)	20 ppm
Belgium	Limit value (mg/m³)	6 mg/m³
Belgium	Limit value (ppm)	2 ppm
Belgium	Remark (BE)	D
Denmark	Local name	Acrylsyre
Denmark	Grænseværdie (langvarig) (mg/m³)	5.9 mg/m³
Denmark	Grænseværdie (langvarig) (ppm)	2 ppm
Denmark	Grænseværdie (kortvarig) (mg/m³)	11.8 mg/m³
Denmark	Grænseværdie (kortvarig) (ppm)	4 ppm
Denmark	Anmærkninger (DK)	HK
Finland	Local name	Akryylihappo
Finland	HTP-arvo (8h) (mg/m³)	6 mg/m³
Finland	HTP-arvo (8h) (ppm)	2 ppm
Finland	HTP-arvo (15 min)	45 mg/m³
Finland	HTP-arvo (15 min) (ppm)	15 ppm
France	Local name	Acide acrylique
France	VME (mg/m³)	6 mg/m³
France	VME (ppm)	2 ppm
France	VLE (mg/m³)	30 mg/m³
France	VLE (ppm)	10 ppm
France	Note (FR)	Valeurs recommandées/admises
Germany	TRGS 900 Local name	Acrylsäure
Germany	Occupational exposure limit value (mg/m³)	30 mg/m³
Germany	Occupational exposure limit value (ppm)	10 ppm
Germany	Limitation of exposure peaks (mg/m³)	30 mg/m³
Germany	Limitation of exposure peaks (ppm)	10 ppm
Germany	TRGS 900 Remark	DFG,Y
Germany	TRGS 910 Acceptable concentration notes	
Ireland	OEL (8 hours ref) (mg/m³)	6 mg/m³
Ireland	OEL (8 hours ref) (ppm)	2 ppm
Latvia	Local name	Akrilskābe (propēnskābe)
Latvia	OEL TWA (mg/m³)	5 mg/m³
Lithuania	IPRV (mg/m³)	30 mg/m³

acrylic acid (79-10-7)		
Lithuania	IPRV (ppm)	10 ppm
Lithuania	TPRV (mg/m³)	45 mg/m³
Lithuania	TPRV (ppm)	15 ppm
Lithuania	Remark (LT)	Ü
Poland	Local name	Kwas akrylowy
Poland	NDS (mg/m³)	20 mg/m³
Poland	NDSCh (mg/m³)	50 mg/m³
Portugal	Local name	Ácido acrílico
Portugal	OEL TWA (ppm)	2 ppm
Spain	Local name	Ácido acrílico
Spain	VLA-ED (mg/m³)	6 mg/m³
Spain	VLA-ED (ppm)	2 ppm
Spain	Notes	vía dérmica
Sweden	Local name	Akrylsyra
Sweden	nivågränsvärde (NVG) (mg/m³)	30 mg/m³
Sweden	nivågränsvärde (NVG) (ppm)	10 ppm
Sweden	kortidsvärde (KTV) (mg/m³)	45 mg/m³
Sweden	kortidsvärde (KTV) (ppm)	15 ppm
Sweden	Anmärkning (SE)	V (Vägledande korttidsgränsvärde ska användas som ett rekommenderat högsta värde som inte bör överskridas)
United Kingdom	WEL TWA (mg/m³)	30 mg/m³
United Kingdom	WEL TWA (ppm)	10 ppm
United Kingdom	WEL STEL (mg/m³)	60 mg/m³
United Kingdom	WEL STEL (ppm)	20 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	Akrylsyre
Norway	Grenseverdier (AN) (mg/m³)	30 mg/m³
Norway	Grenseverdier (AN) (ppm)	10 ppm
Switzerland	VME (mg/m³)	30 mg/m³
Switzerland	MAK (ppm)	10 ppm
Switzerland	KZGW (mg/m³)	30 mg/m³
Switzerland	KZGW (ppm)	10 ppm

Propylene glycol (57-55-6)		
Germany	TRGS 910 Acceptable concentration notes	
Ireland	OEL (8 hours ref) (mg/m³)	470 mg/m³ total (vapour and particulates) 10 mg/m³ particulates
Ireland	OEL (8 hours ref) (ppm)	150 ppm total (vapour and particulates)
Latvia	Local name	Propilēnglikols (1,2-propāndiols)
Latvia	OEL TWA (mg/m³)	7 mg/m³

Propylene glycol (57-55-6)		
Latvia	Regulatory reference	Ministru kabineta 2007.gada 15.maija noteikumiem Nr.325
Lithuania	IPRV (mg/m³)	7 mg/m³
Poland	Local name	Propano-1,2-diol
Poland	NDS (mg/m³)	100 mg/m³ pary i frakcja wdychalna
Poland	Remark (PL)	Frakcja wdychalna – frakcja aerozolu wnikająca przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia.
Poland	Regulatory reference	Dz. U. 2018 poz. 1286
United Kingdom	WEL TWA (mg/m³)	10 mg/m³ (particulates) 474 mg/m³ (total vapour & particulates)
United Kingdom	WEL TWA (ppm)	150 ppm (total vapour & particulates)
Norway	Local name	Propan-1,2-diol
Norway	Grenseverdier (AN) (mg/m³)	79 mg/m³
Norway	Grenseverdier (AN) (ppm)	25 ppm
Norway	Regulatory reference	FOR-2018-08-21-1255

Carbon black (1333-86-4)		
Belgium	Limit value (mg/m³)	3.5 mg/m³
Denmark	Local name	Carbon black
Denmark	Grænseværdie (langvarig) (mg/m³)	3.5 mg/m³
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/m³)	3.5 mg/m³
Finland	HTP-arvo (15 min)	7 mg/m³
Finland	Regulatory reference	HTP-ARVOT 2018 (Sosiaali- ja terveysministeriö)
France	Local name	Noir de carbone
France	VME (mg/m³)	3.5 mg/m³
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/m³)	3.5 mg/m³
Ireland	OEL (15 min ref) (mg/m3)	7 mg/m³
Poland	Local name	Sadza techniczna
Poland	NDS (mg/m³)	4 mg/m³ frakcja wdychalna
Poland	Remark (PL)	Frakcja wdychalna – frakcja aerozolu wnikająca 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/m³)	3 mg/m³ I (Fraçao inalável)
Slovakia	Regulatory reference	Norma Portuguesa NP 1796:2014
Spain	Local name	Negro de humo
Spain	VLA-ED (mg/m³)	3.5 mg/m³

Carbon black (1333-86-4)		
Spain	Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
Sweden	Local name	Kimrök
Sweden	nivågränsvärde (NVG) (mg/m³)	3 mg/m³
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/m³)	3.5 mg/m³
United Kingdom	WEL STEL (mg/m³)	7 mg/m³
Norway	Local name	Carbon Black (lampesot)
Norway	Grenseverdier (AN) (mg/m³)	3.5 mg/m³
Norway	Regulatory reference	FOR-2018-08-21-1255

limestone (1317-65-3)		
Belgium	Limit value (mg/m³)	10 mg/m³
Belgium	Remark (BE)	(carbonate de)
Germany	TRGS 910 Acceptable concentration notes	
Hungary	Local name	KALCIUM-KARBONÁT
Hungary	AK-érték	10 mg/m³
Hungary	Megjegyzések (HU)	inhalable aerosol
Hungary	Regulatory reference	25/2000. (IX. 30.) EüM–SZCSM együttes rendelet a munkahelyek kémiai biztonságáról
Ireland	OEL (8 hours ref) (mg/m³)	10 mg/m³ total inhalable dust 4 mg/m³ respirable dust
Spain	VLA-ED (mg/m³)	10 mg/m³
Spain	Notes	inhalable aerosol
United Kingdom	WEL TWA (mg/m³)	10 mg/m³ (total dust) 4 mg/m³ (respirable dust)
Switzerland	VME (mg/m³)	3 mg/m³
Switzerland	Remark	(respirable aerosol)

Silicon dioxide (cristobalite) (14808-60-7)		
EU	Local name	Silica crystaline (Quartz)
EU	IOELV TWA (mg/m³)	0.05 mg/m³ (respirable dust)
EU	Notes	(Year of adoption 2003)
EU	Regulatory reference	SCOEL Recommendations
Austria	MAK (mg/m³)	0.15 mg/m³
Austria	Remark (AT)	(alveolengängige Fraktion; Jahres-Miw)
Belgium	Limit value (mg/m³)	0.1 mg/m³
Belgium	Remark (BE)	(poussières alvéolaires)
Denmark	Local name	Kvarts

Silicon dioxide (cristobalite) (14808-60-7)		
Denmark	Grænseværdie (langvarig) (mg/m³)	0.3 mg/m³ total 0.1 mg/m³ total, respirabel
Denmark	Grænseværdie (kortvarig) (mg/m³)	0.6 mg/m³ (inhalable aerosol) 0.2 mg/m³ (K, respirable aerosol)
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	Kvartsi
Finland	HTP-arvo (8h) (mg/m³)	0.05 mg/m³ alveolijae
Finland	Huomautus (FI)	(alveolijae)
Finland	Regulatory reference	HTP-ARVOT 2018 (Sosiaali- ja terveysministeriö)
France	Local name	Quartz (Silices cristallines)
France	VME (mg/m³)	0.1 mg/m³ (fraction alvéolaire)
France	Note (FR)	Valeurs règlementaires contraignantes
France	Regulatory reference	Article R4412-149 du Code du travail (réf.: INRS ED 984, 2016)
Germany	TRGS 910 Acceptable concentration notes	
Hungary	Local name	Kvarc
Hungary	AK-érték	0.15 mg/m³
Hungary	MK-érték	0.15 mg/m³ 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/m³)	0.1 mg/m³
Lithuania	IPRV (mg/m³)	0.1 mg/m³
Lithuania	Remark (LT)	(Þiûrëk IX skyriaus 3 pastabà)
Netherlands	Local name	Silicium(di)oxide – kwarts
Netherlands	Grenswaarde TGG 8H (mg/m³)	0.075 mg/m³ (Voor respirabel stof)
Netherlands	Remark (MAC)	(Voor respirabel stof) (kankerverwekkende stoff)
Netherlands	Regulatory reference	Arbeidsomstandighedenregeling 2018
Poland	Local name	Krzemionka krystaliczna – kwarc
Poland	NDS (mg/m³)	0.1 mg/m³ frakcja respirabilna
Poland	Remark (PL)	Frakcja respirabilna – frakcja aerozolu wnikająca 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	Silica, cristalina α - Quartzo
Portugal	OEL TWA (mg/m³)	0.025 mg/m³ R (Fração respirável)
Slovakia	Regulatory reference	Norma Portuguesa NP 1796:2014
Slovakia	Local name	oxid kremičitý, kryštalický
Slovakia	NPHV (priemerná) (mg/m³)	0.1 mg/m³ respirabilná frakcia
Slovakia	Upozornenie (SK)	Kategória karcinogénov 1A – Dokázaný karcinogén pre ľudí
Slovakia	Regulatory reference	Nariadenie vlády č. 83/2015 Z. z.
Slovenia	Local name	kremen
Slovenia	OEL TWA (mg/m³)	0.05 mg/m³

Silicon dioxide (cristobalite) (14808-60-7)		
Slovenia	OEL STEL (mg/m³)	0.4 mg/m³
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	Local name	Sílice Cristalina: Cuarzo
Spain	VLA-ED (mg/m³)	0.05 mg/m³ Fracción respirable
Spain	Notes	n (En las industrias extractivas véase la Orden ITC 2585/2007, de 30 de agosto (BOE nº 315 de 7 de septiembre de 2007), por la que se aprueba la Instrucción Técnica Complementaria 2.0.02 del Reglamento General de Normas Básicas de Seguridad Minera), d (Véase UNE EN 481: Atmósferas en los puestos de trabajo. Definición de las fracciones por el tamaño de las partículas para la medición de aerosoles), y (Reclasificado, por la International Agency for Research on Cancer (IARC) de grupo 2A (probablemente carcinogénico en humanos) a grupo 1 (carcinogénico en humanos)).
Spain	Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
Sweden	Local name	Kvarts
Sweden	nivågränsvärde (NVG) (mg/m³)	0.1 mg/m³ respirabel fraktion; Se även: Kristobalit och Tridymit
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); M (Medicinska kontroller kan krävas för hantering av ämnet. Se vidare föreskrifterna om medicinska kontroller i arbetslivet. För visa ämnen ska arbetsgivaren erbjuda läkarundersökning och för andra ämnen gäller krav på periodisk läkarundersökning och tjänstbarhetsbedömning); 3 (Den respirabla fraktionen är de inhalerbara partiklar som når längst ner i luftvägarna, till alveolerna i lungorna)
Sweden	Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
Norway	Local name	α-kvarts
Norway	Grenseverdier (AN) (mg/m³)	0.3 mg/m³ Totalstøv 0.1 mg/m³ Respirabelt støv
Norway	Merknader (NO)	K (Kjemikalier som skal betraktes som kreftfremkallende); 7) Støv som inneholder α-kvarts, kristobalitt og/eller tridymitt vurderes ut fra summasjonsformel. Samtidig må verdiene for sjenerende støv overholdes
Norway	Regulatory reference	FOR-2018-08-21-1255
Switzerland	VME (mg/m³)	0.15 mg/m³
Switzerland	Remark	(respirable aerosol)

Titanium dioxide (13463-67-7)		
Austria	MAK (mg/m³)	5 mg/m³ (alveolengängiger Anteil)
Austria	MAK Short time value (mg/m³)	10 mg/m³ max. 2x60 min./Schicht (alveolengängiger Anteil)
Belgium	Limit value (mg/m³)	10 mg/m³
Belgium	Remark (BE)	(dioxyde de)
Denmark	Local name	Titandioxid
Denmark	Grænseværdie (langvarig) (mg/m³)	6 mg/m³ beregnet som Ti

Titanium dioxide (13463-67-7)		
Denmark	Grænseværdie (kortvarig) (mg/m³)	12 mg/m³
Denmark	Regulatory reference	BEK nr 655 af 31/05/2018
France	Local name	Titane (dioxyde de), en Ti
France	VME (mg/m³)	10 mg/m³
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/m³)	10 mg/m³ total inhalable dust 4 mg/m³ respirable dust
Latvia	Local name	Titāna dioksīds
Latvia	OEL TWA (mg/m³)	10 mg/m³
Latvia	Regulatory reference	Ministru kabineta 2007.gada 15.maija noteikumiem Nr.325 (Grozījumi Ministru kabineta 2011.gada 1.februārī noteikumiem Nr.92)
Lithuania	IPRV (mg/m³)	5 mg/m³
Poland	Local name	Ditlenek tytanu
Poland	NDS (mg/m³)	10 mg/m³ frakcja wdychalna
Poland	Remark (PL)	Frakcja wdychalna – frakcja aerozolu wnikająca przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia. Obowiązuje jednoczesne oznaczanie stężeń frakcji respirabilnej krzemionki krystalicznej.
Poland	Regulatory reference	Dz. U. 2018 poz. 1286
Portugal	Local name	Dióxido de titânio
Portugal	OEL TWA (mg/m³)	10 mg/m³
Slovakia	Regulatory reference	Norma Portuguesa NP 1796:2014
Slovakia	Local name	Oxid titaničitý
Slovakia	NPHV (priemerná) (mg/m³)	5 mg/m³
Slovakia	Regulatory reference	Nariadenie vlády č. 33/2018 Z.z.
Spain	Local name	Dióxido de titanio
Spain	VLA-ED (mg/m³)	10 mg/m³
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/m³)	5 mg/m³ 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/m³)	10 mg/m³ inhalable aerosol 4 mg/m³ respirable aerosol
Norway	Local name	Titandioksid
Norway	Grenseverdier (AN) (mg/m³)	5 mg/m³

Titanium dioxide (13463-67-7)		
Norway	Regulatory reference	FOR-2018-08-21-1255
Switzerland	VME (mg/m³)	3 mg/m³
Switzerland	Remark	(respirable aerosol)

Aluminum hydroxide (21645-51-2)		
Austria	MAK (ppm)	10 ppm (gemessen als einatembarer Aerosolanteil) 5 ppm (alveolengängiger Anteil)
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	
Latvia	Local name	Alumīnija hidroksīds
Latvia	OEL TWA (mg/m³)	6 mg/m³
Latvia	Regulatory reference	Ministru kabineta 2007.gada 15.maija noteikumiem Nr.325 (Grozījumi Ministru kabineta 2011.gada 1.februārī noteikumiem Nr.92)
Lithuania	IPRV (mg/m³)	6 mg/m³
Lithuania	Remark (LT)	F
Poland	Local name	Wodorotlenek glinu
Poland	NDS (mg/m³)	2.5 mg/m³ w przeliczeniu na Al: frakcja wdychalna
Poland	NDSCh (mg/m³)	1.2 mg/m³ w przeliczeniu na Al: frakcja respirabilna
Poland	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.
Poland	Regulatory reference	Dz. U. 2018 poz. 1286
Slovakia	Local name	Hydroxid hlinitý
Slovakia	NPHV (priemerná) (mg/m³)	4 mg/m³ inhalovateľná frakcia – prach 1.5 mg/m³ respirabilná frakcia – prach
Slovakia	Regulatory reference	Nariadenie vlády č. 33/2018 Z.z.
Switzerland	VME (mg/m³)	3 mg/m³
Switzerland	Remark	(alveolengängige Fraktion)

(2-Methoxymethylethoxy)-propanol (34590-94-8)		
EU	Local name	(2-Methoxymethylethoxy)-propanol
EU	IOELV TWA (mg/m³)	308 mg/m³
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/m³)	270 mg/m³
Czech Republic	Expoziční limity (PEL) (ppm)	44.6 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m³)	550 mg/m³
Czech Republic	Expoziční limity (NPK-P) (ppm)	90.8 ppm
Czech Republic	Remark (CZ)	D
Denmark	Local name	Dipropylenglycolmethylether (Methoxypropoxypropanol)

(2-Methoxymethylethoxy)-propanol (34590-94-8)		
Denmark	Grænseværdie (langvarig) (mg/m³)	309 mg/m³
Denmark	Grænseværdie (langvarig) (ppm)	50 ppm
Denmark	Grænseværdie (kortvarig) (mg/m³)	600 mg/m³
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/m³)	310 mg/m³
Finland	HTP-arvo (8h) (ppm)	50 ppm
Finland	Huomautus (FI)	iho
France	Local name	(2-méthoxyméthyléthoxy)-propanol
France	VME (mg/m³)	308 mg/m³
France	VME (ppm)	50 ppm
France	Note (FR)	Peau
Germany	TRGS 900 Local name	(2-Methoxymethylethoxy)propanol (Isomerengemisch)
Germany	Occupational exposure limit value (mg/m³)	310 mg/m³
Germany	Occupational exposure limit value (ppm)	50 ppm
Germany	Limitation of exposure peaks (mg/m³)	310 mg/m³
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 (Dipropilénglikol-monometil-éter)
Hungary	AK-érték	308 mg/m³
Hungary	CK-érték	308 mg/m³
Hungary	Megjegyzések (HU)	EU1
Italy	Local name	(2-metossimetiletossi)-propanolo
Italy	OEL TWA (mg/m³)	308 mg/m³
Italy	OEL TWA (ppm)	50 ppm
Latvia	Local name	Metoksipropoksi propanols (dipropilēnglikola monometilēteris,DPM)
Latvia	OEL TWA (mg/m³)	308 mg/m³
Latvia	OEL TWA (ppm)	50 ppm
Netherlands	Local name	Dipropyleenglycolmethylether
Netherlands	Grenswaarde TGG 8H (mg/m³)	300 mg/m³
Poland	Local name	(2-Metoksymetyloetoksy)propanol
Poland	NDS (mg/m³)	240 mg/m³
Poland	NDSCh (mg/m³)	480 mg/m³
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 mono-metyléter)
Slovakia	NPHV (priemerná) (mg/m³)	308 mg/m³
Slovakia	NPHV (priemerná) (ppm)	50 ppm

(2-Methoxymethylethoxy)-propanol (34590-94-8)		
Slovakia	Upozornenie (SK)	poznámka K
Slovenia	Local name	(2-metoksimetiletoksi)propanol (mešanica izomer)
Slovenia	OEL TWA (mg/m³)	308 mg/m³
Slovenia	OEL TWA (ppm)	50 ppm
Spain	Local name	Éter metílico de dipropilenglicol
Spain	VLA-ED (mg/m³)	308 mg/m³
Spain	VLA-ED (ppm)	50 ppm
Spain	Notes	vía dérmica,VLI
Sweden	Local name	Dipropylenglykolmonometyleter
Sweden	nivågränsvärde (NVG) (mg/m³)	300 mg/m³
Sweden	nivågränsvärde (NVG) (ppm)	50 ppm
Sweden	kortidsvärde (KTV) (mg/m³)	450 mg/m³
Sweden	kortidsvärde (KTV) (ppm)	75 ppm
Sweden	Anmärkning (SE)	H
Norway	Local name	(2-metoksymetyletoksy)-propanol (Dipropylenglykolmetyleter)
Norway	Grenseverdier (AN) (mg/m³)	300 mg/m³
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)

1-Methoxy-2-propanol (107-98-2)		
EU	Local name	1-Methoxypropanol-2
EU	IOELV TWA (mg/m³)	375 mg/m³
EU	IOELV TWA (ppm)	100 ppm
EU	IOELV STEL (mg/m³)	568 mg/m³
EU	IOELV STEL (ppm)	150 ppm
EU	Notes	Skin
Austria	MAK (mg/m³)	187 mg/m³
Austria	MAK (ppm)	50 ppm
Austria	MAK Short time value (mg/m³)	187 mg/m³
Austria	MAK Short time value (ppm)	50 ppm
Austria	Remark (AT)	(gemessen als Momentanwert), (H)
Belgium	Limit value (mg/m³)	375 mg/m³
Belgium	Limit value (ppm)	100 ppm
Belgium	Short time value (mg/m³)	568 mg/m³
Belgium	Short time value (ppm)	150 ppm
Belgium	Remark (BE)	D
Czech Republic	Local name	1-Methoxy-2-propanol
Czech Republic	Expoziční limity (PEL) (mg/m³)	270 mg/m³
Czech Republic	Expoziční limity (PEL) (ppm)	73.17 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m³)	550 mg/m³
Czech Republic	Expoziční limity (NPK-P) (ppm)	149.05 ppm
Czech Republic	Remark (CZ)	D

1-Methoxy-2-propanol (107-98-2)		
Denmark	Local name	1-Methoxy-2-propanol (Propylenglycolmonomethylether)
Denmark	Grænseværdie (langvarig) (mg/m³)	185 mg/m³
Denmark	Grænseværdie (langvarig) (ppm)	50 ppm
Denmark	Grænseværdie (kortvarig) (mg/m³)	370 mg/m³
Denmark	Grænseværdie (kortvarig) (ppm)	100 ppm
Denmark	Anmærkninger (DK)	E (betyder, at stoffet har en EF-grænseværdi)
Finland	Local name	1-Metoksi-2-propanoli
Finland	HTP-arvo (8h) (mg/m³)	370 mg/m³
Finland	HTP-arvo (8h) (ppm)	100 ppm
Finland	HTP-arvo (15 min)	560 mg/m³
Finland	HTP-arvo (15 min) (ppm)	150 ppm
Finland	Huomautus (FI)	iho
France	Local name	Ether méthylique du propylène-glycol (1-Méthoxy-2-propanol)
France	VME (mg/m³)	188 mg/m³
France	VME (ppm)	50 ppm
France	VLE (mg/m³)	375 mg/m³
France	VLE (ppm)	100 ppm
France	Note (FR)	Peau
Germany	TRGS 900 Local name	1-Methoxy-2-propanol
Germany	Occupational exposure limit value (mg/m³)	370 mg/m³
Germany	Occupational exposure limit value (ppm)	100 ppm
Germany	Limitation of exposure peaks (mg/m³)	740 mg/m³
Germany	Limitation of exposure peaks (ppm)	200 ppm
Germany	TRGS 900 Remark	DFG,EU,Y
Germany	TRGS 910 Acceptable concentration notes	
Hungary	Local name	1-METOXIPROPÁN-2-OL
Hungary	AK-érték	375 mg/m³
Hungary	CK-érték	568 mg/m³
Hungary	Megjegyzések (HU)	b; EU1
Ireland	OEL (8 hours ref) (mg/m³)	375 mg/m³
Ireland	OEL (8 hours ref) (ppm)	100 ppm
Ireland	OEL (15 min ref) (mg/m3)	568 mg/m³
Ireland	OEL (15 min ref) (ppm)	150 ppm
Italy	Local name	Metossipropanolo-2,1-
Italy	OEL TWA (mg/m³)	375 mg/m³
Italy	OEL TWA (ppm)	100 ppm
Italy	OEL STEL (mg/m³)	568 mg/m³
Italy	OEL STEL (ppm)	150 ppm
Latvia	Local name	1-Metoksi-2-propanols (propilēnglikola monometilēteris, monopropilēnglikolmetilēteris)
Latvia	OEL TWA (mg/m³)	375 mg/m³
Latvia	OEL TWA (ppm)	100 ppm
Latvia	OEL STEL (mg/m³)	568 mg/m³

1-Methoxy-2-propanol (107-98-2)		
Latvia	OEL STEL (ppm)	150 ppm
Lithuania	IPRV (mg/m³)	190 mg/m³
Lithuania	IPRV (ppm)	50 ppm
Lithuania	TPRV (mg/m³)	300 mg/m³
Lithuania	TPRV (ppm)	75 ppm
Netherlands	Local name	1-Methoxy-2-propanol
Netherlands	Grenswaarde TGG 8H (mg/m³)	375 mg/m³
Netherlands	Grenswaarde TGG 15MIN (mg/m³)	563 mg/m³
Netherlands	Remark (MAC)	(H)
Poland	Local name	1-Metoksypropan-2-ol
Poland	NDS (mg/m³)	180 mg/m³
Poland	NDSCh (mg/m³)	360 mg/m³
Portugal	Local name	1-Metoxi-2-propanol (PGME)
Portugal	OEL TWA (ppm)	50 ppm
Portugal	OEL STEL (ppm)	100 ppm
Slovakia	Local name	1-Metoxypropán-2-ol (propylénglykolmonometyléter)
Slovakia	NPHV (priemerná) (mg/m³)	375 mg/m³
Slovakia	NPHV (priemerná) (ppm)	100 ppm
Slovakia	OEL STEL (mg/m³)	568 mg/m³
Slovakia	OEL STEL (ppm)	150 ppm
Slovakia	Upozornenie (SK)	(K)
Slovenia	Local name	1-metoksi-2-propanol (propilenglikolmonometil eter)
Slovenia	OEL TWA (mg/m³)	375 mg/m³
Slovenia	OEL TWA (ppm)	100 ppm
Slovenia	OEL STEL (mg/m³)	562.5 mg/m³
Slovenia	OEL STEL (ppm)	150 ppm
Spain	Local name	1-Metoxipropan-2-ol (Éter 1-metílico de propilenglicol)
Spain	VLA-ED (mg/m³)	375 mg/m³
Spain	VLA-ED (ppm)	100 ppm
Spain	VLA-EC (mg/m³)	568 mg/m³
Spain	VLA-EC (ppm)	150 ppm
Spain	Notes	vía dérmica,VLI
Sweden	Local name	1-Metoxi-2-propanol
Sweden	nivågränsvärde (NVG) (mg/m³)	190 mg/m³
Sweden	nivågränsvärde (NVG) (ppm)	50 ppm
Sweden	kortidsvärde (KTV) (mg/m³)	300 mg/m³
Sweden	kortidsvärde (KTV) (ppm)	75 ppm
Sweden	Anmärkning (SE)	H
United Kingdom	WEL TWA (mg/m³)	375 mg/m³
United Kingdom	WEL TWA (ppm)	100 ppm
United Kingdom	WEL STEL (mg/m³)	560 mg/m³
United Kingdom	WEL STEL (ppm)	150 ppm
Norway	Local name	1-metoksy-2-propanol (Propylenglykolmonometyleter)

1-Methoxy-2-propanol (107-98-2)		
Norway	Grenseverdier (AN) (mg/m³)	180 mg/m³
Norway	Grenseverdier (AN) (ppm)	50 ppm
Norway	Merknader (NO)	H
Switzerland	VME (mg/m³)	360 mg/m³
Switzerland	MAK (ppm)	100 ppm 20 ppm (urina; fine dell'esposizione / del turno)
Switzerland	KZGW (mg/m³)	720 mg/m³
Switzerland	KZGW (ppm)	200 ppm

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)		
Austria	MAK (mg/m³)	0.05 mg/m³
Austria	Remark (AT)	(Sh,H)
Germany	TRGS 910 Acceptable concentration notes	
Switzerland	VME (mg/m³)	0.2 mg/m³ (misurato come porzione di aerosol inalabile)
Switzerland	KZGW (mg/m³)	0.4 mg/m³ (misurato come porzione di aerosol inalabile) max. 4x15 min./turno

copper dinitrate (3251-23-8)		
Finland	HTP-arvo (8h) (mg/m³)	1 mg/m³
Finland	Huomautus (FI)	Cu
Germany	TRGS 910 Acceptable concentration notes	

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:
Use rubber gloves. EN374

Eye protection:
In case of splashing or aerosol production: protective goggles. EN166

Respiratory protection:
None under normal use

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	: Liquid
Appearance	: Solid marker containing liquid colored paint.
Colour	: Variable.
Odour	: odourless.
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	: 100 °C
Flash point	: > 98.8 °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
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 : 9 - 13 %

SECTION 10: Stability and reactivity

10.1. Reactivity
No dangerous reactions known.

10.2. Chemical stability
Combustible liquid. May form flammable/explosive vapour-air mixture.

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 oxidizers.

10.6. Hazardous decomposition products
Carbon oxides (CO, CO2). May release flammable gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified (Article)
Acute toxicity (dermal)	: Not classified (Article)
Acute toxicity (inhalation)	: Not classified (Article)

ammonium hydroxide (ammonia ....%) (1336-21-6)	
LC50 inhalation rat (ppm)	5000 ppm

2-(2-ethoxyethoxy)ethanol (111-90-0)	
LD50 oral rat	6031 (4301 - 8469) mg/kg
LD50 dermal rabbit	9143 (6928 - 12060) mg/kg
LC50 inhalation rat (mg/l)	> 5.24 mg/l/4h no deaths occurred

n-butyl acrylate (141-32-2)	
LD50 oral rat	> 5000 mg/kg
LC50 inhalation rat (mg/l)	10.3 mg/l/4h

acrylic acid (79-10-7)	
LD50 oral rat	1350 mg/kg

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 (mg/l)	> 1580 mg/m³ 4 h

Propylene glycol (57-55-6)	
LD50 oral rat	20000 mg/kg bodyweight
LD50 dermal rabbit	20800 mg/kg

Polyoxyethylene Tallow Amine (15-ethoxy) (61791-26-2)	
LD50 oral rat	1000 (1000 - 2000) mg/kg

Nonylphenol, branched, ethoxylated (68412-54-4)	
LD50 oral rat	8400 mg/kg
LD50 dermal rabbit	2.5 nl/kg

Carbon black (1333-86-4)	
LD50 oral rat	> 8000 mg/kg
LC50 inhalation rat (mg/l)	> 4.6 mg/m³ 4 h

Amines, tallow alkyl, ethoxylated (61791-26-2)	
LD50 oral rat	1000 (1000 - 2000) mg/kg

limestone (1317-65-3)	
LD50 oral rat	6450 mg/kg

Titanium dioxide (13463-67-7)	
LD50 oral rat	> 5000 mg/kg
LC50 inhalation rat (mg/l)	> 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 (mg/l)	> 1667 mg/l/4h
LC50 inhalation rat (Dust/Mist - mg/l/4h)	> 1667 mg/l/4h

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

Unknown acute toxicity (CLP: Classification, Labelling, Packaging.) - SDS : 38.61% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)
38.61% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)
38.61% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

Skin corrosion/irritation : Not classified. (Article)

Serious eye damage/irritation : Not classified (Article)

Respiratory or skin sensitisation : Not classified. (Article. 4-[[4-(aminocarbonyl)phenyl]azo]-N-(2-ethoxyphenyl)-3-hydroxynaphthalene-2-carboxamide, C.I. Pigment Red 170 (naphthol <1%) not sensitizing <10%)

Germ cell mutagenicity : Not classified (Article)

Carcinogenicity : Not classified. (Article)

n-butyl acrylate (141-32-2)	
IARC group	3 - Not classifiable

acrylic acid (79-10-7)	
IARC group	3 - Not classifiable

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

Silicon dioxide (cristobalite) (14808-60-7)	
IARC group	1 - Carcinogenic to humans

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 (Article)
STOT-single exposure : Not classified (Article)
STOT-repeated exposure : Not classified (Article)
Aspiration hazard : Not classified (Article)

SECTION 12: Ecological information

12.1. Toxicity

Unknown hazards to the aquatic environment (CLP) : Contains 38.61 % of components with unknown hazards to the aquatic environment
Hazardous to the aquatic environment, short-term (acute) : Not classified
Hazardous to the aquatic environment, long-term (chronic) : Not classified.

2-(2-ethoxyethoxy)ethanol (111-90-0)	
LC50 fish 1	100 mg/l 96 h
EC50 crustacea	1982 mg/l 48 h

n-butyl acrylate (141-32-2)	
LC50 fish 1	5.2 mg/l

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

Propylene glycol (57-55-6)	
LC50 fish 1	51600 mg/l 96h Fathead minnow
EC50 crustacea	43500 mg/l 48h
EC50 other aquatic organisms 1	27300 mg/l 48h

Polyoxyethylene Tallow Amine (15-ethoxy) (61791-26-2)	
LC50 fish 1	< 1 mg/l
EC50 crustacea	< 1 mg/l

Nonylphenol, branched, ethoxylated (68412-54-4)	
LC50 fish 1	1.3 mg/l 96 h
EC50 crustacea	> 1.01 mg/l 48 h

Amines, tallow alkyl, ethoxylated (61791-26-2)	
LC50 fish 1	< 1 mg/l
EC50 crustacea	< 1 mg/l

limestone (1317-65-3)	
LC50 fish 1	> 200 mg/l

(2-Methoxymethylethoxy)-propanol (34590-94-8)	
LC50 fish 1	> 1000 mg/l Poecilia reticulata
ErC50 (algae)	> 1000 mg/l

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

copper dinitrate (3251-23-8)	
LC50 fish 1	200 µg/l 96 h

12.2. Persistence and degradability

Paint-Riter Water-Based White, Yellow, Black, Blue, Green, Purple, Orange, Pink, Red	
Persistence and degradability	Large quantities. May cause long-term adverse effects in the environment.

2-(2-ethoxyethoxy)ethanol (111-90-0)	
Persistence and degradability	Readily biodegradable.

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

Nonylphenol, branched, ethoxylated (68412-54-4)	
Persistence and degradability	inherently biodegradable.
Biodegradation	52 % 28 d

Carbon black (1333-86-4)	
Persistence and degradability	Not readily biodegradable.

limestone (1317-65-3)	
Persistence and degradability	Not readily biodegradable.

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

1-Methoxy-2-propanol (107-98-2)	
Persistence and degradability	Readily biodegradable.
Biodegradation	96 % 28 d

copper dinitrate (3251-23-8)	
Persistence and degradability	Not readily biodegradable.

12.3. Bioaccumulative potential

Paint-Riter Water-Based White, Yellow, Black, Blue, Green, Purple, Orange, Pink, Red	
Bioaccumulative potential	Not established.

2-(2-ethoxyethoxy)ethanol (111-90-0)	
BCF fish 1	>=
Log Pow	-0.43

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

Propylene glycol (57-55-6)	
Log Kow	-0.78

Nonylphenol, branched, ethoxylated (68412-54-4)	
Log Pow	5.39
Bioaccumulative potential	Not expected to bioaccumulate.

limestone (1317-65-3)	
Bioaccumulative potential	Does not biaccumulate significantly.

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

12.4. Mobility in soil

Paint-Riter Water-Based White, Yellow, Black, Blue, Green, Purple, Orange, Pink, Red	
Ecology - soil	Not established.

12.5. Results of PBT and vPvB assessment

Paint-Riter Water-Based White, Yellow, Black, Blue, Green, Purple, Orange, Pink, Red
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.

Ecology - waste materials : Avoid release to the environment.

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

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

14.6. Special precautions for user

Overland transport

Not regulated.

Transport by sea

Not regulated.

Air transport

Not regulated.

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

Contains no substance on the REACH candidate list

Substances 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: Nonylphenol ethoxylates (C2H4O)nC15H24O (68412-54-4)

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 : 9 - 13 %

15.1.2. National regulations

Germany

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

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 : Silicon dioxide (cristobalite) is listed

SZW-lijst van mutagene stoffen : None of the components are 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 : None of the components are listed

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

Denmark

Classification remarks : Emergency management guidelines for the storage of flammable liquids must be followed

Danish National Regulations : 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

Indication of changes:
Physical and chemical properties.

Abbreviations and acronyms:	
	ACGIH (American Conference of Government Industrial Hygienists)
	CAS (Chemical Abstracts Service) number
	CLP: Classification, Labelling, Packaging.
	GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).
	OSHA: Occupational Safety & Health Administration
	PBT: Persistent, Bioaccumulative, Toxic
	TSCA: Toxic Substances Control Act

Data sources : ESIS (European chemincal 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. 2 (Dermal)	Acute toxicity (dermal), Category 2
Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4

Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
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
Carc. 1A	Carcinogenicity (inhalation) Category 1A
Carc. 2	Carcinogenicity, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Ox. Sol. 2	Oxidising Solids, Category 2
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Corr. 1C	Skin corrosion/irritation, Category 1C
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1A	Skin sensitisation, category 1A
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H226	Flammable liquid and vapour.
H272	May intensify fire; oxidiser.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal 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.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H350i	May cause cancer by inhalation.
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH208	Contains reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)(55965-84-9), 4-[[4-(aminocarbonyl)phenyl]azo]-N-(2-ethoxyphenyl)-3-hydroxynaphthalene-2-carboxamide, C.I. Pigment Red 170 (naphthol <1%)(2786-76-7). May produce an allergic reaction.
EUH210	Safety data sheet available on request.

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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.