

GISS MARQUAGE Feutre A Peinture Indelebile Paint Up 10

Safety Data Sheet

according to Regulation (EU) 2015/830

SDS Ref.: LACO1504023

Date of issue: 4/16/2015 Revision date: 7/2/2019 Version: 1.2

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

1.1. Product identifier

Product form : Article
Trade name : GISS MARQUAGE Feutre A Peinture Indelebile Paint Up 10
Synonyms : GISS MARQUAGE Feutre A Peinture Indelebile Paint Up 10 - White, Yellow, Red, Black, Blue, Green

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

No additional information available

1.3. Details of the supplier of the safety data sheet

Rubix Engineering
31, Rue de la Baume
75008 PARIS
Tel : +33 (0)1.44.86.08.10

infoclient@giss.fr

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 Tottleben Boulevard 1606 SOFIA	+359 2 9154 409
CROATIA	Poisons Control Centre Institute of Medical Research & Occupational Health	Ksaverska Cesta 2 P.O. Box 291 HR-10000 Zagreb	+385 1 234 8342
CZECH REPUBLIC	Toxikologické informační středisko Clinic For Occupational Medicine, 1st Medical Faculty, Charles University	Na Bojišti 1 120 00 Praha 2	+42 2 2491 9293 +42 2 2491 5402
DENMARK	Gifflinjen 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

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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.

2.3. Other hazards

PBT: not yet assessed

vPvB: not yet assessed

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
1-Methoxy-2-propanol	(CAS-No.) 107-98-2 (EC-No.) 203-539-1 (EC Index-No.) 603-064-00-3	40 - 75	Flam. Liq. 3, H226 STOT SE 3, H336
Aluminium (Note T)	(CAS-No.) 7429-90-5 (EC-No.) 231-072-3;231-072-3b (EC Index-No.) 013-001-00-1	0 - 65	Flam. Sol. 1, H228 Water-react. 2, H261
titanium dioxide	(CAS-No.) 13463-67-7 (EC-No.) 236-675-5	1 - 25	Not classified
zinc sulphide	(CAS-No.) 1314-98-3 (EC-No.) 215-251-3	0 - 25	Not classified
ethanol	(CAS-No.) 64-17-5 (EC-No.) 200-578-6 (EC Index-No.) 603-002-00-5	5 - 20	Flam. Liq. 2, H225

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2-methoxy-1-methylethyl acetate	(CAS-No.) 108-65-6 (EC-No.) 203-603-9 (EC Index-No.) 607-195-00-7	0.01 - 2	Flam. Liq. 3, H226
4-[[4-(aminocarbonyl)phenyl]azo]-N-(2-ethoxyphenyl)-3-hydroxynaphthalene-2-carboxamide, C.I. Pigment Red 170 (naphthol <1%)	(CAS-No.) 2786-76-7 (EC-No.) 220-509-3	0 - 5	Skin Sens. 1, H317
Isopropanol	(CAS-No.) 67-63-0 (EC-No.) 200-661-7 (EC Index-No.) 603-117-00-0	0 - 5	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Ethyl acetate	(CAS-No.) 141-78-6 (EC-No.) 205-500-4 (EC Index-No.) 607-022-00-5	0.1 - 3	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Carbon black	(CAS-No.) 1333-86-4 (EC-No.) 215-609-9	0 - 2	Carc. 2, H351
4-Methyl-7-diethylaminocoumarin	(CAS-No.) 91-44-1 (EC-No.) 202-068-9	0 - 3	Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319
Aluminum hydroxide	(CAS-No.) 21645-51-2 (EC-No.) 244-492-7	<1	Not classified
propyl acetate (Note C)	(CAS-No.) 109-60-4 (EC-No.) 203-686-1 (EC Index-No.) 607-024-00-6	0 - 2	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Butyl acetate	(CAS-No.) 123-86-4 (EC-No.) 204-658-1 (EC Index-No.) 607-025-00-1	<1	Flam. Liq. 3, H226 STOT SE 3, H336
(2-Methoxymethylethoxy)-propanol	(CAS-No.) 34590-94-8 (EC-No.) 252-104-2	<1	Not classified
Aluminum oxide	(CAS-No.) 1344-28-1 (EC-No.) 215-691-6	<1	Not classified
2-methoxypropyl acetate	(CAS-No.) 70657-70-4 (EC-No.) 274-724-2 (EC Index-No.) 607-251-00-0	<0.1	Flam. Liq. 3, H226 Repr. 1B, H360D STOT SE 3, H335
barium sulfate	(CAS-No.) 7727-43-7 (EC-No.) 231-784-4	<0.1	Not classified
Toluene	(CAS-No.) 108-88-3 (EC-No.) 203-625-9 (EC Index-No.) 601-021-00-3	<0.1	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412

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

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

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general

: Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

First-aid measures after inhalation

: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

First-aid measures after skin contact

: Take off immediately all contaminated clothing. Rinse skin with water/shower.

First-aid measures after eye contact

: In case of contact, immediately flush eyes with plenty of water.

First-aid measures after ingestion

: Do NOT induce vomiting. Get medical advice/attention.

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

Symptoms/effects after inhalation

: May cause drowsiness or dizziness.

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Symptoms/effects after skin contact : May cause moderate 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 : Carbon dioxide. Dry chemical. Inert gas. Foam. Water spray. Water fog.

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

5.2. Special hazards arising from the substance or mixture

Fire hazard : Flammable liquid and vapour. Burning produces irritating, toxic and noxious fumes.

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

5.3. Advice for firefighters

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

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

6.1.1. For non-emergency personnel

Protective equipment : Chemical goggles or safety glasses. Wear suitable gloves.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Chemical goggles or safety glasses. Wear suitable gloves.

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

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

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

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

6.4. Reference to other sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapours are flammable.

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

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

7.2. Conditions for safe storage, including any incompatibilities

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

Incompatible products : Strong oxidizers.

Incompatible materials : Heat sources.

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

Prohibitions on mixed storage : Keep away from incompatible materials.

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

7.3. Specific end use(s)

Marking.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

1-Methoxy-2-propanol (107-98-2)		
EU	Local name	1-Methoxypropanol-2
EU	IOELV TWA (mg/m ³)	375 mg/m ³

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1-Methoxy-2-propanol (107-98-2)		
EU	IOELV TWA (ppm)	100 ppm
EU	IOELV STEL (mg/m ³)	568 mg/m ³
EU	IOELV STEL (ppm)	150 ppm
EU	Notes	Skin
Austria	MAK (mg/m ³)	187 mg/m ³
Austria	MAK (ppm)	50 ppm
Austria	MAK Short time value (mg/m ³)	187 mg/m ³
Austria	MAK Short time value (ppm)	50 ppm
Austria	Remark (AT)	(gemessen als Momentanwert), (H)
Belgium	Limit value (mg/m ³)	375 mg/m ³
Belgium	Limit value (ppm)	100 ppm
Belgium	Short time value (mg/m ³)	568 mg/m ³
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/m ³)	270 mg/m ³
Czech Republic	Expoziční limity (PEL) (ppm)	73.17 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m ³)	550 mg/m ³
Czech Republic	Expoziční limity (NPK-P) (ppm)	149.05 ppm
Czech Republic	Remark (CZ)	D
Denmark	Local name	1-Methoxy-2-propanol (Propylenglycolmonomethylether)
Denmark	Grænseværdie (langvarig) (mg/m ³)	185 mg/m ³
Denmark	Grænseværdie (langvarig) (ppm)	50 ppm
Denmark	Grænseværdie (kortvarig) (mg/m ³)	370 mg/m ³
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/m ³)	370 mg/m ³
Finland	HTP-arvo (8h) (ppm)	100 ppm
Finland	HTP-arvo (15 min)	560 mg/m ³
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/m ³)	188 mg/m ³
France	VME (ppm)	50 ppm
France	VLE (mg/m ³)	375 mg/m ³
France	VLE (ppm)	100 ppm
France	Note (FR)	Peau
Germany	TRGS 900 Local name	1-Methoxy-2-propanol
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	370 mg/m ³
Germany	TRGS 900 Occupational exposure limit value (ppm)	100 ppm
Germany	TRGS 900 Limitation of exposure peaks (mg/m ³)	740 mg/m ³
Germany	TRGS 900 Limitation of exposure peaks (ppm)	200 ppm
Germany	TRGS 900 Remark	DFG,EU,Y

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1-Methoxy-2-propanol (107-98-2)		
Germany	TRGS 910 Acceptable concentration notes	
Hungary	Local name	1-METOXIPROPÁN-2-OL
Hungary	AK-érték	375 mg/m ³
Hungary	CK-érték	568 mg/m ³
Hungary	Megjegyzések (HU)	b; EU1
Ireland	OEL (8 hours ref) (mg/m ³)	375 mg/m ³
Ireland	OEL (8 hours ref) (ppm)	100 ppm
Ireland	OEL (15 min ref) (mg/m ³)	568 mg/m ³
Ireland	OEL (15 min ref) (ppm)	150 ppm
Italy	Local name	Metossipropanolo-2,1-
Italy	OEL TWA (mg/m ³)	375 mg/m ³
Italy	OEL TWA (ppm)	100 ppm
Italy	OEL STEL (mg/m ³)	568 mg/m ³
Italy	OEL STEL (ppm)	150 ppm
Latvia	Local name	1-Metoksi-2-propanols (propilēnglikola monometilēteris, monopropilēnglikolmetilēteris)
Latvia	OEL TWA (mg/m ³)	375 mg/m ³
Latvia	OEL TWA (ppm)	100 ppm
Latvia	OEL STEL (mg/m ³)	568 mg/m ³
Latvia	OEL STEL (ppm)	150 ppm
Lithuania	IPRV (mg/m ³)	190 mg/m ³
Lithuania	IPRV (ppm)	50 ppm
Lithuania	TPRV (mg/m ³)	300 mg/m ³
Lithuania	TPRV (ppm)	75 ppm
Netherlands	Local name	1-Methoxy-2-propanol
Netherlands	Grenswaarde TGG 8H (mg/m ³)	375 mg/m ³
Netherlands	Grenswaarde TGG 15MIN (mg/m ³)	563 mg/m ³
Netherlands	Remark (MAC)	(H)
Poland	Local name	1-Metoksypropan-2-ol
Poland	NDS (mg/m ³)	180 mg/m ³
Poland	NDSch (mg/m ³)	360 mg/m ³
Portugal	Local name	1-Metoxi-2-propanol (PGME)
Portugal	OEL TWA (ppm)	50 ppm
Portugal	OEL STEL (ppm)	100 ppm
Slovakia	Local name	1-Metoxipropan-2-ol (propylēnglykolmonometyléter)
Slovakia	NPHV (priemerná) (mg/m ³)	375 mg/m ³
Slovakia	NPHV (priemerná) (ppm)	100 ppm
Slovakia	OEL STEL (mg/m ³)	568 mg/m ³
Slovakia	OEL STEL (ppm)	150 ppm
Slovakia	Upozornenie (SK)	(K)
Slovenia	Local name	1-metoksi-2-propanol (propilenglikolmonometil eter)
Slovenia	OEL TWA (mg/m ³)	375 mg/m ³
Slovenia	OEL TWA (ppm)	100 ppm
Slovenia	OEL STEL (mg/m ³)	562.5 mg/m ³
Slovenia	OEL STEL (ppm)	150 ppm

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1-Methoxy-2-propanol (107-98-2)		
Spain	Local name	1-Metoxipropan-2-ol (Éter 1-metílico de propilenglicol)
Spain	VLA-ED (mg/m ³)	375 mg/m ³
Spain	VLA-ED (ppm)	100 ppm
Spain	VLA-EC (mg/m ³)	568 mg/m ³
Spain	VLA-EC (ppm)	150 ppm
Spain	Notes	vía dérmica, VLI
Sweden	Local name	1-Metoxi-2-propanol
Sweden	nivågränsvärde (NVG) (mg/m ³)	190 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	50 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	300 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	75 ppm
Sweden	Anmärkning (SE)	H
United Kingdom	WEL TWA (mg/m ³)	375 mg/m ³
United Kingdom	WEL TWA (ppm)	100 ppm
United Kingdom	WEL STEL (mg/m ³)	560 mg/m ³
United Kingdom	WEL STEL (ppm)	150 ppm
Norway	Local name	1-metoksy-2-propanol (Propylenglykolmonometyleter)
Norway	Grenseverdier (AN) (mg/m ³)	180 mg/m ³
Norway	Grenseverdier (AN) (ppm)	50 ppm
Norway	Merknader (NO)	H
Switzerland	VME (mg/m ³)	360 mg/m ³
Switzerland	MAK (ppm)	100 ppm 20 ppm (urina; fine dell'esposizione / del turno)
Switzerland	KZGW (mg/m ³)	720 mg/m ³
Switzerland	KZGW (ppm)	200 ppm

Ethyl acetate (141-78-6)		
EU	Local name	Ethyl acetate
EU	IOELV TWA (mg/m ³)	734 mg/m ³
EU	IOELV TWA (ppm)	200 ppm
EU	IOELV STEL (mg/m ³)	1468 mg/m ³
EU	IOELV STEL (ppm)	400 ppm
EU	Regulatory reference	COMMISSION DIRECTIVE (EU) 2017/164
Austria	MAK (mg/m ³)	1050 mg/m ³
Austria	MAK (ppm)	300 ppm
Austria	MAK Short time value (mg/m ³)	2100 mg/m ³ max. 8x5 min./Schicht (gemessen als Momentanwert)
Austria	MAK Short time value (ppm)	600 ppm max. 8x5 min./Schicht (gemessen als Momentanwert)
Belgium	Limit value (mg/m ³)	1461 mg/m ³
Belgium	Limit value (ppm)	400 ppm
Czech Republic	Local name	Ethylacetát
Czech Republic	Expoziční limity (PEL) (mg/m ³)	700 mg/m ³
Czech Republic	Expoziční limity (PEL) (ppm)	195 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m ³)	900 mg/m ³
Czech Republic	Expoziční limity (NPK-P) (ppm)	250 ppm

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Ethyl acetate (141-78-6)		
Czech Republic	Remark (CZ)	I (dráždí sliznice (oči, dýchací cesty) resp. kůži)
Czech Republic	Regulatory reference	Nařízení vlády č. 361/2007 Sb. (zpracovány změny č. 246/2018 Sb.)
Denmark	Local name	Ethylacetat (Eddikesyreethylester)
Denmark	Grænseværdie (langvarig) (mg/m ³)	540 mg/m ³
Denmark	Grænseværdie (langvarig) (ppm)	150 ppm
Denmark	Grænseværdie (kortvarig) (mg/m ³)	1080 mg/m ³
Denmark	Grænseværdie (kortvarig) (ppm)	300 ppm
Denmark	Anmærkninger (DK)	E (betyder, at stoffet har en EF-grænseværdi)
Denmark	Regulatory reference	BEK nr 655 af 31/05/2018
Finland	Local name	Etyyliasettaatti
Finland	HTP-arvo (8h) (mg/m ³)	730 mg/m ³
Finland	HTP-arvo (8h) (ppm)	200 ppm
Finland	HTP-arvo (15 min)	1470 mg/m ³
Finland	HTP-arvo (15 min) (ppm)	400 ppm
Finland	Regulatory reference	HTP-ARVOT 2018 (Sosiaali- ja terveystieteiden ministeriö)
France	Local name	Acétate d'éthyle
France	VME (mg/m ³)	1400 mg/m ³
France	VME (ppm)	400 ppm
France	Note (FR)	Valeurs recommandées/admises
France	Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Germany	TRGS 900 Local name	Ethylacetat
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	730 mg/m ³
Germany	TRGS 900 Occupational exposure limit value (ppm)	200 ppm
Germany	TRGS 900 Limitation of exposure peaks	2(l)
Germany	TRGS 900 Remark	DFG;EU;Y
Germany	TRGS 900 Regulatory reference	TRGS900
Germany	TRGS 910 Acceptable concentration notes	
Hungary	Local name	ETIL-ACETÁT
Hungary	AK-érték	734 mg/m ³
Hungary	CK-érték	1468 mg/m ³
Hungary	Megjegyzések (HU)	i (ingerlő anyag, amely izgatja a bőrt, nyálkahártyát, szemet vagy mindhármát), sz (Túlérzékenységet okozó (szenzibilizáló) tulajdonságú anyag. Az anyagra érzékeny egyéneken „túlérzékenységen” alapuló bőr-, légzőrendszeri, esetleg más szervet/szervrendszert károsító megbetegedést okozhat); EU4 (2017/164 EU irányelvben közölt érték)
Hungary	Regulatory reference	25/2000. (IX. 30.) EüM–SZCSM együttes rendelet a munkahelyek kémiai biztonságáról
Ireland	OEL (8 hours ref) (ppm)	200 ppm
Ireland	OEL (15 min ref) (ppm)	400 ppm
Latvia	Local name	Etiķskābes etilesteris (etilacetāts)
Latvia	OEL TWA (mg/m ³)	200 mg/m ³ 54 mg/m ³ 1468 mg/m ³ 400 mg/m ³

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Ethyl acetate (141-78-6)		
Latvia	Regulatory reference	Ministru kabineta 2007.gada 15.maija noteikumiem Nr.325 (Grozījumi Ministru kabineta 2018. gada 10. jūlijā noteikumiem Nr.407)
Lithuania	IPRV (mg/m ³)	500 mg/m ³
Lithuania	IPRV (ppm)	150 ppm
Lithuania	NRV (mg/m ³)	1100 mg/m ³
Lithuania	NRV (ppm)	300 ppm
Netherlands	Local name	Ethylacetaat
Netherlands	Grenswaarde TGG 8H (mg/m ³)	734 mg/m ³
Netherlands	Grenswaarde TGG 15MIN (mg/m ³)	1468 mg/m ³
Netherlands	Regulatory reference	Arbeidsomstandighedenregeling 2018
Poland	Local name	Octan etylu
Poland	NDS (mg/m ³)	734 mg/m ³
Poland	NDSCh (mg/m ³)	1468 mg/m ³
Poland	Regulatory reference	Dz. U. 2018 poz. 1286
Portugal	Local name	Acetato de etilo
Portugal	OEL TWA (ppm)	400 ppm
Slovakia	Regulatory reference	Norma Portuguesa NP 1796:2014
Slovakia	Local name	Etylacetát (octan etylový)
Slovakia	NPHV (priemerná) (mg/m ³)	734 mg/m ³
Slovakia	NPHV (priemerná) (ppm)	200 ppm
Slovakia	OEL STEL (mg/m ³)	1468 mg/m ³
Slovakia	OEL STEL (ppm)	400 ppm
Slovakia	Regulatory reference	Nariadenie vlády č. 33/2018 Z.z.
Slovenia	Local name	etilacetat
Slovenia	OEL TWA (mg/m ³)	734 mg/m ³
Slovenia	OEL TWA (ppm)	200 ppm
Slovenia	OEL STEL (mg/m ³)	1468 mg/m ³
Slovenia	OEL STEL (ppm)	400 ppm
Slovenia	Remark (SI)	Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti), EU
Slovenia	Regulatory reference	Uradni list RS, št. 78/2018 z dne 4.12.2018
Spain	Local name	Acetato de etilo
Spain	VLA-ED (mg/m ³)	734 mg/m ³
Spain	VLA-ED (ppm)	200 ppm
Spain	VLA-EC (mg/m ³)	1468 mg/m ³
Spain	VLA-EC (ppm)	400 ppm
Spain	Notes	VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo).
Spain	Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
Sweden	Local name	Etylacetat
Sweden	nivågränsvärde (NVG) (mg/m ³)	550 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	150 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	1100 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	300 ppm

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Ethyl acetate (141-78-6)		
Sweden	Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
United Kingdom	WEL TWA (mg/m ³)	730 mg/m ³
United Kingdom	WEL TWA (ppm)	200 ppm
United Kingdom	WEL STEL (mg/m ³)	1460 mg/m ³
United Kingdom	WEL STEL (ppm)	400 ppm
Norway	Local name	Etylacetat
Norway	Grenseverdier (AN) (mg/m ³)	734 mg/m ³
Norway	Grenseverdier (AN) (ppm)	200 ppm
Norway	Grenseverdier (Korttidsverdi) (mg/m ³)	1468 mg/m ³
Norway	Grenseverdier (Korttidsverdi) (ppm)	400 ppm
Norway	Merknader (NO)	E (EU har en veiledende grenseverdi for stoffet); S (Korttidsverdi er en verdi for gjennomsnittskonsentrasjonen av et kjemisk stoff i pustesonen til en arbeidstaker som ikke skal overskrides i en fastsatt referanseperiode. Referanseperioden er 15 minutter)
Norway	Regulatory reference	FOR-2018-08-21-1255
Switzerland	VME (mg/m ³)	1400 mg/m ³
Switzerland	MAK (ppm)	400 ppm
Switzerland	KZGW (mg/m ³)	2800 mg/m ³ max. 4x15 min./turno
Switzerland	KZGW (ppm)	800 ppm max. 4x15 min./turno

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	Grænseværdie (langvarig) (mg/m ³)	5 mg/m ³ (total) 2 mg/m ³ (respirabel)
Denmark	Grænseværdie (kortvarig) (mg/m ³)	10 mg/m ³ (total) 4 mg/m ³ (respirabel)
France	VME (mg/m ³)	10 mg/m ³
France	Note (FR)	(respirable aerosol)
Germany	TRGS 900 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	AK-érték	6 mg/m ³
Hungary	Megjegyzések (HU)	(respirable aerosol)
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. Biūrėk IX skyriaus 3 pastabà.)
Poland	NDS (mg/m ³)	2.5 mg/m ³ (dymy, pyl całkowity) 1.2 mg/m ³ (dymy, pyl respirabilny)
Slovakia	NPHV (priemerná) (mg/m ³)	1.5 mg/m ³ (respirabilná frakcia) 4 mg/m ³ (inhalovateľná frakcia)

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Aluminum oxide (1344-28-1)		
Spain	VLA-ED (mg/m ³)	10 mg/m ³
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	Grenseverdier (AN) (mg/m ³)	10 mg/m ³
Norway	Merknader (NO)	1)
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)
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/m ³)	6 mg/m ³
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/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 dymy, pyl całkowity 1.2 mg/m ³ dymy, pyl respirabilny
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)	1.5 mg/m ³ (respirabilná frakcia) 4 mg/m ³ (inhalovateľná frakcia)
Slovakia	Regulatory reference	Nariadenie vlády č. 33/2018 Z.z.
Switzerland	VME (mg/m ³)	3 mg/m ³
Switzerland	Remark	(alveolengängige Fraktion)

Butyl acetate (123-86-4)		
EU	Local name	n-butyl acetate
Austria	MAK (mg/m ³)	480 mg/m ³
Austria	MAK (ppm)	100 ppm
Austria	MAK Short time value (mg/m ³)	480 mg/m ³
Austria	MAK Short time value (ppm)	100 ppm
Austria	Remark (AT)	(gemessen als Momentanwert)
Czech Republic	Local name	Butylacetát

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Butyl acetate (123-86-4)		
Czech Republic	Expoziční limity (PEL) (mg/m ³)	950 mg/m ³
Czech Republic	Expoziční limity (PEL) (ppm)	200.5 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m ³)	1200 mg/m ³
Czech Republic	Expoziční limity (NPK-P) (ppm)	253 ppm
Denmark	Local name	n-Butylacetat
Denmark	Grænseværdie (langvarig) (mg/m ³)	710 mg/m ³
Denmark	Grænseværdie (langvarig) (ppm)	150 ppm
Denmark	Grænseværdie (kortvarig) (mg/m ³)	1420 mg/m ³
Denmark	Grænseværdie (kortvarig) (ppm)	300 ppm
Finland	Local name	n-Butylliasetaatti
Finland	HTP-arvo (8h) (mg/m ³)	720 mg/m ³
Finland	HTP-arvo (8h) (ppm)	150 ppm
Finland	HTP-arvo (15 min)	960 mg/m ³
Finland	HTP-arvo (15 min) (ppm)	200 ppm
France	Local name	Acétate de n-butyle
France	VME (mg/m ³)	710 mg/m ³
France	VME (ppm)	150 ppm
France	VLE (mg/m ³)	940 mg/m ³
France	VLE (ppm)	200 ppm
Germany	TRGS 900 Local name	n-Butylacetat
Germany	TRGS 910 Acceptable concentration notes	
Hungary	Local name	n-BUTIL-ACETÁT
Hungary	AK-érték	950 mg/m ³
Hungary	CK-érték	950 mg/m ³
Hungary	Megjegyzések (HU)	i, sz; l.
Latvia	Local name	Etiķskābesbutilesteris (n-butilacetāts)
Latvia	OEL TWA (mg/m ³)	200 mg/m ³
Lithuania	IPRV (mg/m ³)	500 mg/m ³
Lithuania	IPRV (ppm)	100 ppm
Lithuania	TPRV (mg/m ³)	700 mg/m ³
Lithuania	TPRV (ppm)	150 ppm
Poland	Local name	Octan butylu (n-butylu octan)
Poland	NDS (mg/m ³)	200 mg/m ³
Poland	NDSch (mg/m ³)	950 mg/m ³
Portugal	Local name	Acetato de n-butilo
Portugal	OEL TWA (ppm)	150 ppm
Portugal	OEL STEL (ppm)	200 ppm
Slovakia	Local name	n-Butylacetát
Slovakia	NPHV (priemerná) (mg/m ³)	500 mg/m ³
Slovakia	NPHV (priemerná) (ppm)	100 ppm
Slovakia	OEL STEL (mg/m ³)	700 mg/m ³
Slovakia	OEL STEL (ppm)	150 ppm
Slovenia	Local name	n-butilacetat
Slovenia	OEL TWA (mg/m ³)	480 mg/m ³

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Butyl acetate (123-86-4)		
Slovenia	OEL TWA (ppm)	100 ppm
Slovenia	OEL STEL (mg/m ³)	480 mg/m ³
Slovenia	OEL STEL (ppm)	100 ppm
Spain	Local name	Acetato de n-butilo
Spain	VLA-ED (mg/m ³)	724 mg/m ³
Spain	VLA-ED (ppm)	150 ppm
Spain	VLA-EC (mg/m ³)	965 mg/m ³
Spain	VLA-EC (ppm)	200 ppm
Sweden	Local name	n-Butylacetat
Sweden	nivågränsvärde (NVG) (mg/m ³)	500 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	100 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	700 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	150 ppm
Norway	Grenseverdier (AN) (mg/m ³)	355 mg/m ³
Norway	Grenseverdier (AN) (ppm)	75 ppm

2-methoxy-1-methylethyl acetate (108-65-6)		
Denmark	Grænseværdie (kortvarig) (mg/m ³)	550 mg/m ³
Denmark	Grænseværdie (kortvarig) (ppm)	100 ppm
Finland	Huomautus (FI)	iho
France	Note (FR)	Peau
Germany	TRGS 900 Limitation of exposure peaks (mg/m ³)	270 mg/m ³
Germany	TRGS 900 Limitation of exposure peaks (ppm)	50 ppm
Germany	TRGS 910 Acceptable concentration notes	
Slovakia	NPHV (priemerná) (mg/m ³)	275 mg/m ³
Slovakia	NPHV (priemerná) (ppm)	50 ppm
Slovakia	Upozornenie (SK)	(K)
Spain	VLA-ED (mg/m ³)	275 mg/m ³
Spain	VLA-ED (ppm)	50 ppm
Spain	VLA-EC (mg/m ³)	550 mg/m ³
Spain	VLA-EC (ppm)	100 ppm
Spain	Notes	VLI
Sweden	Anmärkning (SE)	H

2-methoxypropyl acetate (70657-70-4)		
Czech Republic	Remark (CZ)	D
Denmark	Grænseværdie (kortvarig) (mg/m ³)	220 mg/m ³
Denmark	Grænseværdie (kortvarig) (ppm)	40 ppm
Germany	TRGS 900 Limitation of exposure peaks (mg/m ³)	224 mg/m ³
Germany	TRGS 900 Limitation of exposure peaks (ppm)	40 ppm
Germany	TRGS 910 Acceptable concentration notes	
Slovakia	NPHV (priemerná) (mg/m ³)	110 mg/m ³
Slovakia	NPHV (priemerná) (ppm)	20 ppm
Slovakia	Upozornenie (SK)	(K)
Spain	VLA-ED (mg/m ³)	28 mg/m ³

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2-methoxypropyl acetate (70657-70-4)		
Spain	VLA-ED (ppm)	5 ppm
Spain	VLA-EC (mg/m ³)	220 mg/m ³
Spain	VLA-EC (ppm)	40 ppm
Spain	Notes	TR1B,r
(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
Germany	TRGS 900 Local name	(2-Methoxymethylethoxy)propanol (Isomerengemisch)
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	310 mg/m ³
Germany	TRGS 900 Occupational exposure limit value (ppm)	50 ppm
Germany	TRGS 900 Limitation of exposure peaks (mg/m ³)	310 mg/m ³
Germany	TRGS 900 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 (Dipropilénglikolmonometil-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

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(2-Methoxymethylethoxy)-propanol (34590-94-8)		
Italy	OEL TWA (ppm)	50 ppm
Latvia	Local name	Metoksi propoksi 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-Metoximetiletoxiopropanol (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
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)

ethanol (64-17-5)		
Austria	MAK (mg/m ³)	1900 mg/m ³
Austria	MAK (ppm)	1000 ppm
Austria	MAK Short time value (mg/m ³)	3800 mg/m ³ max. 3x60 min./Schicht (gemessen als Momentanwert)
Austria	MAK Short time value (ppm)	2000 ppm max. 3x60 min./Schicht (gemessen als Momentanwert)
Belgium	Limit value (mg/m ³)	1907 mg/m ³
Belgium	Limit value (ppm)	1000 ppm

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ethanol (64-17-5)		
Czech Republic	Local name	Ethanol (Ethylalkohol)
Czech Republic	Expoziční limity (PEL) (mg/m ³)	1000 mg/m ³
Czech Republic	Expoziční limity (PEL) (ppm)	530 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m ³)	3000 mg/m ³
Czech Republic	Expoziční limity (NPK-P) (ppm)	1600 ppm
Czech Republic	Regulatory reference	Nařízení vlády č. 361/2007 Sb. (zpracovány změny č. 246/2018 Sb.)
Denmark	Local name	Ethanol (Ethylalkohol)
Denmark	Grænseværdie (langvarig) (mg/m ³)	1900 mg/m ³
Denmark	Grænseværdie (langvarig) (ppm)	1000 ppm
Denmark	Grænseværdie (kortvarig) (mg/m ³)	3800 mg/m ³
Denmark	Grænseværdie (kortvarig) (ppm)	2000 ppm
Denmark	Regulatory reference	BEK nr 655 af 31/05/2018
Finland	Local name	Etanoli
Finland	HTP-arvo (8h) (mg/m ³)	1900 mg/m ³
Finland	HTP-arvo (8h) (ppm)	1000 ppm
Finland	HTP-arvo (15 min)	2500 mg/m ³
Finland	HTP-arvo (15 min) (ppm)	1300 ppm
Finland	Regulatory reference	HTP-ARVOT 2018 (Sosiaali- ja terveystieteiden ministeriö)
France	Local name	Alcool éthylique
France	VME (mg/m ³)	1900 mg/m ³
France	VME (ppm)	1000 ppm
France	VLE (mg/m ³)	9500 mg/m ³
France	VLE (ppm)	5000 ppm
France	Note (FR)	Valeurs recommandées/admises
France	Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Germany	TRGS 900 Local name	Ethanol
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	380 mg/m ³
Germany	TRGS 900 Occupational exposure limit value (ppm)	200 ppm
Germany	TRGS 900 Limitation of exposure peaks	2(II)
Germany	TRGS 900 Remark	DFG;Y
Germany	TRGS 900 Regulatory reference	TRGS900
Germany	TRGS 910 Acceptable concentration notes	
Hungary	Local name	ETIL-ALKOHOL
Hungary	AK-érték	1900 mg/m ³
Hungary	CK-érték	7600 mg/m ³
Hungary	Megjegyzések (HU)	IV. (NAGYON GYENGE KÁROSÍTÓ HATÁSÚ ANYAGOK (ÁK > 500 ml/m ³))
Hungary	Regulatory reference	25/2000. (IX. 30.) EüM–SZCSM együttes rendelet a munkahelyek kémiai biztonságáról
Ireland	OEL (15 min ref) (ppm)	1000 ppm
Latvia	Local name	Etilspirts (etanols)
Latvia	OEL TWA (mg/m ³)	1000 mg/m ³
Latvia	Regulatory reference	Ministru kabineta 2007.gada 15.maija noteikumiem Nr.325

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ethanol (64-17-5)		
Lithuania	IPRV (mg/m ³)	1000 mg/m ³
Lithuania	IPRV (ppm)	500 ppm
Lithuania	TPRV (mg/m ³)	1900 mg/m ³
Lithuania	TPRV (ppm)	1000 ppm
Netherlands	Local name	Ethanol
Netherlands	Grenswaarde TGG 8H (mg/m ³)	260 mg/m ³
Netherlands	Grenswaarde TGG 15MIN (mg/m ³)	1900 mg/m ³
Netherlands	Remark (MAC)	H (Huidopname) Stoffen die relatief gemakkelijk door de huid kunnen worden opgenomen, hetgeen een substantiële bijdrage kan betekenen aan de totale inwendige blootstelling, hebben in de lijst een H-aanduiding. Bij deze stoffen moeten naast maatregelen tegen inademing ook adequate maatregelen ter voorkoming van huidcontact worden genomen.
Netherlands	Regulatory reference	Arbeidsomstandighedenregeling 2018
Poland	Local name	Etanol (alkohol etylowy)
Poland	NDS (mg/m ³)	1900 mg/m ³
Poland	Regulatory reference	Dz. U. 2018 poz. 1286
Portugal	Local name	Etanol (Álcool etílico)
Portugal	OEL STEL (ppm)	1000 ppm
Slovakia	Regulatory reference	Norma Portuguesa NP 1796:2014
Slovakia	Local name	Etylalkohol (etanol)
Slovakia	NPHV (priemerná) (mg/m ³)	960 mg/m ³
Slovakia	NPHV (priemerná) (ppm)	500 ppm
Slovakia	OEL STEL (mg/m ³)	1920 mg/m ³
Slovakia	OEL STEL (ppm)	1000 ppm
Slovakia	Regulatory reference	Nariadenie vlády č. 33/2018 Z.z.
Slovenia	Local name	etanol (etilalkohol)
Slovenia	OEL TWA (mg/m ³)	960 mg/m ³
Slovenia	OEL TWA (ppm)	500 ppm
Slovenia	OEL STEL (mg/m ³)	1920 mg/m ³
Slovenia	OEL STEL (ppm)	1000 ppm
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	Etanol (Alcohol etílico)
Spain	VLA-ED (mg/m ³)	1910 mg/m ³
Spain	VLA-ED (ppm)	1000 ppm
Spain	VLA-EC (mg/m ³)	1910 mg/m ³
Spain	VLA-EC (ppm)	1000 ppm
Spain	Notes	s (Esta sustancia tiene prohibida total o parcialmente su comercialización y uso como fitosanitario y/o como biocida. Para una información detallada acerca de las prohibiciones consúltase: 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

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ethanol (64-17-5)		
Sweden	Local name	Etanol
Sweden	nivågränsvärde (NVG) (mg/m ³)	1000 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	500 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	1900 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	1000 ppm
Sweden	Anmärkning (SE)	V (Vägledande kortidsgränsvärde ska användas som ett rekommenderat högsta värde som inte bör överskridas)
Sweden	Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
United Kingdom	WEL TWA (mg/m ³)	1920 mg/m ³
United Kingdom	WEL TWA (ppm)	1000 ppm
Norway	Local name	Etanol
Norway	Grenseverdier (AN) (mg/m ³)	950 mg/m ³
Norway	Grenseverdier (AN) (ppm)	500 ppm
Norway	Regulatory reference	FOR-2018-08-21-1255
Switzerland	VME (mg/m ³)	960 mg/m ³
Switzerland	MAK (ppm)	500 ppm
Switzerland	KZGW (mg/m ³)	1920 mg/m ³
Switzerland	KZGW (ppm)	1000 ppm

Isopropanol (67-63-0)		
Austria	MAK (mg/m ³)	500 mg/m ³
Austria	MAK (ppm)	200 ppm
Austria	MAK Short time value (mg/m ³)	2000 mg/m ³ max. 4x15 min./Schicht
Austria	MAK Short time value (ppm)	800 ppm max. 4x15 min./Schicht
Belgium	Limit value (mg/m ³)	500 mg/m ³
Belgium	Limit value (ppm)	200 ppm
Belgium	Short time value (mg/m ³)	1000 mg/m ³
Belgium	Short time value (ppm)	400 ppm
Czech Republic	Local name	iso-Propanol
Czech Republic	Expoziční limity (PEL) (mg/m ³)	500 mg/m ³
Czech Republic	Expoziční limity (PEL) (ppm)	203.5 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m ³)	1000 mg/m ³
Czech Republic	Expoziční limity (NPK-P) (ppm)	407 ppm
Czech Republic	Remark (CZ)	I
Denmark	Local name	Isopropylalkohol (Isopropanol; 2-Propanol; sec-Propylalkohol)
Denmark	Grænseværdie (langvarig) (mg/m ³)	490 mg/m ³
Denmark	Grænseværdie (langvarig) (ppm)	200 ppm
Denmark	Grænseværdie (kortvarig) (mg/m ³)	980 mg/m ³
Denmark	Grænseværdie (kortvarig) (ppm)	400 ppm
Finland	Local name	2-Propanoli
Finland	HTP-arvo (8h) (mg/m ³)	500 mg/m ³
Finland	HTP-arvo (8h) (ppm)	200 ppm
Finland	HTP-arvo (15 min)	620 mg/m ³
Finland	HTP-arvo (15 min) (ppm)	250 ppm

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Isopropanol (67-63-0)		
France	Local name	Alcool isopropylique
France	VLE (mg/m ³)	980 mg/m ³
France	VLE (ppm)	400 ppm
Germany	TRGS 900 Local name	Propan-2-ol
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	500 mg/m ³
Germany	TRGS 900 Occupational exposure limit value (ppm)	200 ppm
Germany	TRGS 903 Biological limit value	50 mg/l Aceton (Blut; Expositionsende bzw. Schichtende)
Germany	TRGS 910 Acceptable concentration notes	
Hungary	Local name	IZOPROPIL-ALKOHOL
Hungary	AK-érték	500 mg/m ³
Hungary	CK-érték	2000 mg/m ³
Ireland	OEL (8 hours ref) (ppm)	200 ppm
Ireland	OEL (15 min ref) (ppm)	400 ppm
Ireland	Notes (IE)	Sk
Latvia	Local name	Izopropanols (2-propanols, izopropilspirts, 1-metil-1-etanols)
Latvia	OEL TWA (mg/m ³)	350 mg/m ³
Latvia	OEL STEL (mg/m ³)	600 mg/m ³
Lithuania	IPRV (mg/m ³)	350 mg/m ³
Lithuania	IPRV (ppm)	150 ppm
Lithuania	TPRV (mg/m ³)	600 mg/m ³
Lithuania	TPRV (ppm)	250 ppm
Netherlands	Grenswaarde TGG 8H (mg/m ³)	650 mg/m ³
Netherlands	Grenswaarde TGG 8H (ppm)	250 ppm
Poland	Local name	Propan-2-ol (izopropylowy alkohol)
Poland	NDS (mg/m ³)	900 mg/m ³
Poland	NDSch (mg/m ³)	1200 mg/m ³
Portugal	Local name	2-Propanol (isopropanol ou álcool isopropílico)
Portugal	OEL TWA (ppm)	200 ppm
Portugal	OEL STEL (ppm)	400 ppm
Slovakia	Local name	Izopropylalkohol (propán-2-ol)
Slovakia	NPHV (priemerná) (mg/m ³)	500 mg/m ³
Slovakia	NPHV (priemerná) (ppm)	200 ppm
Slovakia	OEL STEL (mg/m ³)	1000 mg/m ³
Slovakia	OEL STEL (ppm)	400 ppm
Slovenia	Local name	propan-2-ol (izopropilalkohol; izopropanol)
Slovenia	OEL TWA (mg/m ³)	500 mg/m ³
Slovenia	OEL TWA (ppm)	200 ppm
Slovenia	OEL STEL (mg/m ³)	2000 mg/m ³
Slovenia	OEL STEL (ppm)	800 ppm
Spain	Local name	Isopropanol (Alcohol isopropílico)
Spain	VLA-ED (mg/m ³)	500 mg/m ³ VLB, s
Spain	VLA-ED (ppm)	200 ppm VLB, s 40 ppm F, I "(Acetona en orina; Final de la semana, laboral 1)"

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Isopropanol (67-63-0)		
Spain	VLA-EC (mg/m ³)	1000 mg/m ³ VLB, s
Spain	VLA-EC (ppm)	400 ppm VLB, s
Sweden	Local name	Isopropanol
Sweden	nivågränsvärde (NVG) (mg/m ³)	350 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	150 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	600 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	250 ppm
United Kingdom	WEL TWA (mg/m ³)	999 mg/m ³
United Kingdom	WEL TWA (ppm)	400 ppm
United Kingdom	WEL STEL (mg/m ³)	1250 mg/m ³
United Kingdom	WEL STEL (ppm)	500 ppm
Norway	Local name	2-propanol (Isopropanol)
Norway	Grenseverdier (AN) (mg/m ³)	245 mg/m ³
Norway	Grenseverdier (AN) (ppm)	100 ppm
Switzerland	VME (mg/m ³)	500 mg/m ³
Switzerland	MAK (ppm)	200 ppm 25 ppm acetone (urina; fine dell'esposizione / del turno) 25 ppm acetone (sangue; fine dell'esposizione / del turno)
Switzerland	KZGW (mg/m ³)	1000 mg/m ³ max. 4x15 min./turno
Switzerland	KZGW (ppm)	400 ppm max. 4x15 min./turno

propyl acetate (109-60-4)		
Austria	Remark (AT)	(gemessen als Momentanwert)
Czech Republic	Local name	n-Propylacetát
Czech Republic	Expoziční limity (PEL) (mg/m ³)	800 mg/m ³
Czech Republic	Expoziční limity (PEL) (ppm)	190 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m ³)	1000 mg/m ³
Czech Republic	Expoziční limity (NPK-P) (ppm)	240 ppm
Czech Republic	Remark (CZ)	I
Denmark	Local name	n-Propylacetat
Denmark	Grænseværdie (langvarig) (mg/m ³)	625 mg/m ³
Denmark	Grænseværdie (langvarig) (ppm)	150 ppm
Denmark	Grænseværdie (kortvarig) (mg/m ³)	1250 mg/m ³
Denmark	Grænseværdie (kortvarig) (ppm)	300 ppm
Finland	Local name	1-Propyyliasettaatti
Finland	HTP-arvo (8h) (mg/m ³)	420 mg/m ³
Finland	HTP-arvo (8h) (ppm)	100 ppm
Finland	HTP-arvo (15 min)	850 mg/m ³
Finland	HTP-arvo (15 min) (ppm)	200 ppm
France	Local name	Acétate de n-propyle
France	VME (mg/m ³)	840 mg/m ³
France	VME (ppm)	200 ppm
France	Note (FR)	Valeurs recommandées/admises
Germany	TRGS 910 Acceptable concentration notes	
Hungary	Local name	PROPIL-ACETÁT

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propyl acetate (109-60-4)		
Hungary	AK-érték	840 mg/m ³
Hungary	CK-érték	840 mg/m ³
Hungary	Megjegyzések (HU)	b, i; l.
Latvia	Local name	Propilacetāts (etiķskābespropilesteris)
Latvia	OEL TWA (mg/m ³)	200 mg/m ³
Poland	Local name	Octan propylu
Poland	NDS (mg/m ³)	200 mg/m ³
Poland	NDSch (mg/m ³)	400 mg/m ³
Portugal	Local name	Acetato de n-propilo
Portugal	OEL TWA (ppm)	200 ppm
Portugal	OEL STEL (ppm)	250 ppm
Slovakia	Local name	Propylacetát (octan propylový)
Slovakia	NPHV (priemerná) (mg/m ³)	400 mg/m ³
Slovakia	NPHV (priemerná) (ppm)	100 ppm
Slovakia	OEL STEL (mg/m ³)	800 mg/m ³
Slovakia	OEL STEL (ppm)	200 ppm
Slovenia	Local name	propilacetat
Slovenia	OEL TWA (mg/m ³)	420 mg/m ³
Slovenia	OEL TWA (ppm)	100 ppm
Slovenia	OEL STEL (mg/m ³)	420 mg/m ³
Slovenia	OEL STEL (ppm)	100 ppm
Spain	Local name	Acetato de n-propilo
Spain	VLA-ED (mg/m ³)	849 mg/m ³
Spain	VLA-ED (ppm)	200 ppm
Spain	VLA-EC (mg/m ³)	1060 mg/m ³
Spain	VLA-EC (ppm)	250 ppm
Sweden	Local name	Propylacetat
Sweden	nivågränsvärde (NVG) (mg/m ³)	400 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	100 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	800 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	200 ppm
Sweden	Anmärkning (SE)	V (Vägledande kortidsgränsvärde ska användas som ett rekommenderat högsta värde som inte bör överskridas)
Norway	Local name	n-propylacetat
Norway	Grenseverdier (AN) (mg/m ³)	420 mg/m ³
Norway	Grenseverdier (AN) (ppm)	100 ppm

Aluminium (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)

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Aluminium (7429-90-5)		
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
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)
Latvia	Local name	Alumīnijs un tā sakausējumi (pēc alumīnija)
Latvia	OEL TWA (mg/m ³)	2 mg/m ³
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/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	Regulatory reference	Nariadenie vlády č. 33/2018 Z.z.
Spain	Local name	Aluminio

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Aluminium (7429-90-5)		
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 (Aluminium, lösliga föreningar, som Al) 5 mg/m ³ (totaldamm, som Al) 2 mg/m ³ (respirabelt damm, som Al)
Sweden	Anmärkning (SE)	3 (Den respirabla fraktionen är de inhalerbara partiklar som når längst ner i luftvägarna, till alveolerna i lungorna. Med totaldamm menas de partiklar (aerosoler) som fastnar på ett filter i den provtagare som beskrivs i Metodserien, Provtagnings av totaldamm och respirabelt damm, Metod nr 1010, 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)
Norway	Grenseverdier (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)

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
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 terveystieteiden ministeriö)
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)

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Carbon black (1333-86-4)		
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
Sweden	Anmärkning (SE)	2 (Med totaldamm menas de partiklar (aerosoler) som fastnar på ett filter i den provtagare som beskrivs i Metodserien, Provtagnings av totaldamm och respirabelt damm, Metod nr 1010, 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)
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	Grenseverdier (AN) (mg/m ³)	3.5 mg/m ³
Norway	Regulatory reference	FOR-2018-08-21-1255

zinc sulphide (1314-98-3)		
Germany	TRGS 910 Acceptable concentration notes	
Lithuania	IPRV (mg/m ³)	5 mg/m ³

barium sulfate (7727-43-7)		
Belgium	Limit value (mg/m ³)	10 mg/m ³
Belgium	Remark (BE)	(sulfate de)
Germany	TRGS 900 Local name	Bariumsulfat
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	1.25 mg/m ³ A (mg/m ³) 10 mg/m ³ E (mg/m ³)
Germany	TRGS 900 Remark	AGS,DFG
Germany	TRGS 910 Acceptable concentration notes	
Ireland	OEL (8 hours ref) (mg/m ³)	2 mg/m ³
Portugal	Local name	Sulfato de bário
Portugal	OEL TWA (mg/m ³)	5 mg/m ³ I (Fração inalável), E (O valor aplica-se a partículas sem amianto e contendo menos de 1 % de sílica cristalina)
Slovakia	Local name	Síran (sulfát) báratý
Slovakia	NPHV (priemerná) (mg/m ³)	1.5 mg/m ³ (respirabilná frakcia) 4 mg/m ³ (inhalovateľná frakcia)
Spain	Local name	Sulfato de bario
Spain	VLA-ED (mg/m ³)	10 mg/m ³
Spain	Notes	e
United Kingdom	WEL TWA (mg/m ³)	10 mg/m ³ inhalable aerosol 4 mg/m ³ respirable aerosol

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Toluene (108-88-3)		
EU	Local name	Toluene
EU	IOELV TWA (mg/m ³)	192 mg/m ³
EU	IOELV TWA (ppm)	50 ppm
EU	IOELV STEL (mg/m ³)	384 mg/m ³
EU	IOELV STEL (ppm)	100 ppm
EU	Notes	skin
Austria	MAK (mg/m ³)	190 mg/m ³ (H,d)
Austria	MAK (ppm)	50 ppm (H,d)
Austria	MAK Short time value (mg/m ³)	380 mg/m ³ max. 4x15 min./Schicht, (H,d)
Austria	MAK Short time value (ppm)	100 ppm max. 4x15 min./Schicht, (H,d)
Belgium	Limit value (mg/m ³)	77 mg/m ³
Belgium	Limit value (ppm)	20 ppm
Belgium	Short time value (mg/m ³)	384 mg/m ³
Belgium	Short time value (ppm)	100 ppm
Belgium	Remark (BE)	D
Czech Republic	Local name	Toluen
Czech Republic	Expoziční limity (PEL) (mg/m ³)	200 mg/m ³
Czech Republic	Expoziční limity (PEL) (ppm)	53 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m ³)	500 mg/m ³
Czech Republic	Expoziční limity (NPK-P) (ppm)	130 ppm
Czech Republic	Remark (CZ)	D
Denmark	Local name	Toluen (Methylbenzen; Phenylmethan)
Denmark	Grænseværdie (langvarig) (mg/m ³)	94 mg/m ³
Denmark	Grænseværdie (langvarig) (ppm)	25 ppm
Denmark	Grænseværdie (kortvarig) (mg/m ³)	188 mg/m ³
Denmark	Grænseværdie (kortvarig) (ppm)	50 ppm
Denmark	Anmærkninger (DK)	E (betyder, at stoffet har en EF-grænseværdi); H (betyder, at stoffet kan optages gennem huden)
Finland	Local name	Tolueeni
Finland	HTP-arvo (8h) (mg/m ³)	81 mg/m ³
Finland	HTP-arvo (8h) (ppm)	25 ppm
Finland	HTP-arvo (15 min)	380 mg/m ³
Finland	HTP-arvo (15 min) (ppm)	100 ppm
Finland	Huomautus (FI)	iho, melu
France	Local name	Toluène
France	VME (mg/m ³)	76.8 mg/m ³
France	VME (ppm)	20 ppm
France	VLE (mg/m ³)	384 mg/m ³
France	VLE (ppm)	100 ppm
France	Note (FR)	Valeurs réglementaires contraignantes; substance classée toxique pour la reproduction de catégorie 2; risque de pénétration percutanée
Germany	TRGS 900 Local name	Toluol
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	190 mg/m ³
Germany	TRGS 900 Occupational exposure limit value (ppm)	50 ppm
Germany	TRGS 900 Remark	DFG,EU,H,Y

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Toluene (108-88-3)		
Germany	TRGS 903 Biological limit value	3 mg/l o-Kresol (Urin; bei Langzeitexposition/Expositionsende bzw. Schichtende) 1 mg/l Toluol (Blut; Expositionsende bzw. Schichtende)
Germany	TRGS 910 Acceptable concentration notes	
Hungary	Local name	TOLUOL
Hungary	AK-érték	190 mg/m ³
Hungary	CK-érték	380 mg/m ³
Hungary	Megjegyzések (HU)	b, i; II.2.
Ireland	OEL (8 hours ref) (mg/m ³)	192 mg/m ³
Ireland	OEL (8 hours ref) (ppm)	50 ppm
Ireland	OEL (15 min ref) (mg/m ³)	384 mg/m ³
Ireland	OEL (15 min ref) (ppm)	100 ppm
Italy	Local name	Toluene
Italy	OEL TWA (mg/m ³)	192 mg/m ³
Italy	OEL TWA (ppm)	50 ppm
Latvia	Local name	Toluols (metilbenzols)
Latvia	OEL TWA (mg/m ³)	50 mg/m ³
Latvia	OEL TWA (ppm)	14 ppm
Latvia	OEL STEL (mg/m ³)	150 mg/m ³
Latvia	OEL STEL (ppm)	40 ppm
Lithuania	IPRV (mg/m ³)	192 mg/m ³
Lithuania	IPRV (ppm)	50 ppm
Lithuania	TPRV (mg/m ³)	384 mg/m ³
Lithuania	TPRV (ppm)	100 ppm
Lithuania	Remark (LT)	O
Netherlands	Local name	Tolueen
Netherlands	Grenswaarde TGG 8H (mg/m ³)	150 mg/m ³
Netherlands	Grenswaarde TGG 15MIN (mg/m ³)	384 mg/m ³
Poland	Local name	Toluen
Poland	NDS (mg/m ³)	100 mg/m ³
Poland	NDSch (mg/m ³)	200 mg/m ³
Portugal	Local name	Tolueno
Portugal	OEL TWA (ppm)	20 ppm
Slovakia	Local name	Toluén
Slovakia	NPHV (priemerná) (mg/m ³)	192 mg/m ³ (K)
Slovakia	NPHV (priemerná) (ppm)	50 ppm (K) 600 ppm (Toluén) 1.5 ppm (O-krezol) 2401 ppm (Kyselina hippurová)
Slovakia	OEL STEL (mg/m ³)	384 mg/m ³
Slovakia	OEL STEL (ppm)	100 ppm
Slovenia	Local name	toluen
Slovenia	OEL TWA (mg/m ³)	192 mg/m ³
Slovenia	OEL TWA (ppm)	50 ppm
Slovenia	OEL STEL (mg/m ³)	384 mg/m ³
Slovenia	OEL STEL (ppm)	100 ppm

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Toluene (108-88-3)		
Spain	Local name	Tolueno
Spain	VLA-ED (mg/m ³)	192 mg/m ³
Spain	VLA-ED (ppm)	50 ppm
Spain	VLA-EC (mg/m ³)	384 mg/m ³
Spain	VLA-EC (ppm)	100 ppm
Spain	Notes	Vía dérmica (Indica que, en las exposiciones a esta sustancia, la aportación por la vía cutánea puede resultar significativa para el contenido corporal total si no se adoptan medidas para prevenir la absorción. En estas situaciones, es aconsejable la utilización del control biológico para poder cuantificar la cantidad global absorbida del contaminante. Para más información véase el Apartado 5 de este documento), VLB® (Agente químico que tiene Valor Límite Biológico específico en este documento), VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo. Todos estos agentes químicos figuran al menos en una de las directivas de valores límite indicativos publicadas hasta ahora (ver Anexo C. Bibliografía). Los estados miembros disponen de un tiempo fijado en dichas directivas para su transposición a los valores límites de cada país miembro. Una vez adoptados, estos valores tienen la misma validez que el resto de los valores adoptados por el país), r (Esta sustancia tiene establecidas restricciones a la fabricación, la comercialización o el uso en los términos especificados en el "Reglamento (CE) nº 1907/2006 sobre Registro, Evaluación, Autorización y Restricción de sustancias y preparados químicos" (REACH) de 18 de diciembre de 2006 (DOUE L 369 de 30 de diciembre de 2006). Las restricciones de una sustancia pueden aplicarse a todos los usos o sólo a usos concretos. El anexo XVII del Reglamento REACH contiene la lista de todas las sustancias restringidas y especifica los usos que se han restringido).
Sweden	Local name	Toluen
Sweden	nivågränsvärde (NVG) (mg/m ³)	192 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	50 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	384 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	100 ppm
Sweden	Anmärkning (SE)	B (Ämnet kan orsaka hörselskada Exponering för ämnet nära det befintliga yrkeshygieniska gränsvärdet och vid samtidig exponering för buller nära insatsvärdet 80 dB kan orsaka hörselskada); H (Ämnet kan lätt upptas genom huden Det föreskrivna gränsvärdet bedöms ge tillräckligt skydd endast under förutsättning att huden är skyddad mot exponering för ämnet ifråga)
United Kingdom	WEL TWA (mg/m ³)	191 mg/m ³
United Kingdom	WEL TWA (ppm)	50 ppm
United Kingdom	WEL STEL (mg/m ³)	384 mg/m ³
United Kingdom	WEL STEL (ppm)	100 ppm
United Kingdom	Remark (WEL)	(Sk)
Norway	Local name	Toluen
Norway	Grenseverdier (AN) (mg/m ³)	94 mg/m ³
Norway	Grenseverdier (AN) (ppm)	25 ppm
Norway	Merknader (NO)	H (Kjemikalier som kan tas opp gjennom huden); E (EU har en veiledende grenseverdi for stoffet)
Switzerland	VME (mg/m ³)	190 mg/m ³

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Toluene (108-88-3)		
Switzerland	MAK (ppm)	50 ppm 0.6 ppm toluolo (sangue; fine dell'esposizione / del turno) 0.5 ppm o-cresolo (urina; in caso di esposizione per molto tempo/fine dell'esposizione / del turno)
Switzerland	KZGW (mg/m ³)	760 mg/m ³ max. 4x15 min./turno
Switzerland	KZGW (ppm)	200 ppm max. 4x15 min./turno

titanium dioxide (13463-67-7)		
EU	Local name	Titanium dioxide
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
Denmark	Grænseværdie (kortvarig) (mg/m ³)	12 mg/m ³
France	Local name	Titane (dioxyde de), en Ti
France	VME (mg/m ³)	10 mg/m ³
France	Note (FR)	inhalable aerosol
Germany	TRGS 900 Local name	Titandioxid
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
Latvia	Local name	Titānadioksīds
Latvia	OEL TWA (mg/m ³)	10 mg/m ³
Lithuania	IPRV (mg/m ³)	5 mg/m ³
Portugal	Local name	Dióxido de titânio
Portugal	OEL TWA (mg/m ³)	10 mg/m ³
Slovakia	Local name	Oxid titaničitý
Slovakia	NPHV (priemerná) (mg/m ³)	5 mg/m ³
Spain	Local name	Dióxido de titanio
Spain	VLA-ED (mg/m ³)	10 mg/m ³
Spain	Notes	inhalable aerosol
Sweden	Local name	Titandioxid
Sweden	nivågränsvärde (NVG) (mg/m ³)	5 mg/m ³
Sweden	Anmärkning (SE)	total dust, 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
Switzerland	VME (mg/m ³)	3 mg/m ³
Switzerland	Remark	(respirable aerosol)

8.2. Exposure controls

Appropriate engineering controls:

Provide local exhaust ventilation of closed transfer systems to minimize exposures.

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Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

None under normal use. It is a good industrial hygiene practice to minimize skin contact. Wear suitable gloves. rubber. EN 374

Eye protection:

No special eye protection equipment recommended under normal conditions of use. Eye protection should only be necessary where liquid could be splashed or sprayed. EN 166

Respiratory protection:

No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation. In case of inadequate ventilation wear respiratory protection. Use an approved respirator equipped with oil/mist cartridges. EN 12083

Consumer exposure controls:

Keep out of reach of children.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Solid marker containing liquid colored paint.
Colour	: Variable.
Odour	: Solvent.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: < 1
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 120 °C
Flash point	: 31 °C
Auto-ignition temperature	: 287 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: Flammable liquid and vapour.
Vapour pressure	: 11.8
Relative vapour density at 20 °C	: No data available
Relative density	: 1 - 1.33
Solubility	: insoluble in water.
Log Pow	: 0.7
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

VOC content : 50 - 60 %

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known.

10.2. Chemical stability

Flammable liquid and vapour.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

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

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

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

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

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

LD50 oral rat	4016 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg bodyweight
LC50 inhalation rat (ppm)	> 7000 ppm 6 hr

Ethyl acetate (141-78-6)

LD50 oral rat	4934 mg/kg
LD50 oral	10200 mg/kg
LD50 dermal rabbit	> 20000 mg/kg
LC50 inhalation rat (mg/l)	> 18 mg/l/4h

Aluminum oxide (1344-28-1)

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

Butyl acetate (123-86-4)

LD50 oral rat	10760 mg/kg
LD50 dermal rabbit	> 14112 mg/kg
LC50 inhalation rat (mg/l)	> 21 mg/l/4h

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

LD50 oral rat	8532 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (ppm)	4345 ppm 6 h

2-methoxypropyl acetate (70657-70-4)

LC50 inhalation rat (ppm)	2700 ppm 6 h
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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/m ³ 4 h

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

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

ethanol (64-17-5)

LD50 oral rat	10470 mg/kg
LD50 dermal rabbit	> 20000 mg/kg
LC50 inhalation rat (mg/l)	133.8 mg/l/4h

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

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

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

Carbon black (1333-86-4)	
LD50 oral rat	> 8000 mg/kg
LC50 inhalation rat (mg/l)	> 4.6 mg/m ³ 4 h

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

4-Methyl-7-diethylaminocoumarin (91-44-1)	
LD50 oral rat	> 5000 mg/kg

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

Toluene (108-88-3)	
LD50 oral rat	5580 mg/kg EU Method B.1 (Acute Toxicity (Oral))
LC50 inhalation rat (mg/l)	> 20 mg/l/4h OECD Guideline 403 (Acute Inhalation Toxicity)

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

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified.

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

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

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

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Toluene (108-88-3)

IARC group 3 - Not classifiable

titanium dioxide (13463-67-7)

IARC group 2B - Possibly carcinogenic to humans

barium sulfate (7727-43-7)

NOAEL (chronic, oral, animal/male, 2 years) 60 mg/kg bodyweight

NOAEL (chronic, oral, animal/female, 2 years) 75 mg/kg bodyweight

titanium dioxide (13463-67-7)

NOAEL (chronic, oral, animal/male, 2 years) 5 mg/kg bodyweight rat

Reproductive toxicity : Not classified

Ethyl acetate (141-78-6)

NOAEL (animal/male, F0/P) 26400 mg/kg

NOAEL (animal/female, F0/P) 26400 mg/kg

STOT-single exposure : Not classified.

Additional information : May cause drowsiness or dizziness.

STOT-repeated exposure : Not classified

Ethyl acetate (141-78-6)

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

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

Toluene (108-88-3)

LOAEC (inhalation, rat, gas, 90 days) 1250 ppmv/6h/day

NOAEL (oral, rat, 90 days) 625 mg/kg bodyweight/day EU Method B.26.

NOAEC (inhalation, rat, gas, 90 days) 300 ppmv/6h/day OECD Guideline 453

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic toxicity : Not classified

Chronic aquatic toxicity : Not classified

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

LC50 fish 1 20800 mg/l

EC50 Daphnia 1 23300 mg/l

ErC50 (algae) > 1000 mg/l

Ethyl acetate (141-78-6)

LC50 fish 1 220 mg/l

EC50 Daphnia 1 1200 mg/l

NOEC chronic fish < 9.35 mg/l

Aluminum oxide (1344-28-1)

EC50 Daphnia 1 1470 mg/l

NOEC (acute) 50 mg/l

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2-methoxy-1-methylethyl acetate (108-65-6)	
LC50 fish 1	100 - 180 mg/l
EC50 Daphnia 1	> 500 mg/l 48 h
ErC50 (algae)	> 1000 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 Daphnia 1	> 110 mg/l 48 h

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

ethanol (64-17-5)	
LC50 fish 1	14200 mg/l
EC50 Daphnia 1	5012 mg/l

Isopropanol (67-63-0)	
LC50 fish 1	10000 mg/l

propyl acetate (109-60-4)	
LC50 fish 1	60 mg/l 96 h
EC50 Daphnia 1	91.5 mg/l 48 h

Aluminium (7429-90-5)	
LC50 fish 1	218.64 mg/l ASTM 2000; test material: aluminium chloride hexahydrate; <i>Pimephales promelas</i>
EC50 Daphnia 1	1.4 mg/l OECD Guideline 202; test material: Aluminium hydroxide
LOEC (acute)	≈ 72.89 mg/l
NOEC (acute)	≈ 37.2 mg/l

zinc sulphide (1314-98-3)	
LC50 fish 1	> 0.25 mg/l 96 h
EC50 Daphnia 1	> 29 µg/l 48 h

barium sulfate (7727-43-7)	
LC50 fish 1	> 3.5 mg/l 96 h
EC50 Daphnia 1	14500 µg/l 48 h

Toluene (108-88-3)	
LC50 fish 1	5.5 mg/l
EC50 Daphnia 2	3.78 mg/l
ErC50 (algae)	134 mg/l
LOEC (chronic)	2.77 mg/l
NOEC chronic fish	1.39 mg/l
NOEC chronic crustacea	0.74 mg/l

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12.2. Persistence and degradability

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

Persistence and degradability	Readily biodegradable.
Biodegradation	96 % 28 d

Ethyl acetate (141-78-6)

Persistence and degradability	Readily biodegradable.
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2-methoxy-1-methylethyl acetate (108-65-6)

Persistence and degradability	Readily biodegradable.
Biodegradation	89 % 10 d

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

Persistence and degradability	Not readily biodegradable.
Biodegradation	0 % 28 d

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

Persistence and degradability	Readily biodegradable.
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ethanol (64-17-5)

Biodegradation	> 96 % 28 d
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Isopropanol (67-63-0)

Persistence and degradability	Readily biodegradable.
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propyl acetate (109-60-4)

Persistence and degradability	Readily biodegradable.
Biodegradation	62 % 5 d

Carbon black (1333-86-4)

Persistence and degradability	Not readily biodegradable.
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Toluene (108-88-3)

Persistence and degradability	Readily biodegradable.
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12.3. Bioaccumulative potential

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Log Pow	0.7
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1-Methoxy-2-propanol (107-98-2)

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

Bioaccumulative potential	Not expected to bioaccumulate.
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2-methoxy-1-methylethyl acetate (108-65-6)

Log Pow	0.43
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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

ethanol (64-17-5)

Bioaccumulative potential	Not expected to bioaccumulate.
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Isopropanol (67-63-0)

Bioaccumulative potential	Not expected to bioaccumulate.
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propyl acetate (109-60-4)

Log Pow	1.23
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barium sulfate (7727-43-7)

BCF fish 1	68.4 L/kg
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Toluene (108-88-3)

Bioconcentration factor (BCF REACH)	90
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Log Kow	2.73
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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

Ethyl acetate (141-78-6)	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

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Sewage disposal recommendations	: Do not dispose of waste into sewer.
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Additional information	: Handle empty containers with care because residual vapours are flammable.
European List of Waste (LoW) code	: For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.

SECTION 14: Transport information

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

14.1. UN number

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

14.2. UN proper shipping name

Proper Shipping Name (ADR)	: PAINT
Proper Shipping Name (IMDG)	: PAINT
Proper Shipping Name (IATA)	: PAINT
Proper Shipping Name (ADN)	: PAINT

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

14.3. Transport hazard class(es)

ADR

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



IMDG

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



IATA

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



ADN

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



RID

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



14.4. Packing group

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

14.5. Environmental hazards

Dangerous for the environment : No
Marine pollutant : No

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Other information : No supplementary information available

14.6. Special precautions for user

Overland transport

Classification code (ADR) : F1
Special provisions (ADR) : 163, 367, 650
Limited quantities (ADR) : 5I
Excepted quantities (ADR) : E1
Packing instructions (ADR) : P001, IBC03, LP01, R001
Special packing provisions (ADR) : PP1
Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions (ADR) : T2
Portable tank and bulk container special provisions (ADR) : TP1, TP29
Tank code (ADR) : LGBF
Vehicle for tank carriage : FL
Transport category (ADR) : 3
Special provisions for carriage - Packages (ADR) : V12
Special provisions for carriage - Operation (ADR) : S2
Hazard identification number (Kemler No.) : 30
Orange plates :



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

Transport by sea

Special provisions (IMDG) : 163, 223, 367, 955
Limited quantities (IMDG) : 5 L
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : P001, LP01
Special packing provisions (IMDG) : PP1
IBC packing instructions (IMDG) : IBC03
Tank instructions (IMDG) : T2
Tank special provisions (IMDG) : TP1, TP29
EmS-No. (Fire) : F-E
EmS-No. (Spillage) : S-E
Stowage category (IMDG) : A
Properties and observations (IMDG) : Miscibility with water depends upon the composition.

Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y344
PCA limited quantity max net quantity (IATA) : 10L
PCA packing instructions (IATA) : 355
PCA max net quantity (IATA) : 60L
CAO packing instructions (IATA) : 366
CAO max net quantity (IATA) : 220L
Special provisions (IATA) : A3, A72, A192
ERG code (IATA) : 3L

Inland waterway transport

Classification code (ADN) : F1
Special provisions (ADN) : 163, 367, 650
Limited quantities (ADN) : 5 L
Excepted quantities (ADN) : E1
Equipment required (ADN) : PP, EX, A
Ventilation (ADN) : VE01
Number of blue cones/lights (ADN) : 0

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Rail transport

Classification code (RID)	: F1
Special provisions (RID)	: 163, 367, 650
Limited quantities (RID)	: 5L
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P001, IBC03, LP01, R001
Special packing provisions (RID)	: PP1
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T2
Portable tank and bulk container special provisions (RID)	: TP1, TP29
Tank codes for RID tanks (RID)	: LGBF
Transport category (RID)	: 3
Special provisions for carriage – Packages (RID)	: W12
Colis express (express parcels) (RID)	: CE4
Hazard identification number (RID)	: 30

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

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.

Substance(s) are not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC.

VOC content : 50 - 60 %

15.1.2. National regulations

Germany

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

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

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

Netherlands

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

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

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

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

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

Denmark

Class for fire hazard : Class II-1

Store unit : 5 liter

Classification remarks : R10 <>; Emergency management guidelines for the storage of flammable liquids must be followed

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

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

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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SECTION 16: Other information

Indication of changes:

General information. Composition/information on ingredients.

Abbreviations and acronyms:

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

Data sources : ESIS (European chemical Substances Information System; accessed at: <http://esis.jrc.ec.europa.eu/index.php?PGM=cla>. European Chemicals Agency (ECHA) C&L Inventory database. Accessed at <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>. 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. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Carc. 2	Carcinogenicity, Category 2
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Flam. Sol. 1	Flammable solids, Category 1
Repr. 1B	Reproductive toxicity, Category 1B
Repr. 2	Reproductive toxicity, Category 2
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, Narcosis
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
Water-react. 2	Substances and Mixtures which, in contact with water, emit flammable gases, Category 2
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H228	Flammable solid.
H261	In contact with water releases flammable gases.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.

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H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H360D	May damage the unborn child.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.
EUH210	Safety data sheet available on request.

SDS Prepared by: The Redstone Group
6077 Frantz Rd.
Suite 206
Dublin, OH USA 43017
+1.614.923.7472
www.redstonegrp.com

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