

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

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878
Issue date: 9/22/2020 Revision date: 7/26/2021 Supersedes: 7/6/2021 Version: 3.0

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

1.1. Product identifier

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

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

1.2.1. Relevant identified uses

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

1.2.2. Uses advised against

Restrictions on use : Any use not specified

1.3. Details of the supplier of the safety data sheet

LA-CO Industries Europe
Parc Industriel de la Plaine de l'Ain - Allée des Combes
01150 Blyes
France
T +33 474462323 - F +33 (0)4 74 46 23 29
info-europe@laco.com - www.markal-city.com

1.4. Emergency telephone number

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

EU Member State	Officieel adviesorgaan	Adres	Noodnummer
AUSTRIA	Vergiftungsinformationszentrale (Poisons Information Centre)	Allgemeines Krankenhaus Waehringer Geurtel 18-20 1090 Wien	+43 1 406 43 43
BELARUS	The Belarus Republican Poisons Centre	Kizhevatova str. 58 Minsk 220115	+375 (0)17 201 9158
BELGIUM	Centre Anti-Poisons/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	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

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EU Member State	Officieel adviesorgaan	Adres	Noodnummer
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 Reykjavík	+354 543 22 22
IRELAND	National Poisons Information Centre	Beaumont Hospital PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2166
ITALY	Centro Antiveleni di Bergamo Azienda Ospedaliera Papa Giovanni XXII	Piazza OMS - Organizzazione Mondiale della Sanità, 1 24127 Bergamo	800 88 33 00
ITALY	Centro Antiveleni di Milano Ospedale Niguarda Ca' Granda	Piazza Ospedale Maggiore 3 20162 Milano	+39 02 6610 1029
ITALY	Centro Antiveleni di Roma CAV Policlinico "A. Gemelli", Dipartimento di Tossicologia Clinica Università Cattolica del Sacro Cuore	Largo Agostino Gemelli, 8 00168 Roma	+39 06 305 4343
ITALY	Centro Antiveleni di Roma CAV Policlinico "Umberto I", Università di Roma	Viale del Policlinico, 155 00161 Roma	+39 06 4997 8000
ITALY	Centro Antiveleni di Firenze Az. Osp. "Careggi" U.O. Tossicologia Medica, S.O.D. di Tossicologia Clinica	Largo Brambilla, 3 50134 Firenze	+39 055 794 7819
ITALY	Centro Antiveleni di Pavia CAV Centro Nazionale di Informazione Tossicologica, IRCCS Fondazione Maugeri	Via Salvatore Maugeri, 10 27100 Pavia	+39 03 822 4444
ITALY	Centro Antiveleni di Roma CAV "Osp. Pediatrico Bambino Gesù" Dip. Emergenza e Accettazione DEA	Piazza Sant'Onofrio, 4 00165 Roma	+39 06 6859 3726
ITALY	Centro Antiveleni di Foggia Az. Osp. Univ. Foggia	V.le Luigi Pinto, 1 71122 Foggia	+39 800 183 459
ITALY	Centro Antiveleni di Napoli Az. Osp. "A. Cardarelli"	Via A. Cardarelli, 9 80131 Napoli	+39 081 54 53 333
ITALY	Centro Antiveleni di Verona Azienda Ospedaliera Integrata Verona	Piazzale Aristide Stefani, 1 37126 Verona	+39 800 011 858
ITALY	CAVp "Osp. Pediatrico Bambino Gesù"	Piazza Sant'Onofrio, 4 00165 Roma	06 68593726
ITALY	Az. Osp. Univ. Foggia	V.le Luigi Pinto, 1 71122 Foggia	0881-732326
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),

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EU Member State	Officieel adviesorgaan	Adres	Noodnummer
			+351 21 330 3284
ROMANIA	Biroul pentru Regulamentul Sanitar International si Informare Toxicologica	Str. Dr. Leonte Anastasievici Nr.1-3, Sector 5 50463 Bucuresti	+40 21 318 36 06
SLOVAKIA	Národné toxikologické informačné centrum University Hospital Bratislava	Limbová 5 833 05 Bratislava	+421 2 54 77 4 166
SPAIN	Servicio de Información Toxicológica Instituto Nacional de Toxicología, Departamento de Madrid	Calle Luis Cabrera 9 E-28002 Madrid	+34 91 562 04 20
SWEDEN	Giftinformationscentralen Swedish Poisons Information Centre, Karolinska Hospital	Box 60 500 SE-171 76 Stockholm	+46 8 33 12 31 (International) 112 (National)
SWITZERLAND	Centre Suisse d'Information Toxicologique	Freiestrasse 16 Postfach CH-8028 Zurich	+41 44 251 51 51 (International) 145 (National)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

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

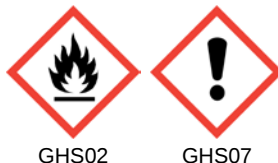
Adverse physicochemical, human health and environmental effects

No data available

2.2. Label elements

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

Hazard pictograms (CLP: Classification, Labelling, Packaging.)



Signal word (CLP)	: Danger
Contains	: White, Yellow, Red, Green, Orange, Aluminum, Pink, Light Blue, Light Green, Brown, Gold: 1-Methoxy-2-propanol, Rosin, fumarated, polymer with ethylene glycol and pentaerythritol Blue: 1-Methoxy-2-propanol, Rosin, fumarated, polymer with ethylene glycol and pentaerythritol, [N,N,N',N',N'',N''-hexaethyl-29H,31H-phthalocyaninetrimethylaminato(2-)-N29,N30,N31,N32]copper
Hazard statements (CLP)	: H225 - Highly flammable liquid and vapour. H317 - May cause an allergic skin reaction. H336 - May cause drowsiness or dizziness.
Precautionary statements (CLP)	: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 - Keep container tightly closed. P240 - Ground and bond container and receiving equipment. P241 - Use explosion-proof electrical/ventilating/lighting equipment. P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P271 - Use only outdoors or in a well-ventilated area. P272 - Contaminated work clothing should not be allowed out of the workplace. P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P302+P352 - IF ON SKIN: Wash with plenty of water. P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water . P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312 - Call a POISON CENTRE or doctor if you feel unwell. P321 - Specific treatment (see supplemental first aid instruction on this label).

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EUH-statements

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P370+P378 - In case of fire: Use media other than water to extinguish.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P403+P235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
: White, Yellow, Red, Blue, Green, Orange, Pink, Light Blue, Light Green, Brown.
EUH211 - Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

2.3. Other hazards

PBT: not yet assessed

vPvB: not yet assessed

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

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3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
1-Methoxy-2-propanol substance with national workplace exposure limit(s) (AT, BE, CZ, DK, FI, FR, DE, HU, IE, IT, LV, LT, NL, PL, PT, SK, SI, ES, SE); substance with a Community workplace exposure limit	CAS-No.: 107-98-2 EC-No.: 203-539-1 EC Index-No.: 603-064-00-3	20 - 80	Flam. Liq. 3, H226 STOT SE 3, H336
Titanium dioxide substance with national workplace exposure limit(s) (AT, BE, DK, FR, IE, LV, LT, PL, PT, SK, ES, SE)	CAS-No.: 13463-67-7 EC-No.: 236-675-5	0 - 25	Carc. 2, H351
Ethanol substance with national workplace exposure limit(s) (AT, BE, CZ, DK, FI, FR, DE, HU, IE, LV, LT, NL, PL, PT, SK, SI, ES, SE)	CAS-No.: 64-17-5 EC-No.: 200-578-6 EC Index-No.: 603-002-00-5	10 - 20	Flam. Liq. 2, H225
Aluminium substance with national workplace exposure limit(s) (AT, BE, CZ, DK, FI, FR, DE, HU, IE, LV, LT, NL, PL, PT, SK, SI, ES, SE) (Note T)	CAS-No.: 7429-90-5 EC-No.: 231-072-3 EC Index-No.: 013-001-00-6	0 - 10	Flam. Sol. 1, H228 Water-react. 2, H261
Isopropanol substance with national workplace exposure limit(s) (AT, BE, CZ, DK, FI, FR, DE, HU, IE, LV, LT, NL, PL, PT, SK, SI, ES, SE)	CAS-No.: 67-63-0 EC-No.: 200-661-7 EC Index-No.: 603-117-00-0	1 - 5	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Rosin, fumarated, polymer with ethylene glycol and pentaerythritol	CAS-No.: 68152-57-8 EC-No.: 614-317-2	1 - < 5	Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 4, H413
2-methoxy-1-methylethyl acetate substance with national workplace exposure limit(s) (AT, BE, CZ, DK, FI, FR, DE, HU, IE, IT, LV, LT, NL, PL, SK, SI, ES, SE); substance with a Community workplace exposure limit	CAS-No.: 108-65-6 EC-No.: 203-603-9 EC Index-No.: 607-195-00-7	0 - 5	Flam. Liq. 3, H226
4-[[4-(aminocarbonyl)phenyl]azo]-N-(2-ethoxyphenyl)-3-hydroxynaphthalene-2-carboxamide, C.I. Pigment Red 170 (naphthol <1%)	CAS-No.: 2786-76-7 EC-No.: 220-509-3	0 - 5	Skin Sens. 1, H317
29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper substance with national workplace exposure limit(s) (LV)	CAS-No.: 147-14-8 EC-No.: 205-685-1	0 - 5	Not classified
Silicon dioxide (amorphous) substance with national workplace exposure limit(s) (AT, CZ, FI, DE, IE, LV, SI, ES)	CAS-No.: 112926-00-8 EC-No.: 231-545-4	<1	Not classified
Aluminum hydroxide substance with national workplace exposure limit(s) (AT, LV, LT, PL, SK)	CAS-No.: 21645-51-2 EC-No.: 244-492-7	<1	Not classified
propyl acetate substance with national workplace exposure limit(s) (CZ, DK, FI, FR, HU, LV, PL, PT, SK, SI, ES, SE) (Note C)	CAS-No.: 109-60-4 EC-No.: 203-686-1 EC Index-No.: 607-024-00-6	0.1 - <1	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Ethyl acetate substance with national workplace exposure limit(s)	CAS-No.: 141-78-6 EC-No.: 205-500-4	0.1 - <1	Flam. Liq. 2, H225 Eye Irrit. 2, H319

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
(AT, BE, CZ, DK, FI, FR, DE, HU, IE, IT, LV, LT, NL, PL, PT, SK, SI, ES, SE); substance with a Community workplace exposure limit	EC Index-No.: 607-022-00-5		STOT SE 3, H336
Butyl acetate substance with national workplace exposure limit(s) (AT, BE, CZ, DK, FI, FR, DE, HU, IE, LV, LT, PL, PT, SK, SI, ES, SE); substance with a Community workplace exposure limit	CAS-No.: 123-86-4 EC-No.: 204-658-1 EC Index-No.: 607-025-00-1	0 - 1	Flam. Liq. 3, H226 STOT SE 3, H336
(2-Methoxymethylethoxy)-propanol substance with national workplace exposure limit(s) (AT, BE, CZ, DK, FI, FR, DE, HU, IE, IT, LV, LT, NL, PL, PT, SK, SI, ES, SE); substance with a Community workplace exposure limit	CAS-No.: 34590-94-8 EC-No.: 252-104-2	0.1 - <1	Not classified
[N,N,N',N'',N''',N''''-hexaethyl-29H,31H-phthalocyaninetrimethylaminato(2-)-N29,N30,N31,N32]copper	CAS-No.: 28654-73-1 EC-No.: 249-125-4	0 - 1	Skin Sens. 1B, H317
Aluminum oxide substance with national workplace exposure limit(s) (AT, BE, DK, FR, DE, HU, IE, LV, LT, PL, SK, ES, SE)	CAS-No.: 1344-28-1 EC-No.: 215-691-6	< 0.1	Not classified
barium sulfate substance with national workplace exposure limit(s) (BE, DE, IE, PT, SK, ES)	CAS-No.: 7727-43-7 EC-No.: 231-784-4	0 - 1	Not classified
2-methoxypropyl acetate substance with national workplace exposure limit(s) (DK, DE, SK, ES)	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
2-methylpropan-1-ol substance with national workplace exposure limit(s) (CZ, DK, FR, DE, PL, PT, SK, SI, ES, SE)	CAS-No.: 78-83-1 EC-No.: 201-148-0 EC Index-No.: 603-108-00-1	< 0.1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336

Specific concentration limits:

Name	Product identifier	Specific concentration limits
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	(10 ≤C ≤ 100) Skin Sens. 1, H317

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- and EUH-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

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First-aid measures after skin contact	: CENTER/doctor if you feel unwell. : Wash skin thoroughly with mild soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: In case of contact, immediately flush eyes with plenty of water.
First-aid measures after ingestion	: Do NOT induce vomiting. Get medical advice/attention.

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

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

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for firefighters

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

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

6.1.2. For emergency responders

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

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

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

6.4. Reference to other sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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

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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

8.1.1 National occupational exposure and biological limit values

1-Methoxy-2-propanol (107-98-2)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	1-Methoxypropanol-2
IOEL TWA	375 mg/m ³
IOEL TWA [ppm]	100 ppm
IOELV STEL (mg/m ³)	568 mg/m ³
IOELV STEL (ppm)	150 ppm
Notes	Skin
Austria - Occupational Exposure Limits	
MAK [mg/m ³]	187 mg/m ³
MAK (OEL TWA) [ppm]	50 ppm
MAK Short time value [mg/m ³]	187 mg/m ³
MAK Short time value [ppm]	50 ppm
Remark (AT)	(gemessen als Momentanwert), (H)
Belgium - Occupational Exposure Limits	
Limit value [mg/m ³]	375 mg/m ³
Limit value [ppm]	100 ppm
Short time value [mg/m ³]	568 mg/m ³
Short time value [ppm]	150 ppm
Remark (BE)	D
Czech Republic - Occupational Exposure Limits	
Local name	1-Methoxy-2-propanol
Expoziční limity (PEL) (mg/m ³)	270 mg/m ³
Expoziční limity (PEL) (ppm)	73.17 ppm
Expoziční limity (NPK-P) (mg/m ³)	550 mg/m ³
Expoziční limity (NPK-P) (ppm)	149.05 ppm
Denmark - Occupational Exposure Limits	

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1-Methoxy-2-propanol (107-98-2)	
Local name	1-Methoxy-2-propanol (Propylenglycolmonomethylether)
Grænseværdi (8 timer) (mg/m³)	185 mg/m³
Grænseværdi (8 timer) (ppm)	50 ppm
Grænseværdi (STEL) (mg/m³)	370 mg/m³
Grænseværdi (STEL) (ppm)	100 ppm
Finland - Occupational Exposure Limits	
Local name	1-Metoksi-2-propanoli
HTP-arvo (8h) (mg/m³)	370 mg/m³
HTP-arvo (8h) (ppm)	100 ppm
HTP-arvo (15 min)	560 mg/m³
HTP-arvo (15 min) (ppm)	150 ppm
France - Occupational Exposure Limits	
Local name	Ether méthylique du propylène-glycol (1-Méthoxy-2-propanol)
VME [mg/m³]	188 mg/m³
VME (OEL TWA) [ppm]	50 ppm
VLE [mg/m³]	375 mg/m³
VLE [ppm]	100 ppm
Note (FR)	Peau
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	1-Methoxy-2-propanol
Occupational exposure limit value (mg/m³)	370 mg/m³
Occupational exposure limit value (ppm)	100 ppm
Limitation of exposure peaks (mg/m³)	740 mg/m³
Limitation of exposure peaks (ppm)	200 ppm
Remark	DFG,EU,Y
Hungary - Occupational Exposure Limits	
Local name	1-METOXIPROPÁN-2-OL
AK-érték	375 mg/m³
CK-érték	568 mg/m³
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m³)	375 mg/m³
OEL (8 hours ref) (ppm)	100 ppm
OEL (15 min ref) (mg/m³)	568 mg/m³
OEL (15 min ref) (ppm)	150 ppm
Italy - Occupational Exposure Limits	
Local name	Metossipropanolo-2,1-
OEL TWA	375 mg/m³

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1-Methoxy-2-propanol (107-98-2)	
OEL TWA [ppm]	100 ppm
OEL STEL	568 mg/m ³
OEL STEL (ppm)	150 ppm
Latvia - Occupational Exposure Limits	
Local name	1-Metoksi-2-propanols (propilēnglikola monometilēteris, monopropilēnglikolmetilēteris)
OEL TWA	375 mg/m ³
OEL TWA (ppm)	100 ppm
OEL STEL	568 mg/m ³
OEL STEL [ppm]	150 ppm
Lithuania - Occupational Exposure Limits	
IPRV (mg/m ³)	190 mg/m ³
IPRV (OEL TWA) [ppm]	50 ppm
TPRV (mg/m ³)	300 mg/m ³
TPRV (ppm)	75 ppm
Netherlands - Occupational Exposure Limits	
Local name	1-Methoxy-2-propanol
Grenswaarde TGG 8H (mg/m ³)	375 mg/m ³
Grenswaarde TGG 15MIN (mg/m ³)	563 mg/m ³
Remark	(H)
Poland - Occupational Exposure Limits	
Local name	1-Metoksypropan-2-ol
NDS (mg/m ³)	180 mg/m ³
NDSch (mg/m ³)	360 mg/m ³
Portugal - Occupational Exposure Limits	
Local name	1-Metoxi-2-propanol (PGME)
OEL TWA [ppm]	50 ppm
OEL STEL [ppm]	100 ppm
Slovakia - Occupational Exposure Limits	
Local name	1-Metoxypropán-2-ol (propylénglykolmonometyléter)
NPHV (priemerná) (mg/m ³)	375 mg/m ³
NPHV (priemerná) (ppm)	100 ppm
NPHV (OEL STEL)	568 mg/m ³
NPHV (OEL STEL) [ppm]	150 ppm
Slovenia - Occupational Exposure Limits	
Local name	1-metoksi-2-propanol (propilenglikolmonometil eter)
OEL TWA	375 mg/m ³
OEL TWA [ppm]	100 ppm

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1-Methoxy-2-propanol (107-98-2)	
OEL STEL	562.5 mg/m ³
OEL STEL [ppm]	150 ppm
Spain - Occupational Exposure Limits	
Local name	1-Metoxipropan-2-ol (Éter 1-metílico de propilenglicol)
VLA-ED (mg/m ³)	375 mg/m ³
VLA-ED (ppm)	100 ppm
VLA-EC (mg/m ³)	568 mg/m ³
VLA-EC (ppm)	150 ppm
Notes	vía dérmica,VLI
Sweden - Occupational Exposure Limits	
Local name	1-Metoxi-2-propanol
Nivågränsvärde (NVG) (mg/m ³)	190 mg/m ³
Nivågränsvärde (NVG) (ppm)	50 ppm
Kortidsvärde (KTV) (mg/m ³)	300 mg/m ³
Kortidsvärde (KTV) (ppm)	75 ppm
Norway - Occupational Exposure Limits	
Local name	1-metoksy-2-propanol (Propylenglykolmonometyleter)
Grenseverdier (AN) (mg/m ³)	180 mg/m ³
Grenseverdier (AN) (ppm)	50 ppm
Switzerland - Occupational Exposure Limits	
VME [mg/m ³]	360 mg/m ³
MAK (ppm)	100 ppm 20 ppm (urina; fine dell'esposizione / del turno)
KZGW (mg/m ³)	720 mg/m ³
KZGW (ppm)	200 ppm
Ethyl acetate (141-78-6)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Ethyl acetate
IOEL TWA	734 mg/m ³
IOEL TWA [ppm]	200 ppm
IOELV STEL (mg/m ³)	1468 mg/m ³ 1468 mg/m ³
IOELV STEL (ppm)	400 ppm 400 ppm
Regulatory reference	COMMISSION DIRECTIVE (EU) 2017/164 COMMISSION DIRECTIVE (EU) 2017/164
Austria - Occupational Exposure Limits	
MAK [mg/m ³]	1050 mg/m ³

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Ethyl acetate (141-78-6)	
MAK (OEL TWA) [ppm]	300 ppm
MAK Short time value [mg/m³]	2100 mg/m³ max. 8x5 min./Schicht (gemessen als Momentanwert)
MAK Short time value [ppm]	600 ppm max. 8x5 min./Schicht (gemessen als Momentanwert)
Belgium - Occupational Exposure Limits	
Limit value [mg/m³]	1461 mg/m³
Limit value [ppm]	400 ppm
Czech Republic - Occupational Exposure Limits	
Local name	Ethylacetát
Expoziční limit (PEL) (mg/m³)	700 mg/m³
Expoziční limit (PEL) (ppm)	191 ppm
Expoziční limit (NPK-P) (mg/m³)	900 mg/m³
Expoziční limit (NPK-P) (ppm)	246 ppm
Remark	I - dráždí sliznice (oči, dýchací cesty), respektive kůži.
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 41/2020 Sb.)
Denmark - Occupational Exposure Limits	
Local name	Ethylacetat (Eddikesyreethylester)
Grænseværdi (8 timer) (mg/m³)	540 mg/m³
Grænseværdi (8 timer) (ppm)	150 ppm
Grænseværdi (STEL) (mg/m³)	1080 mg/m³
Grænseværdi (STEL) (ppm)	300 ppm
Remark	E (betyder, at stoffet har en EF-grænseværdi)
Regulatory reference	BEK nr 290 af 13/02/2021
Finland - Occupational Exposure Limits	
Local name	Etyliasettaatti
HTP-arvo (8h) (mg/m³)	730 mg/m³
HTP-arvo (8h) (ppm)	200 ppm
HTP-arvo (15 min)	1470 mg/m³
HTP-arvo (15 min) (ppm)	400 ppm
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveystieteiden ministeriö)
France - Occupational Exposure Limits	
Local name	Acétate d'éthyle
VME [mg/m³]	734 mg/m³
VME (OEL TWA) [ppm]	200 ppm
VLE [mg/m³]	1468 mg/m³
VLE [ppm]	400 ppm
Note (FR)	Valeurs réglementaires contraignantes
Regulatory reference	Article R4412-149 du Code du travail (réf.: INRS ED 984, 2016; Décret n° 2019-1487;

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Ethyl acetate (141-78-6)	
	Décret n° 2020-1546; Décret n°2021-434)
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	Ethylacetat
Occupational exposure limit value (mg/m ³)	730 mg/m ³
Occupational exposure limit value (ppm)	200 ppm
Peak exposure limitation factor	2(I)
Remark	DFG - Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission); EU - Europäische Union (Von der EU wurde ein Luftgrenzwert festgelegt: Abweichungen bei Wert und Spitzenbegrenzung sind möglich); Y - Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden
Regulatory reference	TRGS900
Hungary - Occupational Exposure Limits	
Local name	ETIL-ACETÁT
AK-érték	734 mg/m ³
CK-érték	1468 mg/m ³
Remark	i (ingerlő anyag, amely izgatja a bőrt, nyálkahártyát, szemet vagy mindhármát), sz (Túlerzékenységet okozó (szenzibilizáló) tulajdonságú anyag. Az anyagra érzékeny egyéneken „túlerzékenységen” alapuló bőr-, légzőrendszeri, esetleg más szervet/szervrendszert károsító megbetegedést okozhat); EU4 (2017/164 EU irányelvben közölt érték); N (Irritáló anyagok, egyszerű fojtógázok, csekély egészségkárosító hatással bíró anyagok)
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (ppm)	200 ppm
OEL (15 min ref) (ppm)	400 ppm
Italy - Occupational Exposure Limits	
Local name	Acetato di etile
OEL TWA	734 mg/m ³
OEL TWA [ppm]	200 ppm
OEL STEL	1468 mg/m ³
OEL STEL (ppm)	400 ppm
Regulatory reference	Allegato XXXVIII del D.Lgs. 9 aprile 2008, n. 81 e s.m.i.
Latvia - Occupational Exposure Limits	
Local name	Etikškābes etilesteris (etilacetāts)
OEL TWA	200 mg/m ³
OEL TWA (ppm)	54 ppm
OEL STEL	1468 mg/m ³
OEL STEL [ppm]	400 ppm

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Ethyl acetate (141-78-6)	
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2018. gada 10. jūlijā noteikumiem Nr. 407)
Lithuania - Occupational Exposure Limits	
IPRV (mg/m ³)	500 mg/m ³
IPRV (OEL TWA) [ppm]	150 ppm
NRV (OEL C)	1100 mg/m ³
NRV (OEL C) [ppm]	300 ppm
Netherlands - Occupational Exposure Limits	
Local name	Ethylacetaat
Grenswaarde TGG 8H (mg/m ³)	734 mg/m ³
Grenswaarde TGG 15MIN (mg/m ³)	1468 mg/m ³
Regulatory reference	Arbeidsomstandighedenregeling 2021
Poland - Occupational Exposure Limits	
Local name	Octan etylu
NDS (mg/m ³)	734 mg/m ³
NDSch (mg/m ³)	1468 mg/m ³
Regulatory reference	Dz. U. 2018 poz. 1286
Portugal - Occupational Exposure Limits	
Local name	Acetato de etilo
OEL TWA [ppm]	400 ppm
Regulatory reference	Norma Portuguesa NP 1796:2014
Slovakia - Occupational Exposure Limits	
Local name	Etylacetát (octan etylový)
NPHV (priemerná) (mg/m ³)	734 mg/m ³
NPHV (priemerná) (ppm)	200 ppm
NPHV (OEL STEL)	1468 mg/m ³
NPHV (OEL STEL) [ppm]	400 ppm
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (236/2020 Z. z.)
Slovenia - Occupational Exposure Limits	
Local name	etilacetat
OEL TWA	734 mg/m ³
OEL TWA [ppm]	200 ppm
OEL STEL	1468 mg/m ³
OEL STEL [ppm]	400 ppm
Remark	Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti), EU
Regulatory reference	Uradni list RS, št. 78/2019 z dne 20.12.2019

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Ethyl acetate (141-78-6)	
Spain - Occupational Exposure Limits	
Local name	Acetato de etilo
VLA-ED (mg/m ³)	734 mg/m ³
VLA-ED (ppm)	200 ppm
VLA-EC (mg/m ³)	1468 mg/m ³
VLA-EC (ppm)	400 ppm
Notes	VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo).
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2021. INSHT
Sweden - Occupational Exposure Limits	
Local name	Etylacetat
Nivågränsvärde (NVG) (mg/m ³)	550 mg/m ³
Nivågränsvärde (NVG) (ppm)	150 ppm
Kortidsvärde (KTV) (mg/m ³)	1100 mg/m ³
Kortidsvärde (KTV) (ppm)	300 ppm
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
Norway - Occupational Exposure Limits	
Local name	Etylacetat
Grenseverdier (AN) (mg/m ³)	734 mg/m ³
Grenseverdier (AN) (ppm)	200 ppm
Korttidsverdi (OEL STEL)	1468 mg/m ³
Korttidsverdi (OEL STEL) [ppm]	400 ppm
Remark	E: EU har en veiledende grenseverdi for stoffet.
Regulatory reference	FOR-2020-04-06-695
Switzerland - Occupational Exposure Limits	
VME [mg/m ³]	1400 mg/m ³
MAK (ppm)	400 ppm
KZGW (mg/m ³)	2800 mg/m ³ max. 4x15 min./turno
KZGW (ppm)	800 ppm max. 4x15 min./turno
Butyl acetate (123-86-4)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	n-Butyl acetate
IOEL TWA	241 mg/m ³
IOEL TWA [ppm]	50 ppm
IOELV STEL (mg/m ³)	723 mg/m ³ 723 mg/m ³
IOELV STEL (ppm)	150 ppm 150 ppm

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Butyl acetate (123-86-4)	
Regulatory reference	COMMISSION DIRECTIVE (EU) 2019/1831 COMMISSION DIRECTIVE (EU) 2019/1831
Austria - Occupational Exposure Limits	
MAK [mg/m³]	480 mg/m³
MAK (OEL TWA) [ppm]	100 ppm
MAK Short time value [mg/m³]	480 mg/m³
MAK Short time value [ppm]	100 ppm
Remark (AT)	(gemessen als Momentanwert)
Belgium - Occupational Exposure Limits	
Limit value [mg/m³]	723 mg/m³
Limit value [ppm]	150 ppm
Short time value [mg/m³]	964 mg/m³
Short time value [ppm]	200 ppm
Czech Republic - Occupational Exposure Limits	
Local name	Butylacetát isomery: n-Butyl-acetát
Expoziční limit (PEL) (mg/m³)	950 mg/m³
Expoziční limit (PEL) (ppm)	197 ppm
Expoziční limit (NPK-P) (mg/m³)	1200 mg/m³
Expoziční limit (NPK-P) (ppm)	248 ppm
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 41/2020 Sb.)
Denmark - Occupational Exposure Limits	
Local name	Butylacetat, alle isomere: n-Butylacetat
Grænseværdi (8 timer) (mg/m³)	241 mg/m³
Grænseværdi (8 timer) (ppm)	50 ppm
Grænseværdi (STEL) (mg/m³)	1420 mg/m³
Grænseværdi (STEL) (ppm)	300 ppm
Remark	E (betyder, at stoffet har en EF-grænseværdi)
Regulatory reference	BEK nr 290 af 13/02/2021
Finland - Occupational Exposure Limits	
Local name	n-Butyylasetaatti
HTP-arvo (8h) (mg/m³)	240 mg/m³
HTP-arvo (8h) (ppm)	50 ppm
HTP-arvo (15 min)	725 mg/m³
HTP-arvo (15 min) (ppm)	150 ppm
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveysministeriö)
France - Occupational Exposure Limits	
Local name	Acétate de n-butyle

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Butyl acetate (123-86-4)	
VME [mg/m ³]	710 mg/m ³
VME (OEL TWA) [ppm]	150 ppm
VLE [mg/m ³]	940 mg/m ³
VLE [ppm]	200 ppm
Note (FR)	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	n-Butylacetat
Occupational exposure limit value (mg/m ³)	300 mg/m ³
Occupational exposure limit value (ppm)	62 ppm
Peak exposure limitation factor	2(I)
Remark	AGS - Ausschuss für Gefahrstoffe; Y - Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden
Regulatory reference	TRGS900
Hungary - Occupational Exposure Limits	
Local name	n-BUTIL-ACETÁT
AK-érték	241 mg/m ³
CK-érték	723 mg/m ³
Remark	i (ingerlő anyag, amely izgatja a bőrt, nyálkahártyát, szemet vagy mindhármát), sz (Túlérzékenységet okozó (szenzibilizáló) tulajdonságú anyag. Az anyagra érzékeny egyéneken „túlérzékenységen” alapuló bőr-, légzőrendszeri, esetleg más szervet/szervrendszert károsító megbetegedést okozhat); N (Irritáló anyagok, egyszerű fojtógázok, csekély egészségkárosító hatással bíró anyagok)
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m ³)	710 mg/m ³
OEL (8 hours ref) (ppm)	150 ppm
OEL (15 min ref) (mg/m ³)	950 mg/m ³
OEL (15 min ref) (ppm)	200 ppm
Latvia - Occupational Exposure Limits	
Local name	Etiķskābes butilesteris (n-butilacetāts)
OEL TWA	241 mg/m ³
OEL TWA (ppm)	50 ppm
OEL STEL	723 mg/m ³
OEL STEL [ppm]	150 ppm
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2021. gada 18. februārī noteikumiem Nr. 110)
Lithuania - Occupational Exposure Limits	

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Butyl acetate (123-86-4)	
IPRV (mg/m ³)	500 mg/m ³
IPRV (OEL TWA) [ppm]	100 ppm
TPRV (mg/m ³)	700 mg/m ³
TPRV (ppm)	150 ppm
Poland - Occupational Exposure Limits	
Local name	Octan n-butylu (n-butylu octan)
NDS (mg/m ³)	240 mg/m ³
NDSch (mg/m ³)	720 mg/m ³
Regulatory reference	Dz. U. 2018 poz. 1286
Portugal - Occupational Exposure Limits	
Local name	Acetato de n-butilo
OEL TWA [ppm]	150 ppm
OEL STEL [ppm]	200 ppm
Regulatory reference	Norma Portuguesa NP 1796:2014
Slovakia - Occupational Exposure Limits	
Local name	Butylacetáty: n-Butylacetát
NPHV (priemerná) (mg/m ³)	241 mg/m ³
NPHV (priemerná) (ppm)	50 ppm
NPHV (OEL STEL)	723 mg/m ³
NPHV (OEL STEL) [ppm]	150 ppm
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (236/2020 Z. z.)
Slovenia - Occupational Exposure Limits	
Local name	n-butylacetat
OEL TWA	300 mg/m ³
OEL TWA [ppm]	62 ppm
OEL STEL	600 mg/m ³
OEL STEL [ppm]	124 ppm
Remark	Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti)
Regulatory reference	Uradni list RS, št. 78/2019 z dne 20.12.2019
Spain - Occupational Exposure Limits	
Local name	Acetato de n-butilo
VLA-ED (mg/m ³)	241 mg/m ³
VLA-ED (ppm)	50 ppm
VLA-EC (mg/m ³)	724 mg/m ³
VLA-EC (ppm)	150 ppm
Notes	VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo).

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Butyl acetate (123-86-4)	
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2021. INSHT
Sweden - Occupational Exposure Limits	
Local name	n-Butylacetat
Nivågränsvärde (NVG) (mg/m³)	241 mg/m³
Nivågränsvärde (NVG) (ppm)	50 ppm
Kortidsvärde (KTV) (mg/m³)	723 mg/m³
Kortidsvärde (KTV) (ppm)	150 ppm
Regulatory reference	Hygieniska gränsvärden (AFS 2020:6)
Norway - Occupational Exposure Limits	
Grenseverdier (AN) (mg/m³)	355 mg/m³
Grenseverdier (AN) (ppm)	75 ppm
Switzerland - Occupational Exposure Limits	
VME [mg/m³]	480 mg/m³
MAK (ppm)	100 ppm
KZGW (mg/m³)	960 mg/m³ max. 8x5 min./turno
KZGW (ppm)	200 ppm max. 8x5 min./turno
2-methoxy-1-methylethyl acetate (108-65-6)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	2-Methoxy-1-methylethylacetate
IOEL TWA	275 mg/m³
IOEL TWA [ppm]	50 ppm
IOELV STEL (mg/m³)	550 mg/m³
IOELV STEL (ppm)	100 ppm
Notes	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
Austria - Occupational Exposure Limits	
MAK [mg/m³]	275 mg/m³ (H)
MAK (OEL TWA) [ppm]	50 ppm (H)
MAK Short time value [mg/m³]	550 mg/m³ max. 8x5 min./Schicht (gemessen als Momentanwert), (H)
MAK Short time value [ppm]	100 ppm max. 8x5 min./Schicht (gemessen als Momentanwert), (H)
Belgium - Occupational Exposure Limits	
Limit value [mg/m³]	275 mg/m³
Limit value [ppm]	50 ppm
Short time value [mg/m³]	550 mg/m³
Short time value [ppm]	100 ppm
Remark (BE)	D
Czech Republic - Occupational Exposure Limits	

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2-methoxy-1-methylethyl acetate (108-65-6)	
Local name	2-Methoxy-1-methylethylacetát
Expoziční limity (PEL) (mg/m³)	270 mg/m³
Expoziční limity (PEL) (ppm)	49 ppm
Expoziční limity (NPK-P) (mg/m³)	550 mg/m³
Expoziční limity (NPK-P) (ppm)	100 ppm
Remark	D - při expozici se významně uplatňuje pronikání faktoru kůží, I - dráždí sliznice (oči, dýchací cesty), respektive kůži.
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 41/2020 Sb.)
Denmark - Occupational Exposure Limits	
Local name	2-Methoxy-1-methylethylacetat (Propylenglycolmonomethyletheracetat)
Grænseværdi (8 timer) (mg/m³)	275 mg/m³
Grænseværdi (8 timer) (ppm)	50 ppm
Grænseværdi (STEL) (mg/m³)	550 mg/m³
Grænseværdi (STEL) (ppm)	100 ppm
Remark	E (betyder, at stoffet har en EF-grænseværdi); H (betyder, at stoffet kan optages gennem huden)
Regulatory reference	BEK nr 290 af 13/02/2021
Finland - Occupational Exposure Limits	
Local name	2-Metoksi-1-metyylietyyliasetatti
HTP-arvo (8h) (mg/m³)	270 mg/m³
HTP-arvo (8h) (ppm)	50 ppm
HTP-arvo (15 min)	550 mg/m³
HTP-arvo (15 min) (ppm)	100 ppm
Remark	Iho
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveystieteiden ministeriö)
France - Occupational Exposure Limits	
Local name	Acétate de 2-méthoxy-1-méthyléthyle
VME [mg/m³]	275 mg/m³
VME (OEL TWA) [ppm]	50 ppm
VLE [mg/m³]	550 mg/m³
VLE [ppm]	100 ppm
Note (FR)	Valeurs réglementaires contraignantes; risque de pénétration percutanée
Regulatory reference	Article R4412-149 du Code du travail (réf.: INRS ED 984, 2016; Décret n° 2019-1487; Décret n° 2020-1546; Décret n°2021-434)
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	2-Methoxy-1-methylethylacetat
Occupational exposure limit value (mg/m³)	270 mg/m³
Occupational exposure limit value (ppm)	50 ppm

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2-methoxy-1-methylethyl acetate (108-65-6)	
Limitation of exposure peaks (mg/m ³)	270 mg/m ³
Limitation of exposure peaks (ppm)	50 ppm
Peak exposure limitation factor	1(I)
Remark	DFG - Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission); EU - Europäische Union (Von der EU wurde ein Luftgrenzwert festgelegt: Abweichungen bei Wert und Spitzenbegrenzung sind möglich); Y - Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden
Regulatory reference	TRGS900
Hungary - Occupational Exposure Limits	
Local name	1-METOXI-2-PROPIL-ACETÁT
AK-érték	275 mg/m ³
CK-érték	550 mg/m ³
Remark	EU1 (2000/39/EK irányelvben közölt érték); N (Irritáló anyagok, egyszerű fojtógázok, csekély egészségkárosító hatással bíró anyagok)
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m ³)	275 mg/m ³
OEL (8 hours ref) (ppm)	50 ppm
OEL (15 min ref) (mg/m ³)	550 mg/m ³
OEL (15 min ref) (ppm)	100 ppm
Italy - Occupational Exposure Limits	
Local name	2-Metossi-1-metiletilacetato
OEL TWA	275 mg/m ³
OEL TWA [ppm]	50 ppm
OEL STEL	550 mg/m ³
OEL STEL (ppm)	100 ppm
Remark	Cute
Regulatory reference	Allegato XXXVIII del D.Lgs. 9 aprile 2008, n. 81 e s.m.i.
Latvia - Occupational Exposure Limits	
Local name	2-metoksi-1-metiletilacetāts (propilēnglikola monometilētera acetāts)
OEL TWA	275 mg/m ³
OEL TWA (ppm)	50 ppm
OEL STEL	550 mg/m ³
OEL STEL [ppm]	100 ppm
Remark	Āda
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2015. gada 7. aprīļa noteikumiem Nr. 163)

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2-methoxy-1-methylethyl acetate (108-65-6)	
Lithuania - Occupational Exposure Limits	
IPRV (mg/m ³)	250 mg/m ³
IPRV (OEL TWA) [ppm]	50 ppm
TPRV (mg/m ³)	400 mg/m ³
TPRV (ppm)	75 ppm
Netherlands - Occupational Exposure Limits	
Local name	1-Methoxy-2-propylacetaat
Grenswaarde TGG 8H (mg/m ³)	550 mg/m ³
Regulatory reference	Arbeidsomstandighedenregeling 2021
Poland - Occupational Exposure Limits	
Local name	Octan 2-metoksy-1-metyloetylu
NDS (mg/m ³)	260 mg/m ³
NDSch (mg/m ³)	520 mg/m ³
Remark	Skóra (Oznakowanie substancji notacją „skóra” oznacza, że wchłanianie substancji przez skórę może być tak samo istotne jak przy narażeniu drogą oddechową).
Regulatory reference	Dz. U. 2018 poz. 1286
Slovakia - Occupational Exposure Limits	
Local name	2-Metoxypropán-2-yl acetát (propylénglykol 1-metyléter 2-acetát)
NPHV (priemerná) (mg/m ³)	275 mg/m ³
NPHV (priemerná) (ppm)	50 ppm
NPHV (OEL STEL)	550 mg/m ³
NPHV (OEL STEL) [ppm]	100 ppm
Remark	K - znamená, že faktor môže byť ľahko absorbovaný kožou
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (236/2020 Z. z.)
Slovenia - Occupational Exposure Limits	
Local name	2-metoksi-1-metiletilacetat
OEL TWA	275 mg/m ³
OEL TWA [ppm]	50 ppm
OEL STEL	550 mg/m ³
OEL STEL [ppm]	100 ppm
Remark	K (Lastnost lažjega prehajanja snovi v organizem skozi kožo), Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti), EU
Regulatory reference	Uradni list RS, št. 78/2019 z dne 20.12.2019
Spain - Occupational Exposure Limits	
Local name	Acetato de 1-metil-2-metoxietilo
VLA-ED (mg/m ³)	275 mg/m ³
VLA-ED (ppm)	50 ppm

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2-methoxy-1-methylethyl acetate (108-65-6)	
VLA-EC (mg/m ³)	550 mg/m ³
VLA-EC (ppm)	100 ppm
Notes	Vía dérmica (Indica que, en las exposiciones a esta sustancia, la aportación por la vía cutánea puede resultar significativa para el contenido corporal total si no se adoptan medidas para prevenir la absorción. En estas situaciones, es aconsejable la utilización del control biológico para poder cuantificar la cantidad global absorbida del contaminante), VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo).
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2021. INSHT
Sweden - Occupational Exposure Limits	
Local name	1-Metoxi-2-propylacetat (Propylenglykolmonometyleteracetat)
Nivågränsvärde (NVG) (mg/m ³)	275 mg/m ³
Nivågränsvärde (NVG) (ppm)	50 ppm
Kortidsvärde (KTV) (mg/m ³)	550 mg/m ³
Kortidsvärde (KTV) (ppm)	100 ppm
Remark	H (Ämnet kan lätt upptas genom huden. Det föreskrivna gränsvärdet bedöms ge tillräckligt skydd endast under förutsättning att huden är skyddad mot exponering för ämnet ifråga)
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
Norway - Occupational Exposure Limits	
Local name	1-metoksy-2-propylacetat
Grenseverdier (AN) (mg/m ³)	270 mg/m ³
Grenseverdier (AN) (ppm)	50 ppm
Remark	H: Kjemikalier som kan tas opp gjennom huden; E: EU har en veiledende grenseverdi for stoffet.
Regulatory reference	FOR-2020-04-06-695
Switzerland - Occupational Exposure Limits	
VME [mg/m ³]	275 mg/m ³
MAK (ppm)	50 ppm
KZGW (mg/m ³)	275 mg/m ³
KZGW (ppm)	50 ppm
2-methoxypropyl acetate (70657-70-4)	
Denmark - Occupational Exposure Limits	
Grænseværdi (STEL) (mg/m ³)	220 mg/m ³
Grænseværdi (STEL) (ppm)	40 ppm
Germany - Occupational Exposure Limits (TRGS 900)	
Limitation of exposure peaks (mg/m ³)	224 mg/m ³
Limitation of exposure peaks (ppm)	40 ppm
Slovakia - Occupational Exposure Limits	
NPHV (priemerná) (mg/m ³)	110 mg/m ³
NPHV (priemerná) (ppm)	20 ppm

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2-methoxypropyl acetate (70657-70-4)	
Spain - Occupational Exposure Limits	
VLA-ED (mg/m ³)	28 mg/m ³
VLA-ED (ppm)	5 ppm
VLA-EC (mg/m ³)	220 mg/m ³
VLA-EC (ppm)	40 ppm
Notes	TR1B,r
2-methylpropan-1-ol (78-83-1)	
Czech Republic - Occupational Exposure Limits	
Local name	Butanol (všechny isomery)
Expoziční limit (PEL) (mg/m ³)	300 mg/m ³
Expoziční limit (PEL) (ppm)	100 ppm
Expoziční limit (NPK-P) (mg/m ³)	600 mg/m ³
Expoziční limit (NPK-P) (ppm)	200 ppm
Denmark - Occupational Exposure Limits	
Local name	Isobutylalkohol
Grænseværdi (8 timer) (mg/m ³)	150 mg/m ³
Grænseværdi (8 timer) (ppm)	50 ppm
France - Occupational Exposure Limits	
Local name	Alcool isobutylique
VME [mg/m ³]	150 mg/m ³
VME (OEL TWA) [ppm]	50 ppm
Note (FR)	Valeurs recommandées/admises
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	2-Methylpropan-1-ol
Occupational exposure limit value (mg/m ³)	310 mg/m ³
Occupational exposure limit value (ppm)	100 ppm
Limitation of exposure peaks (mg/m ³)	310 mg/m ³
Limitation of exposure peaks (ppm)	100 ppm
Remark	DFG,Y
Poland - Occupational Exposure Limits	
Local name	2-Metylopropan-1-ol (izobutyłowy alkohol)
NDS (mg/m ³)	100 mg/m ³
NDSch (mg/m ³)	200 mg/m ³
Portugal - Occupational Exposure Limits	
Local name	Isobutanol (Álcool isobutílico)
OEL TWA [ppm]	50 ppm
Slovakia - Occupational Exposure Limits	

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2-methylpropan-1-ol (78-83-1)	
Local name	izo-Butanol
NPHV (priemerná) (mg/m³)	310 mg/m³
NPHV (priemerná) (ppm)	100 ppm
Slovenia - Occupational Exposure Limits	
Local name	2-metilpropan-1-ol (izobutanol)
OEL TWA	310 mg/m³
OEL TWA [ppm]	100 ppm
OEL STEL	310 mg/m³
OEL STEL [ppm]	100 ppm
Spain - Occupational Exposure Limits	
Local name	Isobutanol (Alcohol isobutílico)
VLA-ED (mg/m³)	154 mg/m³
VLA-ED (ppm)	50 ppm
Sweden - Occupational Exposure Limits	
Local name	iso-Butanol
Nivågränsvärde (NVG) (mg/m³)	150 mg/m³
Nivågränsvärde (NVG) (ppm)	50 ppm
Kortidsvärde (KTV) (mg/m³)	250 mg/m³
Kortidsvärde (KTV) (ppm)	75 ppm
Norway - Occupational Exposure Limits	
Local name	2-metylpropan-1-ol
Grenseverdier (AN) (mg/m³)	75 mg/m³
Grenseverdier (AN) (ppm)	25 ppm
Takverdi (OEL C) [1]	75 mg/m³
Takverdi (OEL C) [2]	25 ppm
Aluminum oxide (1344-28-1)	
Austria - Occupational Exposure Limits	
MAK [mg/m³]	10 mg/m³ (gemessen als einatembare Aerosolanteil) 5 mg/m³ (alveolengängiger Anteil)
MAK Short time value [mg/m³]	20 mg/m³ (gemessen als einatembare Aerosolanteil) max. 2x60 min./Schicht 10 mg/m³ (alveolengängiger Anteil) max. 2x60 min./Schicht
Belgium - Occupational Exposure Limits	
Limit value [mg/m³]	10 mg/m³
Remark (BE)	(oxyde d') (en Al)
Denmark - Occupational Exposure Limits	
Local name	Aluminiumoxid
Grænseværdi (8 timer) (mg/m³)	5 mg/m³ beregnet som Al, total 2 mg/m³ beregnet som Al, respirabel

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Aluminum oxide (1344-28-1)	
Grænseværdi (STEL) (mg/m³)	10 mg/m³ (total) 4 mg/m³ (respirabel)
Regulatory reference	BEK nr 290 af 13/02/2021
France - Occupational Exposure Limits	
Local name	Aluminium (Trioxyde de di-)
VME [mg/m³]	10 mg/m³
Note (FR)	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Germany - Occupational Exposure Limits (TRGS 900)	
Occupational exposure limit value (mg/m³)	3 mg/m³
Remark	(gemessen als alveolengängiger Staubanteil)
Hungary - Occupational Exposure Limits	
Local name	ALUMÍNIUM OXID (Al-ra számítva)
AK-érték	5 mg/m³ 2 mg/m³ respirábilis frakció
Remark	N (Irritáló anyagok, egyszerű fojtógázok, csekély egészségkárosító hatással bíró anyagok)
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m³)	10 mg/m³ (total inhalable dust) 4 mg/m³ (respirable dust)
Latvia - Occupational Exposure Limits	
Local name	Alumīnija oksīds
OEL TWA	6 mg/m³ dezintegrācijas aerosola veidā 4 mg/m³ maisījumā ar niķeli (līdz 15%), (elektrokorunds)
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2011. gada 1. februārī noteikumiem Nr. 92)
Lithuania - Occupational Exposure Limits	
IPRV (mg/m³)	2 mg/m³
Poland - Occupational Exposure Limits	
Local name	Tritlenek glinu
NDS (mg/m³)	2.5 mg/m³ w przeliczeniu na Al: frakcja wdychalna 1.2 mg/m³ w przeliczeniu na Al: frakcja respirabilna
Remark	Frakcja wdychalna – frakcja aerozolu wnikaćca przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia. Frakcja respirabilna – frakcja aerozolu wnikaćca do dróg oddechowych, która stwarza zagrożenie dla zdrowia po zdeponowaniu w obszarze wymiany gazowej.
Regulatory reference	Dz. U. 2018 poz. 1286
Slovakia - Occupational Exposure Limits	
Local name	Oxid hlinitý

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Aluminum oxide (1344-28-1)	
NPHV (priemerná) (mg/m³)	4 mg/m³ inhalovateľná frakcia – prach 1.5 mg/m³ respirabilná frakcia – prach
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (236/2020 Z. z.)
Spain - Occupational Exposure Limits	
Local name	Óxido de aluminio (Corindón)
VLA-ED (mg/m³)	10 mg/m³
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2021. INSHT
Sweden - Occupational Exposure Limits	
Nivågränsvärde (NVG) (mg/m³)	5 mg/m³ (inhalable aerosol) 2 mg/m³ (respirable aerosol)
Norway - Occupational Exposure Limits	
Local name	Aluminiumoxid
Grenseverdier (AN) (mg/m³)	10 mg/m³
Remark	1) Grenseverdien er fastsatt lik verdien for sjenerende støv.
Regulatory reference	FOR-2020-04-06-695
Switzerland - Occupational Exposure Limits	
VME [mg/m³]	3 mg/m³
Remark	(respirable aerosol)
Aluminum hydroxide (21645-51-2)	
Austria - Occupational Exposure Limits	
MAK (OEL TWA) [ppm]	10 ppm (gemessen als einatembarer Aerosolanteil) 5 ppm (alveolengängiger Anteil)
MAK Short time value [ppm]	20 ppm (gemessen als einatembarer Aerosolanteil) max. 2x60 min./Schicht 10 ppm (alveolengängiger Anteil) max. 2x60 min./Schicht
Latvia - Occupational Exposure Limits	
Local name	Alumīnija hidroksīds
OEL TWA	6 mg/m³
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumi Nr. 325 (Grozījumi Ministru kabineta 2011. gada 1. februārī noteikumi Nr. 92)
Lithuania - Occupational Exposure Limits	
IPRV (mg/m³)	6 mg/m³
Poland - Occupational Exposure Limits	
Local name	Wodorotlenek glinu
NDS (mg/m³)	2.5 mg/m³ w przeliczeniu na Al: frakcja wdychalna 1.2 mg/m³ w przeliczeniu na Al: frakcja respirabilna
Remark	Frakcja wdychalna – frakcja aerozolu wnikaćca przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia. Frakcja respirabilna – frakcja aerozolu wnikaćca do dróg oddechowych, która stwarza zagrożenie dla zdrowia po zdeponowaniu w obszarze wymiany gazowej.
Regulatory reference	Dz. U. 2018 poz. 1286

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Aluminum hydroxide (21645-51-2)	
Slovakia - Occupational Exposure Limits	
Local name	Hydroxid hlinitý
NPHV (priemerná) (mg/m³)	4 mg/m³ inhalovateľná frakcia – prach 1.5 mg/m³ respirabilná frakcia – prach
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (236/2020 Z. z.)
Switzerland - Occupational Exposure Limits	
VME [mg/m³]	3 mg/m³
Remark	(alveolengängige Fraktion)
Silicon dioxide (amorphous) (112926-00-8)	
Austria - Occupational Exposure Limits	
MAK [mg/m³]	4 mg/m³
Remark (AT)	(einatembare Fraktion)
Czech Republic - Occupational Exposure Limits	
Local name	Amorfní SiO ₂
Expoziční limity (PEL) (mg/m³)	4 mg/m³
Remark	Prachy s možným fibrogenním účinkem.
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 41/2020 Sb.)
Finland - Occupational Exposure Limits	
HTP-arvo (8h) (mg/m³)	5 mg/m³
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	Kieselsäuren, amorphe
Occupational exposure limit value (mg/m³)	4 mg/m³
Remark	(einatembare Fraktion)
Regulatory reference	TRGS900
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m³)	2.4 mg/m³ 6 mg/m³ (total inhalable dust)
Latvia - Occupational Exposure Limits	
Local name	Silīcija dioksīds
OEL TWA	1 mg/m³
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2020. gada 7. janvārī noteikumiem Nr. 11)
Slovenia - Occupational Exposure Limits	
Local name	silikagel
OEL TWA	4 mg/m³
Remark	Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti)
Regulatory reference	Uradni list RS, št. 78/2019 z dne 20.12.2019

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Silicon dioxide (amorphous) (112926-00-8)	
Spain - Occupational Exposure Limits	
VLA-ED (mg/m ³)	10 mg/m ³
Notes	(respirable aerosol)
Switzerland - Occupational Exposure Limits	
VME [mg/m ³]	4 mg/m ³
Remark	(einatembarer Staub)
Titanium dioxide (13463-67-7)	
Austria - Occupational Exposure Limits	
MAK [mg/m ³]	5 mg/m ³ (alveolengängiger Anteil)
MAK Short time value [mg/m ³]	10 mg/m ³ max. 2x60 min./Schicht (alveolengängiger Anteil)
Belgium - Occupational Exposure Limits	
Limit value [mg/m ³]	10 mg/m ³
Remark (BE)	(dioxyde de)
Denmark - Occupational Exposure Limits	
Local name	Titandioxid
Grænseværdi (8 timer) (mg/m ³)	6 mg/m ³ beregnet som Ti
Grænseværdi (STEL) (mg/m ³)	12 mg/m ³
Regulatory reference	BEK nr 290 af 13/02/2021
France - Occupational Exposure Limits	
Local name	Titane (dioxyde de), en Ti
VME [mg/m ³]	10 mg/m ³
Note (FR)	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m ³)	10 mg/m ³ total inhalable dust 4 mg/m ³ respirable dust
Latvia - Occupational Exposure Limits	
Local name	Titāna dioksīds
OEL TWA	10 mg/m ³
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2011. gada 1. februārī noteikumiem Nr. 92)
Lithuania - Occupational Exposure Limits	
IPRV (mg/m ³)	5 mg/m ³
Poland - Occupational Exposure Limits	
Local name	Ditlenek tytanu
NDS (mg/m ³)	10 mg/m ³ frakcja wdychalna
Remark	Frakcja wdychalna – frakcja aerozolu wnikaćca przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia. Obowiązuje jednocześnie

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Titanium dioxide (13463-67-7)	
	oznaczanie stężeń frakcji respirabilnej krzemionki krystalicznej.
Regulatory reference	Dz. U. 2018 poz. 1286
Portugal - Occupational Exposure Limits	
Local name	Dióxido de titânio
OEL TWA (mg/m³)	10 mg/m³
Remark	A4 (Agente não classificável como carcinogénico no Homem)
Regulatory reference	Norma Portuguesa NP 1796:2014
Slovakia - Occupational Exposure Limits	
Local name	Oxid titaničitý
NPHV (priemerná) (mg/m³)	5 mg/m³
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (236/2020 Z. z.)
Spain - Occupational Exposure Limits	
Local name	Dióxido de titanio
VLA-ED (mg/m³)	10 mg/m³
Notes	inhalable aerosol
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2021. INSHT
Sweden - Occupational Exposure Limits	
Local name	Titandioxid
Nivågränsvärde (NVG) (mg/m³)	5 mg/m³ totaldamm
Remark	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)
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
Norway - Occupational Exposure Limits	
Local name	Titandioksid
Grenseverdier (AN) (mg/m³)	5 mg/m³
Regulatory reference	FOR-2020-04-06-695
Switzerland - Occupational Exposure Limits	
VME [mg/m³]	3 mg/m³
Remark	(respirable aerosol)
(2-Methoxymethylethoxy)-propanol (34590-94-8)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	(2-Methoxymethylethoxy)-propanol
IOEL TWA	308 mg/m³
IOEL TWA [ppm]	50 ppm
Notes	Skin

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(2-Methoxymethylethoxy)-propanol (34590-94-8)	
	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC COMMISSION DIRECTIVE 2000/39/EC
Austria - Occupational Exposure Limits	
MAK [mg/m ³]	307 mg/m ³
MAK (OEL TWA) [ppm]	50 ppm
MAK Short time value [mg/m ³]	614 mg/m ³
MAK Short time value [ppm]	100 ppm
Remark (AT)	max. 8x5 min./Schicht (gemessen als Momentanwert)
Belgium - Occupational Exposure Limits	
Limit value [mg/m ³]	308 mg/m ³
Limit value [ppm]	50 ppm
Remark (BE)	D
Czech Republic - Occupational Exposure Limits	
Local name	(2-Methoxymethylethoxy)-propanol (směs isomerů)
Expoziční limit (PEL) (mg/m ³)	270 mg/m ³
Expoziční limit (PEL) (ppm)	43.7 ppm
Expoziční limit (NPK-P) (mg/m ³)	550 mg/m ³
Expoziční limit (NPK-P) (ppm)	89.1 ppm
Remark	D - při expozici se významně uplatňuje pronikání faktoru kůže.
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 41/2020 Sb.)
Denmark - Occupational Exposure Limits	
Local name	Dipropylenglycolmethylether (Methoxypropoxypropanol)
Grænseværdi (8 timer) (mg/m ³)	309 mg/m ³
Grænseværdi (8 timer) (ppm)	50 ppm
Grænseværdi (STEL) (mg/m ³)	600 mg/m ³
Grænseværdi (STEL) (ppm)	100 ppm
Remark	E (betyder, at stoffet har en EF-grænseværdi); H (betyder, at stoffet kan optages gennem huden)
Regulatory reference	BEK nr 290 af 13/02/2021
Finland - Occupational Exposure Limits	
Local name	(2-Metoksimeetylietoksi)-propanoli
HTP-arvo (8h) (mg/m ³)	310 mg/m ³
HTP-arvo (8h) (ppm)	50 ppm
Remark	Iho
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveystiete)
France - Occupational Exposure Limits	

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(2-Methoxymethylethoxy)-propanol (34590-94-8)	
Local name	(2-Méthoxyméthyléthoxy)-propanol
VME [mg/m³]	308 mg/m³
VME (OEL TWA) [ppm]	50 ppm
Note (FR)	Valeurs réglementaires contraignantes; risque de pénétration percutanée
Regulatory reference	Article R4412-149 du Code du travail (réf.: INRS ED 984, 2016; Décret n° 2019-1487; Décret n° 2020-1546; Décret n°2021-434)
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	(2-Methoxymethyl-ethoxy)propanol (Isomerengemisch)
Occupational exposure limit value (mg/m³)	310 mg/m³
Occupational exposure limit value (ppm)	50 ppm
Limitation of exposure peaks (mg/m³)	310 mg/m³
Limitation of exposure peaks (ppm)	50 ppm
Peak exposure limitation factor	1(I)
Remark	DFG - Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission); EU - Europäische Union (Von der EU wurde ein Luftgrenzwert festgelegt: Abweichungen bei Wert und Spitzenbegrenzung sind möglich); 11 - Summe aus Dampf und Aerosolen
Regulatory reference	TRGS900
Hungary - Occupational Exposure Limits	
Local name	(2-METOXIMETILETOXI)-PROPANOL (Dipropilénlikol-monometil-éter)
AK-érték	308 mg/m³
CK-érték	308 mg/m³
Remark	EU1 (2000/39/EK irányelvben közölt érték); R (Azok az anyagok, amelyek egészségkárosító hatása RÖVID expozíció hatására jelentkezik)
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m³)	308 mg/m³
OEL (8 hours ref) (ppm)	50 ppm
Italy - Occupational Exposure Limits	
Local name	1-(3-Methoxypropoxy)propan-1-ol
OEL TWA	308 mg/m³
OEL TWA [ppm]	50 ppm
Remark	Cute
Regulatory reference	Allegato XXXVIII del D.Lgs. 9 aprile 2008, n. 81 e s.m.i.
Latvia - Occupational Exposure Limits	
Local name	Metoksipropoksi propanols (dipropilēnlikola monometilēteris, DPM)
OEL TWA	308 mg/m³
OEL TWA (ppm)	50 ppm

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(2-Methoxymethylethoxy)-propanol (34590-94-8)	
Remark	Āda
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2011. gada 1. februārī noteikumiem Nr. 92)
Lithuania - Occupational Exposure Limits	
IPRV (mg/m ³)	300 mg/m ³
IPRV (OEL TWA) [ppm]	50 ppm
TPRV (mg/m ³)	450 mg/m ³
TPRV (ppm)	75 ppm
Netherlands - Occupational Exposure Limits	
Local name	Dipropyleenglycolmethylether
Grenswaarde TGG 8H (mg/m ³)	300 mg/m ³
Regulatory reference	Arbeidsomstandighedenregeling 2021
Poland - Occupational Exposure Limits	
Local name	(2-Metoksymetyloetoksy)propanol - mieszanina izomerów: 1-(2-metoksy-1-metyloetoksy)propan-2-ol, 1-(2-metoksy-2-metyloetoksy)propan-2-ol, 2-(2-metoksy-1-metyloetoksy)propan-1-ol
NDS (mg/m ³)	240 mg/m ³
NDSch (mg/m ³)	480 mg/m ³
Remark	Skóra (Oznakowanie substancji notacją „skóra” oznacza, że wchłanianie substancji przez skórę może być tak samo istotne jak przy narażeniu drogą oddechową).
Regulatory reference	Dz. U. 2018 poz. 1286
Portugal - Occupational Exposure Limits	
Local name	2-Metoximetiletoxipropanol (DPGME)
OEL TWA [ppm]	100 ppm
OEL STEL [ppm]	150 ppm
Remark	P (Toxicidade percutânea)
Regulatory reference	Norma Portuguesa NP 1796:2014
Slovakia - Occupational Exposure Limits	
Local name	2-Metoxymetyl-etoxipropanol (dipropylén glykol mono-metyléter)
NPHV (priemerná) (mg/m ³)	308 mg/m ³
NPHV (priemerná) (ppm)	50 ppm
Remark	K - znamená, že faktor môže byť ľahko absorbovaný kožou
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (236/2020 Z. z.)
Slovenia - Occupational Exposure Limits	
Local name	(2-metoksimetiletoksi)propanol (mešanica izomer)
OEL TWA	308 mg/m ³
OEL TWA [ppm]	50 ppm
OEL STEL	308 mg/m ³

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(2-Methoxymethylethoxy)-propanol (34590-94-8)	
OEL STEL [ppm]	50 ppm
Remark	K (Lastnost lažjega prehajanja snovi v organizem skozi kožo), EU
Regulatory reference	Uradni list RS, št. 78/2019 z dne 20.12.2019
Spain - Occupational Exposure Limits	
Local name	Éter metílico de dipropilenglicol
VLA-ED (mg/m ³)	308 mg/m ³
VLA-ED (ppm)	50 ppm
Notes	Vía dérmica (Indica que, en las exposiciones a esta sustancia, la aportación por la vía cutánea puede resultar significativa para el contenido corporal total si no se adoptan medidas para prevenir la absorción. En estas situaciones, es aconsejable la utilización del control biológico para poder cuantificar la cantidad global absorbida del contaminante), VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo).
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2021. INSHT
Sweden - Occupational Exposure Limits	
Local name	Dipropylenglykolmonometyleter
Nivågränsvärde (NVG) (mg/m ³)	300 mg/m ³
Nivågränsvärde (NVG) (ppm)	50 ppm
Kortidsvärde (KTV) (mg/m ³)	450 mg/m ³
Kortidsvärde (KTV) (ppm)	75 ppm
Remark	H (Ämnet kan lätt upptas genom huden. Det föreskrivna gränsvärdet bedöms ge tillräckligt skydd endast under förutsättning att huden är skyddad mot exponering för ämnet ifråga); V (Vägledande kortidsvärde ska användas som ett rekommenderat högsta värde som inte bör överskridas)
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
Norway - Occupational Exposure Limits	
Local name	(2-metoksymetyletoksy)-propanol (Dipropylenglykolmetyleter)
Grenseverdier (AN) (mg/m ³)	300 mg/m ³
Grenseverdier (AN) (ppm)	50 ppm
Remark	H: Kjemikalier som kan tas opp gjennom huden; E: EU har en veiledende grenseverdi for stoffet.
Regulatory reference	FOR-2020-04-06-695
Switzerland - Occupational Exposure Limits	
VME [mg/m ³]	300 mg/m ³
MAK (ppm)	50 ppm
KZGW (mg/m ³)	300 mg/m ³
KZGW (ppm)	50 ppm
Ethanol (64-17-5)	
Austria - Occupational Exposure Limits	
MAK [mg/m ³]	1900 mg/m ³
MAK (OEL TWA) [ppm]	1000 ppm

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Ethanol (64-17-5)	
MAK Short time value [mg/m³]	3800 mg/m³ max. 3x60 min./Schicht (gemessen als Momentanwert)
MAK Short time value [ppm]	2000 ppm max. 3x60 min./Schicht (gemessen als Momentanwert)
Belgium - Occupational Exposure Limits	
Limit value [mg/m³]	1907 mg/m³
Limit value [ppm]	1000 ppm
Czech Republic - Occupational Exposure Limits	
Local name	Ethanol (Ethylalkohol)
Expoziční limity (PEL) (mg/m³)	1000 mg/m³
Expoziční limity (PEL) (ppm)	530 ppm
Expoziční limity (NPK-P) (mg/m³)	3000 mg/m³
Expoziční limity (NPK-P) (ppm)	1590 ppm
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 41/2020 Sb.)
Denmark - Occupational Exposure Limits	
Local name	Ethanol (Ethylalkohol)
Grænseværdi (8 timer) (mg/m³)	1900 mg/m³
Grænseværdi (8 timer) (ppm)	1000 ppm
Grænseværdi (STEL) (mg/m³)	3800 mg/m³
Grænseværdi (STEL) (ppm)	2000 ppm
Regulatory reference	BEK nr 290 af 13/02/2021
Finland - Occupational Exposure Limits	
Local name	Etanoli
HTP-arvo (8h) (mg/m³)	1900 mg/m³
HTP-arvo (8h) (ppm)	1000 ppm
HTP-arvo (15 min)	2500 mg/m³
HTP-arvo (15 min) (ppm)	1300 ppm
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveystieteiden ministeriö)
France - Occupational Exposure Limits	
Local name	Alcool éthylique
VME [mg/m³]	1900 mg/m³
VME (OEL TWA) [ppm]	1000 ppm
VLE [mg/m³]	9500 mg/m³
VLE [ppm]	5000 ppm
Note (FR)	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	Ethanol
Occupational exposure limit value (mg/m³)	960 mg/m³

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Ethanol (64-17-5)	
Occupational exposure limit value (ppm)	500 ppm
Peak exposure limitation factor	2(II)
Remark	DFG - Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission); Y - Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden
Regulatory reference	TRGS900
Hungary - Occupational Exposure Limits	
Local name	ETIL-ALKOHOL
AK-érték	1900 mg/m ³
CK-érték	7600 mg/m ³
Remark	N (Irritáló anyagok, egyszerű fojtógázok, csekély egészségkárosító hatással bíró anyagok)
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
Ireland - Occupational Exposure Limits	
OEL (15 min ref) (ppm)	1000 ppm
Latvia - Occupational Exposure Limits	
Local name	Etilspirts (etanols)
OEL TWA	1000 mg/m ³
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325
Lithuania - Occupational Exposure Limits	
IPRV (mg/m ³)	1000 mg/m ³
IPRV (OEL TWA) [ppm]	500 ppm
TPRV (mg/m ³)	1900 mg/m ³
TPRV (ppm)	1000 ppm
Netherlands - Occupational Exposure Limits	
Local name	Ethanol
Grenswaarde TGG 8H (mg/m ³)	260 mg/m ³
Grenswaarde TGG 15MIN (mg/m ³)	1900 mg/m ³
Remark	Kankerverwekkende stof. H (Huidopname) Stoffen die relatief gemakkelijk door de huid kunnen worden opgenomen, hetgeen een substantiële bijdrage kan betekenen aan de totale inwendige blootstelling, hebben in de lijst een H-aanduiding. Bij deze stoffen moeten naast maatregelen tegen inademing ook adequate maatregelen ter voorkoming van huidcontact worden genomen.
Regulatory reference	Arbeidsomstandighedenregeling 2021
Poland - Occupational Exposure Limits	
Local name	Etanol (alkohol etylowy)
NDS (mg/m ³)	1900 mg/m ³
Regulatory reference	Dz. U. 2018 poz. 1286
Portugal - Occupational Exposure Limits	

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Ethanol (64-17-5)	
Local name	Etanol (Álcool etílico)
OEL STEL [ppm]	1000 ppm
Remark	A3 (Agente carcinogénico confirmado nos animais de laboratório con relevância desconhecida no Homem)
Regulatory reference	Norma Portuguesa NP 1796:2014
Slovakia - Occupational Exposure Limits	
Local name	Etylalkohol (etanol)
NPHV (priemerná) (mg/m ³)	960 mg/m ³
NPHV (priemerná) (ppm)	500 ppm
NPHV (OEL STEL)	1920 mg/m ³
NPHV (OEL STEL) [ppm]	1000 ppm
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (236/2020 Z. z.)
Slovenia - Occupational Exposure Limits	
Local name	etanol (etilalkohol)
OEL TWA	960 mg/m ³
OEL TWA [ppm]	500 ppm
OEL STEL	1920 mg/m ³
OEL STEL [ppm]	1000 ppm
Remark	Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti)
Regulatory reference	Uradni list RS, št. 78/2019 z dne 20.12.2019
Spain - Occupational Exposure Limits	
Local name	Etanol (Alcohol etílico)
VLA-ED (mg/m ³)	1910 mg/m ³
VLA-ED (ppm)	1000 ppm
VLA-EC (mg/m ³)	1910 mg/m ³
VLA-EC (ppm)	1000 ppm
Notes	s,
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2021. INSHT
Sweden - Occupational Exposure Limits	
Local name	Etanol
Nivågränsvärde (NVG) (mg/m ³)	1000 mg/m ³
Nivågränsvärde (NVG) (ppm)	500 ppm
Kortidsvärde (KTV) (mg/m ³)	1900 mg/m ³
Kortidsvärde (KTV) (ppm)	1000 ppm
Remark	V (Vägledande kortidsgränsvärde ska användas som ett rekommenderat högsta värde som inte bör överskridas)
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)

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Ethanol (64-17-5)	
Norway - Occupational Exposure Limits	
Local name	Etanol
Grenseverdier (AN) (mg/m³)	950 mg/m³
Grenseverdier (AN) (ppm)	500 ppm
Regulatory reference	FOR-2020-04-06-695
Switzerland - Occupational Exposure Limits	
VME [mg/m³]	960 mg/m³
MAK (ppm)	500 ppm
KZGW (mg/m³)	1920 mg/m³
KZGW (ppm)	1000 ppm
Isopropanol (67-63-0)	
Austria - Occupational Exposure Limits	
MAK [mg/m³]	500 mg/m³
MAK (OEL TWA) [ppm]	200 ppm
MAK Short time value [mg/m³]	2000 mg/m³ max. 4x15 min./Schicht
MAK Short time value [ppm]	800 ppm max. 4x15 min./Schicht
Belgium - Occupational Exposure Limits	
Limit value [mg/m³]	500 mg/m³
Limit value [ppm]	200 ppm
Short time value [mg/m³]	1000 mg/m³
Short time value [ppm]	400 ppm
Czech Republic - Occupational Exposure Limits	
Local name	2-Propanol (Isopropanol; Izopropylalkohol)
Expoziční limity (PEL) (mg/m³)	500 mg/m³
Expoziční limity (PEL) (ppm)	200 ppm
Expoziční limity (NPK-P) (mg/m³)	1000 mg/m³
Expoziční limity (NPK-P) (ppm)	400 ppm
Remark	I - dráždí sliznice (oči, dýchací cesty), respektive kůži.
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 41/2020 Sb.)
Denmark - Occupational Exposure Limits	
Local name	Isopropylalkohol (Isopropanol; 2-Propanol; sec-Propylalkohol)
Grænseværdi (8 timer) (mg/m³)	490 mg/m³
Grænseværdi (8 timer) (ppm)	200 ppm
Grænseværdi (STEL) (mg/m³)	980 mg/m³
Grænseværdi (STEL) (ppm)	400 ppm
Regulatory reference	BEK nr 290 af 13/02/2021
Finland - Occupational Exposure Limits	

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Isopropanol (67-63-0)	
Local name	2-Propanoli
HTP-arvo (8h) (mg/m³)	500 mg/m³
HTP-arvo (8h) (ppm)	200 ppm
HTP-arvo (15 min)	620 mg/m³
HTP-arvo (15 min) (ppm)	250 ppm
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveystieteiden ministeriö)
France - Occupational Exposure Limits	
Local name	Alcool isopropylique
VLE [mg/m³]	980 mg/m³
VLE [ppm]	400 ppm
Note (FR)	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	Propan-2-ol
Occupational exposure limit value (mg/m³)	500 mg/m³
Occupational exposure limit value (ppm)	200 ppm
Peak exposure limitation factor	2(II)
Remark	DFG - Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission); Y - Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden
Regulatory reference	TRGS900
Germany - Biological limit values (TRGS 903)	
Biological limit value	50 mg/l Aceton (Blut; Expositionsende bzw. Schichtende)
Hungary - Occupational Exposure Limits	
Local name	IZOPROPIL-ALKOHOL
AK-érték	500 mg/m³
CK-érték	1000 mg/m³
Remark	b (Bőrön át is felszívódik), i (ingerlő anyag, amely izgatja a bőrt, nyálkahártyát, szemet vagy mindhármat); R (Azok az anyagok, amelyek egészségkárosító hatása RÖVID expozíció hatására jelentkezik)
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
Hungary - Biological Exposure Indices	
Local name	Izopropil-alkohol (2-Propanol)
BEI	25 mg/l Biológiai expozíciós (hatás) mutató: aceton - Biológiai minta: vizeletben - Mintavétel ideje: m.v. (műszak végén) 430 µmol/l Biológiai expozíciós (hatás) mutató: aceton - Biológiai minta: vizeletben - Mintavétel ideje: m.v. (műszak végén)
Remark	A foglalkozási vegyi expozíció esetén ajánlott biológiai expozíciós és hatásmutatók

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Isopropanol (67-63-0)	
	határértékei
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (ppm)	200 ppm
OEL (15 min ref) (ppm)	400 ppm
Latvia - Occupational Exposure Limits	
Local name	Izopropanols (2-propanols, izopropilspirts, 1-metil-1-etanols)
OEL TWA	350 mg/m ³
OEL STEL	600 mg/m ³
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2011. gada 1. februārī noteikumiem Nr. 92)
Lithuania - Occupational Exposure Limits	
IPRV (mg/m ³)	350 mg/m ³
IPRV (OEL TWA) [ppm]	150 ppm
TPRV (mg/m ³)	600 mg/m ³
TPRV (ppm)	250 ppm
Netherlands - Occupational Exposure Limits	
Grenswaarde TGG 8H (mg/m ³)	650 mg/m ³
MAC-TGG (OEL TWA) [ppm]	250 ppm
Poland - Occupational Exposure Limits	
Local name	Propan-2-ol (izopropylowy alkohol)
NDS (mg/m ³)	900 mg/m ³
NDSCh (mg/m ³)	1200 mg/m ³
Remark	Skóra (Oznakowanie substancji notacją „skóra” oznacza, że wchłanianie substancji przez skórę może być tak samo istotne jak przy narażeniu drogą oddechową).
Regulatory reference	Dz. U. 2018 poz. 1286
Portugal - Occupational Exposure Limits	
Local name	2-Propanol (isopropanol ou álcool isopropílico)
OEL TWA [ppm]	200 ppm
OEL STEL [ppm]	400 ppm
Remark	A4 (Agente não classificável como carcinogénico no Homem); IBE (Índice biológico de exposição)
Regulatory reference	Norma Portuguesa NP 1796:2014
Portugal - Biological Exposure Indices	
Local name	2-Propanol
BEI	40 mg/l Parâmetro: Acetona - Meio: urina - Momento da amostragem: Fim do turno no fim da semana de trabalho - Notação: Vb (Valor basal), Ne (Não específico)
Regulatory reference	Norma Portuguesa NP 1796:2014

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Isopropanol (67-63-0)	
Slovakia - Occupational Exposure Limits	
Local name	Izopropylalkohol (propán-2-ol)
NPHV (priemerná) (mg/m³)	500 mg/m³
NPHV (priemerná) (ppm)	200 ppm
NPHV (OEL STEL)	1000 mg/m³
NPHV (OEL STEL) [ppm]	400 ppm
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (236/2020 Z. z.)
Slovenia - Occupational Exposure Limits	
Local name	propan-2-ol (izopropilalkohol; izopropanol)
OEL TWA	500 mg/m³
OEL TWA [ppm]	200 ppm
OEL STEL	1000 mg/m³
OEL STEL [ppm]	400 ppm
Remark	Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti), BAT (Biološka mejna vrednost)
Regulatory reference	Uradni list RS, št. 78/2019 z dne 20.12.2019
Slovenia - Biological limit values	
Local name	2-propanol
BLV	25 mg/l Parameter: aceton - Biološki vzorec: kri - Čas vzorčenja: ob koncu delovne izmene 25 mg/l Parameter: aceton - Biološki vzorec: urin - Čas vzorčenja: ob koncu delovne izmene
Regulatory reference	Uradni list RS, št. 78/2018 z dne 4.12.2018
Spain - Occupational Exposure Limits	
Local name	Isopropanol (Alcohol isopropílico)
VLA-ED (mg/m³)	500 mg/m³
VLA-ED (ppm)	200 ppm
VLA-EC (mg/m³)	1000 mg/m³
VLA-EC (ppm)	400 ppm
Notes	VLB® (Agente químico que tiene Valor Límite Biológico), s (Esta sustancia tiene prohibida total o parcialmente su comercialización y uso como fitosanitario y/o como biocida. Para una información detallada acerca de las prohibiciones consúltese: Base de datos de productos biocidas: http://www.msssi.gob.es/ciudadanos/productos.do?tipo=plaguicidas Base de datos de productos fitosanitarios http://www.magrama.gob.es/agricultura/pags/fitos/registro/fichas/pdf/Lista_sa.pdf).
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2021. INSHT
Spain - Biological limit values	
Local name	Isopropanol (Alcohol isopropílico)
BLV	40 mg/l Parámetro: Acetona - Medio: Orina - Momento de muestreo: Final de la semana laboral - Notas: F (Fondo. El indicador está generalmente presente en cantidades detectables en personas no expuestas laboralmente. Estos niveles de fondo están

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Isopropanol (67-63-0)	
	considerados en el valor VLB), I (Significa que el indicador biológico es inespecífico puesto que puede encontrarse después de la exposición a otros agentes químicos)
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2021. INSHT
Sweden - Occupational Exposure Limits	
Local name	Isopropanol
Nivågränsvärde (NVG) (mg/m³)	350 mg/m³
Nivågränsvärde (NVG) (ppm)	150 ppm
Kortidsvärde (KTV) (mg/m³)	600 mg/m³
Kortidsvärde (KTV) (ppm)	250 ppm
Remark	V (Vägledande kortidsgränsvärde ska användas som ett rekommenderat högsta värde som inte bör överskridas)
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
Norway - Occupational Exposure Limits	
Local name	2-propanol (Isopropanol)
Grenseverdier (AN) (mg/m³)	245 mg/m³
Grenseverdier (AN) (ppm)	100 ppm
Regulatory reference	FOR-2020-04-06-695
Switzerland - Occupational Exposure Limits	
VME [mg/m³]	500 mg/m³
MAK (ppm)	200 ppm 25 ppm acetone (urina; fine dell'esposizione / del turno) 25 ppm acetone (sangue; fine dell'esposizione / del turno)
KZGW (mg/m³)	1000 mg/m³ max. 4x15 min./turno
KZGW (ppm)	400 ppm max. 4x15 min./turno
propyl acetate (109-60-4)	
Austria - Occupational Exposure Limits	
Remark (AT)	(gemessen als Momentanwert)
Czech Republic - Occupational Exposure Limits	
Local name	n-Propylacetát
Expoziční limity (PEL) (mg/m³)	800 mg/m³
Expoziční limity (PEL) (ppm)	190 ppm
Expoziční limity (NPK-P) (mg/m³)	1000 mg/m³
Expoziční limity (NPK-P) (ppm)	240 ppm
Denmark - Occupational Exposure Limits	
Local name	n-Propylacetat
Grænseværdi (8 timer) (mg/m³)	625 mg/m³
Grænseværdi (8 timer) (ppm)	150 ppm
Grænseværdi (STEL) (mg/m³)	1250 mg/m³

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propyl acetate (109-60-4)	
Grænseværdi (STEL) (ppm)	300 ppm
Finland - Occupational Exposure Limits	
Local name	1-Propyyliasettaatti
HTP-arvo (8h) (mg/m³)	420 mg/m³
HTP-arvo (8h) (ppm)	100 ppm
HTP-arvo (15 min)	850 mg/m³
HTP-arvo (15 min) (ppm)	200 ppm
France - Occupational Exposure Limits	
Local name	Acétate de n-propyle
VME [mg/m³]	840 mg/m³
VME (OEL TWA) [ppm]	200 ppm
Note (FR)	Valeurs recommandées/admises
Hungary - Occupational Exposure Limits	
Local name	PROPIL-ACETÁT
AK-érték	840 mg/m³
CK-érték	840 mg/m³
Latvia - Occupational Exposure Limits	
Local name	Propilacetāts (etiķskābespropilesteris)
OEL TWA	200 mg/m³
Poland - Occupational Exposure Limits	
Local name	Octan propylu
NDS (mg/m³)	200 mg/m³
NDSCh (mg/m³)	400 mg/m³
Portugal - Occupational Exposure Limits	
Local name	Acetato de n-propilo
OEL TWA [ppm]	200 ppm
OEL STEL [ppm]	250 ppm
Slovakia - Occupational Exposure Limits	
Local name	Propylacetát (octan propylový)
NPHV (priemerná) (mg/m³)	400 mg/m³
NPHV (priemerná) (ppm)	100 ppm
NPHV (OEL STEL)	800 mg/m³
NPHV (OEL STEL) [ppm]	200 ppm
Slovenia - Occupational Exposure Limits	
Local name	propilacetat
OEL TWA	420 mg/m³
OEL TWA [ppm]	100 ppm

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propyl acetate (109-60-4)	
OEL STEL	420 mg/m ³
OEL STEL [ppm]	100 ppm
Spain - Occupational Exposure Limits	
Local name	Acetato de n-propilo
VLA-ED (mg/m ³)	849 mg/m ³
VLA-ED (ppm)	200 ppm
VLA-EC (mg/m ³)	1060 mg/m ³
VLA-EC (ppm)	250 ppm
Sweden - Occupational Exposure Limits	
Local name	Propylacetat
Nivågränsvärde (NVG) (mg/m ³)	400 mg/m ³
Nivågränsvärde (NVG) (ppm)	100 ppm
Kortidsvärde (KTV) (mg/m ³)	800 mg/m ³
Kortidsvärde (KTV) (ppm)	200 ppm
Norway - Occupational Exposure Limits	
Local name	n-propylacetat
Grenseverdier (AN) (mg/m ³)	420 mg/m ³
Grenseverdier (AN) (ppm)	100 ppm
29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper (147-14-8)	
Latvia - Occupational Exposure Limits	
Local name	Vara ftalocianīns
OEL TWA	5 mg/m ³
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2011. gada 1. februārī noteikumiem Nr. 92)
barium sulfate (7727-43-7)	
Belgium - Occupational Exposure Limits	
Limit value [mg/m ³]	10 mg/m ³
Remark (BE)	(sulfate de)
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	Bariumsulfat
Occupational exposure limit value (mg/m ³)	1.25 mg/m ³ A (mg/m ³) 10 mg/m ³ E (mg/m ³)
Remark	AGS,DFG
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m ³)	2 mg/m ³
Portugal - Occupational Exposure Limits	
Local name	Sulfato de bário

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barium sulfate (7727-43-7)	
OEL TWA (mg/m ³)	5 mg/m ³ I (Fração inalável), E (O valor aplica-se a partículas sem amianto e contendo menos de 1 % de sílica cristalina)
Regulatory reference	Norma Portuguesa NP 1796:2014
Slovakia - Occupational Exposure Limits	
Local name	Síran (sulfát) bárnatý
NPHV (priemerná) (mg/m ³)	4 mg/m ³ inhalovateľná frakcia 1.5 mg/m ³ respirabilná frakcia
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (236/2020 Z. z.)
Spain - Occupational Exposure Limits	
Local name	Sulfato de bario
VLA-ED (mg/m ³)	10 mg/m ³
Notes	e (Este valor es para la materia particulada que no contenga amianto y menos de un 1% de sílice cristalina).
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2021. INSHT
Aluminium (7429-90-5)	
Austria - Occupational Exposure Limits	
MAK [mg/m ³]	10 mg/m ³ (gemessen als einatembarer Aerosolanteil) 5 mg/m ³ (alveolengängiger Anteil)
MAK Short time value [mg/m ³]	20 mg/m ³ (gemessen als einatembarer Aerosolanteil) max. 2x60 min./Schicht 10 mg/m ³ (alveolengängiger Anteil) max. 2x60 min./Schicht
Belgium - Occupational Exposure Limits	
Limit value [mg/m ³]	1 mg/m ³
Remark (BE)	(Aluminium, métal et composés insolubles, fraction alvéolaire)
Czech Republic - Occupational Exposure Limits	
Local name	Hliník a jeho oxidy (s výjimkou gama Al ₂ O ₃)
Expoziční limity (PEL) (mg/m ³)	10 mg/m ³
Remark	Prachy s převážně nespecifickým účinkem.
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 41/2020 Sb.)
Denmark - Occupational Exposure Limits	
Local name	Aluminium, pulver og støv
Grænseværdi (8 timer) (mg/m ³)	5 mg/m ³ total 2 mg/m ³ respirabel
Grænseværdi (STEL) (mg/m ³)	4 mg/m ³ (respirabel) 10 mg/m ³ (total)
Regulatory reference	BEK nr 290 af 13/02/2021
Finland - Occupational Exposure Limits	
HTP-arvo (8h) (mg/m ³)	2 mg/m ³
France - Occupational Exposure Limits	
Local name	Aluminium

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Aluminium (7429-90-5)	
VME [mg/m³]	10 mg/m³ (métal) 5 mg/m³ (pulvérulent)
Note (FR)	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	Aluminium
Germany - Biological limit values (TRGS 903)	
Biological limit value	200 µg/l
Remark	Aluminium (Urin; Expositionsende bzw. Schichtende)
Hungary - Occupational Exposure Limits	
Local name	ALUMINIUM (oldható, AL-ra számolva)
AK-érték	1 mg/m³ respirábilis frakció
Remark	N (Irritáló anyagok, egyszerű fojtógázok, csekély egészségkárosító hatással bíró anyagok)
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
Hungary - Biological Exposure Indices	
Local name	Alumínium
BEI	0.06 mg/g creatinine Biológiai expozíciós (hatás) mutató: alumínium - Biológiai minta: vizeletben - Mintavétel ideje: n.k. (nem kritikus) 0.25 µmol/mmol Creatinine Biológiai expozíciós (hatás) mutató: alumínium - Biológiai minta: vizeletben - Mintavétel ideje: n.k. (nem kritikus)
Remark	A foglalkozási vegyi expozíció esetén ajánlott biológiai expozíciós és hatásmutatók határértékei
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m³)	1 mg/m³
Latvia - Occupational Exposure Limits	
Local name	Alumīnijs un tā sakausedžumi (pēc alumīnija)
OEL TWA	2 mg/m³
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2011. gada 1. februārī noteikumiem Nr. 92)
Lithuania - Occupational Exposure Limits	
IPRV (mg/m³)	2 mg/m³ (alveoline frakcija) 1 mg/m³ (Aluminiis (metalas) ir jo tirpus junginiai, kaip Al) 5 mg/m³ (akvepiamoji frakcija)
Netherlands - Occupational Exposure Limits	
Grenswaarde TGG 8H (mg/m³)	10 mg/m³
Poland - Occupational Exposure Limits	
Local name	Glin metaliczny, glin proszek (niestabilizowany)

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Aluminium (7429-90-5)	
NDS (mg/m ³)	2.5 mg/m ³ frakcja wdychalna 1.2 mg/m ³ frakcja respirabilna
Remark	Frakcja wdychalna – frakcja aerozolu wnikaćca przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia. Frakcja respirabilna – frakcja aerozolu wnikaćca do dróg oddechowych, która stwarza zagrożenie dla zdrowia po zdeponowaniu w obszarze wymiany gazowej.
Regulatory reference	Dz. U. 2018 poz. 1286
Portugal - Occupational Exposure Limits	
Local name	Alumínio e compostos insolúveis, expresso em Al
OEL TWA (mg/m ³)	1 mg/m ³ R (Fração respirável)
Remark	A4 (Agente não classificável como carcinogénico no Homem)
Regulatory reference	Norma Portuguesa NP 1796:2014
Slovakia - Occupational Exposure Limits	
Local name	Hliník kovový
NPHV (priemerná) (mg/m ³)	4 mg/m ³ inhalovateľná frakcia – prach 1.5 mg/m ³ respirabilná frakcia – prach
NPHV (priemerná) (ppm)	60 µg/g creatinine (Hliník, M,a) 25 µg/g creatinine (Celkový, M,,d) 150 µg/g creatinine (Celkový,M,b)
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (236/2020 Z. z.)
Slovakia - Biological limit values	
Local name	Hliník
BLV	60 µg/g creatinine Zisťovaný faktor: Hliník - Vyšetřovaný materiál: moč - Čas odberu vzorky: a) žiadne obmedzenie
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (Zmena: 471/2011 Z.z.)
Slovenia - Biological limit values	
Local name	aluminij
BLV	200 µg/l Parameter: aluminij - Biološki vzorec: urin - Čas vzorčenja: ob koncu delovne izmene
Regulatory reference	Uradni list RS, št. 78/2018 z dne 4.12.2018
Spain - Occupational Exposure Limits	
Local name	Aluminio
VLA-ED (mg/m ³)	10 mg/m ³ (inhalable aerosol) 5 mg/m ³ (respirable aerosol)
Sweden - Occupational Exposure Limits	
Local name	Aluminium, lösliga föreningar (som Al)
Nivågränsvärde (NVG) (mg/m ³)	1 mg/m ³ (Aluminium, lösliga föreningar, som Al) 5 mg/m ³ (totaldamm, som Al) 2 mg/m ³ (respirabelt damm, som Al)
Remark	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. Filterdiameteren är normalt 37

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Aluminium (7429-90-5)	
	mm, men kan även vara 25 mm. Trots sitt namn provtas inte den totala mängden luftburna partiklar med denna metod)
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
Norway - Occupational Exposure Limits	
Local name	Aluminiumpulver (pyroteknikk)
Grenseverdier (AN) (mg/m ³)	5 mg/m ³
Regulatory reference	FOR-2020-04-06-695
Switzerland - Occupational Exposure Limits	
VME [mg/m ³]	3 mg/m ³
Remark	(alveolengängiger Staub)

8.1.2. Recommended monitoring procedures

No data available

8.1.3. Air contaminants formed

No data available

8.1.4. DNEL and PNEC

No data available

8.1.5. Control banding

No data available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

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

8.2.2. Personal protection equipment

Personal protective equipment:

Avoid all unnecessary exposure.

8.2.2.1. Eye and face protection

Eye protection:

Chemical goggles or safety glasses. EN166

8.2.2.2. Skin protection

Hand protection:

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

8.2.2.3. Respiratory protection

Respiratory protection:

None under normal use

8.2.2.4. Thermal hazards

No data available

8.2.3. Environmental exposure controls

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
Colour : Variable.

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Appearance	: Solid marker containing liquid colored paint.
Odour	: Solvent.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: 78.3 °C
Flammability	: Flammable liquid and vapour.
Explosive limits	: Not available
Lower explosive limit (LEL)	: Not available
Upper explosive limit (UEL)	: Not available
Flash point	: 12.2 °C
Auto-ignition temperature	: 287 °C
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: Not available
Solubility	: insoluble in water.
Log Kow	: Not available
Log Pow	: 0.7
Vapour pressure	: 11.8
Vapour pressure at 50 °C	: Not available
Density	: Not available
Relative density	: 1 – 1.33
Relative vapour density at 20 °C	: Not available
Particle size	: Not applicable
Particle size distribution	: Not applicable
Particle shape	: Not applicable
Particle aspect ratio	: Not applicable
Particle aggregation state	: Not applicable
Particle agglomeration state	: Not applicable
Particle specific surface area	: Not applicable
Particle dustiness	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No data available

9.2.2. Other safety characteristics

Relative evaporation rate (butylacetate=1)	: < 1
VOC content	: 50 – 60 %

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known.

10.2. Chemical stability

Flammable liquid and vapour.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

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

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

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

LD50 Oral rat	4016 mg/kg bodyweight
LD50 Dermal rat	> 2000 mg/kg bodyweight
LC50 Inhalation rat [ppm]	> 7000 ppm 6 hr

Ethyl acetate (141-78-6)

LD50 Oral rat	4934 mg/kg
LD50 oral	10200 mg/kg
LD50 Dermal rabbit	> 20000 mg/kg
LC50 Inhalation rat	> 18 mg/l/4h

Butyl acetate (123-86-4)

LD50 Oral rat	10760 mg/kg
LD50 Dermal rabbit	> 14112 mg/kg
LC50 Inhalation rat	> 21 mg/l/4h

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

LD50 Oral rat	8532 mg/kg
LD50 Dermal rat	> 2000 mg/kg
LC50 Inhalation rat [ppm]	4345 ppm 6 h

2-methoxypropyl acetate (70657-70-4)

LC50 Inhalation rat [ppm]	2700 ppm 6 h
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2-methylpropan-1-ol (78-83-1)

LD50 Oral rat	3350 mg/kg
LD50 Dermal rabbit	2460 mg/kg
LC50 Inhalation rat	24.6 mg/l/4h

Aluminum oxide (1344-28-1)

LD50 Oral rat	> 15900 mg/kg
LC50 Inhalation rat	7.6 mg/l/4h

Silicon dioxide (amorphous) (112926-00-8)

LD50 Oral rat	> 5000 mg/kg
LD50 Dermal rabbit	> 2000 mg/kg
LC50 Inhalation rat	> 58.8 mg/l/4h

Titanium dioxide (13463-67-7)

LD50 Oral rat	> 5000 mg/kg
LC50 Inhalation rat	> 6.82 mg/l/4h

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

LD50 Oral rat	> 5000 mg/kg
LD50 Dermal rat	> 19020 mg/kg

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(2-Methoxymethylethoxy)-propanol (34590-94-8)	
LC50 Inhalation rat	> 1667 mg/l/4h
LC50 Inhalation rat (dust/mist)	> 1667 mg/l/4h
Ethanol (64-17-5)	
LD50 Oral rat	10470 mg/kg
LD50 Dermal rabbit	> 20000 mg/kg
LC50 Inhalation rat	133.8 mg/l/4h
Isopropanol (67-63-0)	
LD50 Oral rat	5840 mg/kg
LD50 Dermal rabbit	16.4 ml/kg
LC50 Inhalation rat [ppm]	> 10000 ppm/4h
propyl acetate (109-60-4)	
LD50 Oral rat	8700 mg/kg
LD50 Dermal rabbit	> 17800 mg/kg
LC50 Inhalation rat	32 mg/l/4h
4-[[4-(aminocarbonyl)phenyl]azo]-N-(2-ethoxyphenyl)-3-hydroxynaphthalene-2-carboxamide, C.I. Pigment Red 170 (naphthol <1%) (2786-76-7)	
LD50 Oral rat	> 15000 mg/kg
LC50 Inhalation rat	> 1580 mg/m³ 4 h
29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper (147-14-8)	
LD50 Oral rat	> 10000 mg/kg
LD50 Dermal rat	> 5000 mg/kg
barium sulfate (7727-43-7)	
LD50 Oral rat	307 g/kg
LD50 Dermal rat	> 2000 mg/kg
[N,N,N',N'',N'''-hexaethyl-29H,31H-phthalocyaninetrimethylaminato(2-)-N29,N30,N31,N32]copper (28654-73-1)	
LD50 Oral rat	> 10000 mg/kg
LD50 Dermal rat	> 2500 mg/kg
Aluminium (7429-90-5)	
LD50 Oral rat	> 15900 mg/kg
LC50 Inhalation rat	> 2.3 mg/l/4h
Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met)
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met)
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (The chemicals used are not available in the physical form known to cause cancer.)
Silicon dioxide (amorphous) (112926-00-8)	
IARC group	3 - Not classifiable

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Titanium dioxide (13463-67-7)	
IARC group	2B - Possibly carcinogenic to humans
Ethanol (64-17-5)	
IARC group	1 - Carcinogenic to humans, Alcoholic beverages
Isopropanol (67-63-0)	
IARC group	3 - Not classifiable
Titanium dioxide (13463-67-7)	
NOAEL (chronic, oral, animal/male, 2 years)	5 mg/kg bodyweight rat
Additional information	Carcinogen, cat 1A or 1B. Inhalation of dust
barium sulfate (7727-43-7)	
NOAEL (chronic, oral, animal/male, 2 years)	60 mg/kg bodyweight
NOAEL (chronic, oral, animal/female, 2 years)	75 mg/kg bodyweight
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
Ethyl acetate (141-78-6)	
NOAEL (animal/male, F0/P)	26400 mg/kg
NOAEL (animal/female, F0/P)	26400 mg/kg
STOT-single exposure	: May cause drowsiness or dizziness.
1-Methoxy-2-propanol (107-98-2)	
STOT-single exposure	May cause drowsiness or dizziness.
Ethyl acetate (141-78-6)	
STOT-single exposure	May cause drowsiness or dizziness.
Butyl acetate (123-86-4)	
STOT-single exposure	May cause drowsiness or dizziness.
2-methoxypropyl acetate (70657-70-4)	
STOT-single exposure	May cause respiratory irritation.
2-methylpropan-1-ol (78-83-1)	
STOT-single exposure	May cause respiratory irritation. May cause drowsiness or dizziness.
Isopropanol (67-63-0)	
STOT-single exposure	May cause drowsiness or dizziness.
propyl acetate (109-60-4)	
STOT-single exposure	May cause drowsiness or dizziness.
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
Ethyl acetate (141-78-6)	
NOAEL (subchronic, oral, animal/male, 90 days)	900 mg/kg bodyweight
NOAEL (subchronic, oral, animal/female, 90 days)	900 mg/kg bodyweight
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)

11.2. Information on other hazards

No data available

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SECTION 12: Ecological information

12.1. Toxicity

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

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

1-Methoxy-2-propanol (107-98-2)	
LC50 fish 1	20800 mg/l
EC50 crustacea	23300 mg/l
ErC50 algae	> 1000 mg/l
Ethyl acetate (141-78-6)	
LC50 fish 1	220 mg/l
EC50 crustacea	1200 mg/l
NOEC chronic fish	> 75.6 mg/l 32 d
2-methoxy-1-methylethyl acetate (108-65-6)	
LC50 fish 1	100 – 180 mg/l
EC50 crustacea	> 500 mg/l 48 h
ErC50 algae	> 1000 mg/l
2-methylpropan-1-ol (78-83-1)	
LC50 fish 1	1430 mg/l 96 h
EC50 crustacea	1100 mg/l 48 h
Aluminum oxide (1344-28-1)	
EC50 crustacea	1470 mg/l
NOEC (acute)	50 mg/l
Silicon dioxide (amorphous) (112926-00-8)	
LC50 fish 1	> 10000 mg/l
EC50 crustacea	> 1000 mg/l
(2-Methoxymethylethoxy)-propanol (34590-94-8)	
LC50 fish 1	> 1000 mg/l <i>Poecilia reticulata</i>
ErC50 algae	> 1000 mg/l
Ethanol (64-17-5)	
LC50 fish 1	14200 mg/l
EC50 crustacea	5012 mg/l
Isopropanol (67-63-0)	
LC50 fish 1	10000 mg/l
propyl acetate (109-60-4)	
LC50 fish 1	60 mg/l 96 h
EC50 crustacea	91.5 mg/l 48 h

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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)

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

29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper (147-14-8)

LC50 fish 1	> 100 mg/l 96 h
EC50 crustacea	> 500 mg/l 48 h

barium sulfate (7727-43-7)

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

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

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

Aluminium (7429-90-5)

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

12.2. Persistence and degradability

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Persistence and degradability	Not established.
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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

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

Biodegradation	70 (70 – 80) % 28 d
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Silicon dioxide (amorphous) (112926-00-8)

Persistence and degradability	Product persists.
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(2-Methoxymethylethoxy)-propanol (34590-94-8)

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

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Ethanol (64-17-5)	
Biodegradation	> 96 % 28 d
Isopropanol (67-63-0)	
Persistence and degradability	Readily biodegradable.
propyl acetate (109-60-4)	
Persistence and degradability	Readily biodegradable.
Biodegradation	62 % 5 d
4-[[4-(aminocarbonyl)phenyl]azo]-N-(2-ethoxyphenyl)-3-hydroxynaphthalene-2-carboxamide, C.I. Pigment Red 170 (naphthol <1%) (2786-76-7)	
Persistence and degradability	Not readily biodegradable.
Biodegradation	0 % 28 d
29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper (147-14-8)	
Persistence and degradability	Readily biodegradable.

12.3. Bioaccumulative potential

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Log Pow	0.7
Bioaccumulative potential	Not established.
1-Methoxy-2-propanol (107-98-2)	
Bioaccumulative potential	Not expected to bioaccumulate.
Ethyl acetate (141-78-6)	
Bioaccumulative potential	Not expected to bioaccumulate.
2-methoxy-1-methylethyl acetate (108-65-6)	
Log Pow	0.43
2-methylpropan-1-ol (78-83-1)	
Log Pow	0.76
Ethanol (64-17-5)	
Bioaccumulative potential	Not expected to bioaccumulate.
Isopropanol (67-63-0)	
Bioaccumulative potential	Not expected to bioaccumulate.
propyl acetate (109-60-4)	
Log Pow	1.23
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
29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper (147-14-8)	
BCF fish 1	< 3.6

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barium sulfate (7727-43-7)

BCF fish 1	68.4 L/kg
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12.4. Mobility in soil

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Ecology - soil	No data 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

12.6. Endocrine disrupting properties

No data available

12.7. Other adverse effects

Additional information : No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

SECTION 14: Transport information

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

14.1. UN number or ID 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

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

14.3. Transport hazard class(es)

ADR

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



IMDG

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



IATA

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



ADN

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



RID

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



14.4. Packing group

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

14.5. Environmental hazards

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

14.6. Special precautions for user

Overland transport

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



Tunnel restriction code (ADR)	: D/E
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Transport by sea

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

Air transport

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

Inland waterway transport

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

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Rail transport

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

14.7. Maritime transport in bulk according to IMO instruments

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

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
3(a)	Paint-Riter™ Valve Action Paint Marker White, Yellow, Red, Blue, Green, Orange, Aluminum, Pink, Light Blue, Light Green, Brown, Gold ; 1-Methoxy-2-propanol ; Ethyl acetate ; Butyl acetate ; 2-methoxy-1-methylethyl acetate ; 2-methoxypropyl acetate ; 2-methylpropan-1-ol ; Ethanol ; Isopropanol ; propyl acetate	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F
3(b)	Paint-Riter™ Valve Action Paint Marker White, Yellow, Red, Blue, Green, Orange, Aluminum, Pink, Light Blue, Light Green, Brown, Gold ; 1-Methoxy-2-propanol ; Ethyl acetate ; Butyl acetate ; 2-methoxypropyl acetate ; 2-methylpropan-1-ol ; Isopropanol ; propyl acetate	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10
30.	2-methoxypropyl acetate	Substances which are classified as reproductive toxicant category 1A or 1B in Part 3 of Annex VI to Regulation (EC) No 1272/2008 and are listed in Appendix 5 or Appendix 6, respectively.
40.	Paint-Riter™ Valve	Substances classified as flammable gases category 1 or 2, flammable liquids categories 1,

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EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
	Action Paint Marker White, Yellow, Red, Blue, Green, Orange, Aluminum, Pink, Light Blue, Light Green, Brown, Gold ; 1-Methoxy-2- propanol ; Ethyl acetate ; Butyl acetate ; 2-methoxy- 1-methylethyl acetate ; 2- methoxypropyl acetate ; 2-methylpropan-1-ol ; Ethanol ; Isopropanol ; propyl acetate ; Aluminium	2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

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

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

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

VOC content : 50 – 60 %

15.1.2. National regulations

All ingredients are listed on the Canadian Domestic Substances List (DSL) or Non-Domestic Substances List (NDSL).

France	
Occupational diseases	
Code	Description
RG 84	Conditions caused by liquid organic solvents for professional use: saturated or unsaturated aliphatic or cyclic liquid hydrocarbons and mixtures thereof; liquid halogenated hydrocarbons; nitrated derivatives of aliphatic hydrocarbons; alcohols; glycols, glycol ethers; ketones; aldehydes; aliphatic and cyclic ethers, including tetrahydrofuran; esters; dimethylformamide and dimethylacetamine; acetonitrile and propionitrile; pyridine; dimethylsulfone and dimethylsulfoxide

Germany

Water hazard class (WGK) : 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 Hazardous Incident Ordinance (12. BImSchV)

Netherlands

ABM category : A(3) - hazardous for aquatic organisms, may have longterm hazardous effects in aquatic environment

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

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

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

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

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

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Denmark

Class for fire hazard : Class I-1
Store unit : 1 liter
Classification remarks : F <Flam. Liq. 2>; Emergency management guidelines for the storage of flammable liquids must be followed
Danish National Regulations : Young people below the age of 18 years are not allowed to use the product
The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

Switzerland

Storage class (LK) : LK 3 - Flammable liquids

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Indication of changes:

SDS EU format according to COMMISSION REGULATION (EU) 2020/878.

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:

	White, Yellow, Red, Blue, Green, Orange, Pink, Light Blue, Light Green, Brown.
Aquatic Chronic 4	Hazardous to the aquatic environment — Chronic Hazard, Category 4
Carc. 2	Carcinogenicity, Category 2
EUH211	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1

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

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Full text of H- and EUH-statements:	
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
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H228	Flammable solid.
H261	In contact with water releases flammable gases.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H360D	May damage the unborn child.
H413	May cause long lasting harmful effects to aquatic life.
Repr. 1B	Reproductive toxicity, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1B	Skin sensitisation, category 1B
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
Water-react. 2	Substances and Mixtures which, in contact with water, emit flammable gases, Category 2

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Flam. Liq. 2	H225	On basis of test data
Skin Sens. 1B	H317	Calculation method
STOT SE 3	H336	Calculation method

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.