

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878
Issue date: 9/23/2020 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 Black, Purple
Other means of identification : UFI
Black: QWR6-C5NJ-6SK9-RT14
Purple: G3S6-D51A-TSK9-2G68

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

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

1.2.2. Uses advised against

Restrictions on use : 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 220115 Minsk	+375 (0)17 201 9158
BELGIUM	Centre Anti-Poisons/Antigifocentrum c/o Hôpital Central de la Base - Reine Astrid	Rue Bruyn 1 B-1120 Bruxelles/Brussel	+32 70 245 245
BULGARIA	Национален токсикологичен информационен център National Clinical Toxicology Centre, Emergency Medical Institute "Pirogov"	21 Tottleben Boulevard 1606 SOFIA	+359 2 9154 409
CROATIA	Poisons Control Centre Institute of Medical Research & Occupational Health	Ksaverska Cesta 2 P.O. Box 291 HR-10000 Zagreb	+385 1 234 8342
CZECH REPUBLIC	Toxikologické informační středisko Clinic For Occupational Medicine, 1st Medical Faculty, Charles University	Na Bojišti 1 120 00 Praha 2	+42 2 2491 9293 +42 2 2491 5402
DENMARK	Giftlinjen Bispebjerg Hospital	Bispebjerg Bakke 23, 60, 1 DK-2400 København NV	+45 82 12 12 12 +45 35 31 55 55
ESTONIA	Mürgistusteabekeskus	Gonsiori 29 15027 Tallinn	+372 626 93 90
FINLAND	Myrkytystietokeskus	P.O.B 340 (Haartmaninkatu 4) HUS SF - 00029 Helsinki	+358 9 471 977
FRANCE	ORFILA		+33 1 45 42 59 59
GERMANY	Berliner Betrieb für Zentrale Gesundheitliche Aufgaben	Oranienburger Strasse 285 13437 Berlin	+49 30 19240
GERMANY	Informations und Beratungszentrum für Vergiftungsfälle	Kirrberger Straße, Gebäude 9 D-66421 Homburg/Saar	+49 6841 19240
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)	1437 Budapest PO Box 839 1097 Budapest, Nagyvárad tér 2	+36 80 20 11 99

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flammable liquids, Category 2	H225
Serious eye damage/eye irritation, Category 2	H319
Skin sensitisation, category 1B	H317
Specific target organ toxicity — Single exposure, Category 3, Narcosis	H336

Full text of H- 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.)



GHS02

GHS07

Signal word (CLP)	: Danger
Contains	: 1-Methoxy-2-propanol, Rosin, fumarated, polymer with ethylene glycol and pentaerythritol
Hazard statements (CLP)	: H225 - Highly flammable liquid and vapour. H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H336 - May cause drowsiness or dizziness.
Precautionary statements (CLP)	: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 - Keep container tightly closed. P240 - Ground and bond container and receiving equipment. P241 - Use explosion-proof electrical/ventilating/lighting equipment. P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P264 - Wash hands, forearms and face thoroughly after handling.

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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.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 - Call a POISON CENTRE or doctor if you feel unwell.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P370+P378 - In case of fire: Use media other than water to extinguish.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P403+P235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

EUH-statements

: Purple.
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

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
1-Methoxy-2-propanol	CAS-No.: 107-98-2 EC-No.: 203-539-1 EC Index-No.: 603-064-00-3	30 - 60	Flam. Liq. 3, H226 STOT SE 3, H336
Ethanol	CAS-No.: 64-17-5 EC-No.: 200-578-6 EC Index-No.: 603-002-00-5	10 - 25	Flam. Liq. 2, H225
Isopropanol	CAS-No.: 67-63-0 EC-No.: 200-661-7 EC Index-No.: 603-117-00-0	1 - 10	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Rosin, fumarated, polymer with ethylene glycol and pentaerythritol	CAS-No.: 68152-57-8 EC-No.: 614-317-2	3 - 7	Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 4, H413
Titanium dioxide	CAS-No.: 13463-67-7 EC-No.: 236-675-5	0 - 5	Carc. 2, H351
Carbon black	CAS-No.: 1333-86-4 EC-No.: 215-609-9	0 - 2	Not classified
2-methoxy-1-methylethyl acetate	CAS-No.: 108-65-6 EC-No.: 203-603-9 EC Index-No.: 607-195-00-7	0 - 2	Flam. Liq. 3, H226

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
propyl acetate (Note C)	CAS-No.: 109-60-4 EC-No.: 203-686-1 EC Index-No.: 607-024-00-6	0.5 - 1.5	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Ethyl acetate	CAS-No.: 141-78-6 EC-No.: 205-500-4 EC Index-No.: 607-022-00-5	0.5 - 1.5	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
(2-Methoxymethylethoxy)-propanol	CAS-No.: 34590-94-8 EC-No.: 252-104-2	0.1 - 0.5	Not classified
Silicon dioxide (amorphous)	CAS-No.: 112926-00-8 EC-No.: 231-545-4	<0.1	Not classified
Aluminum hydroxide	CAS-No.: 21645-51-2 EC-No.: 244-492-7	<0.1	Not classified
Butyl acetate	CAS-No.: 123-86-4 EC-No.: 204-658-1 EC Index-No.: 607-025-00-1	0 - 0.5	Flam. Liq. 3, H226 STOT SE 3, H336
Aluminum oxide	CAS-No.: 1344-28-1 EC-No.: 215-691-6	<0.1	Not classified
2-methoxypropyl acetate	CAS-No.: 70657-70-4 EC-No.: 274-724-2 EC Index-No.: 607-251-00-0	<0.1	Flam. Liq. 3, H226 Repr. 1B, H360D STOT SE 3, H335
Toluene	CAS-No.: 108-88-3 EC-No.: 203-625-9 EC Index-No.: 601-021-00-3	<0.1	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412
2-methylpropan-1-ol	CAS-No.: 78-83-1 EC-No.: 201-148-0 EC Index-No.: 603-108-00-1	<0.1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336

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

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

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

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

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

Treat symptomatically.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

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

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Highly flammable liquid and vapour. Burning produces irritating, toxic and noxious fumes. Flammable vapours may accumulate in the container. Heavier than air, vapours may travel long distances along ground, ignite and flash back to source.
Explosion hazard : Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.
Hazardous decomposition products in case of fire : Carbon oxides (CO, CO₂). Hydrocarbon.

5.3. Advice for firefighters

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

6.1.1. For non-emergency personnel

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

6.1.2. For emergency responders

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

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

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

6.4. Reference to other sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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

7.2. Conditions for safe storage, including any incompatibilities

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

7.3. Specific end use(s)

Marking.

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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	
Local name	1-Methoxy-2-propanol (Propylenglycolmonomethylether)
Grænseværdi (8 timer) (mg/m ³)	185 mg/m ³
Grænseværdi (8 timer) (ppm)	50 ppm
Grænseværdi (STEL) (mg/m ³)	370 mg/m ³
Grænseværdi (STEL) (ppm)	100 ppm
Finland - Occupational Exposure Limits	
Local name	1-Metoksi-2-propanoli
HTP-arvo (8h) (mg/m ³)	370 mg/m ³
HTP-arvo (8h) (ppm)	100 ppm
HTP-arvo (15 min)	560 mg/m ³

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1-Methoxy-2-propanol (107-98-2)	
HTP-arvo (15 min) (ppm)	150 ppm
France - Occupational Exposure Limits	
Local name	Ether méthylique du propylène-glycol (1-Méthoxy-2-propanol)
VME [mg/m ³]	188 mg/m ³
VME (OEL TWA) [ppm]	50 ppm
VLE [mg/m ³]	375 mg/m ³
VLE [ppm]	100 ppm
Note (FR)	Peau
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	1-Methoxy-2-propanol
Occupational exposure limit value (mg/m ³)	370 mg/m ³
Occupational exposure limit value (ppm)	100 ppm
Limitation of exposure peaks (mg/m ³)	740 mg/m ³
Limitation of exposure peaks (ppm)	200 ppm
Remark	DFG,EU,Y
Hungary - Occupational Exposure Limits	
Local name	1-METOXIPROPÁN-2-OL
AK-érték	375 mg/m ³
CK-érték	568 mg/m ³
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m ³)	375 mg/m ³
OEL (8 hours ref) (ppm)	100 ppm
OEL (15 min ref) (mg/m ³)	568 mg/m ³
OEL (15 min ref) (ppm)	150 ppm
Italy - Occupational Exposure Limits	
Local name	Metossipropanolo-2,1-
OEL TWA	375 mg/m ³
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

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1-Methoxy-2-propanol (107-98-2)	
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-Metoxipropan-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
OEL STEL	562.5 mg/m ³
OEL STEL [ppm]	150 ppm
Spain - Occupational Exposure Limits	
Local name	1-Metoxipropan-2-ol (Éter 1-metilico de propilenglicol)
VLA-ED (mg/m ³)	375 mg/m ³
VLA-ED (ppm)	100 ppm
VLA-EC (mg/m ³)	568 mg/m ³
VLA-EC (ppm)	150 ppm
Notes	vía dérmica,VLI
Sweden - Occupational Exposure Limits	
Local name	1-Metoxi-2-propanol
Nivågränsvärde (NVG) (mg/m ³)	190 mg/m ³
Nivågränsvärde (NVG) (ppm)	50 ppm
Kortidsvärde (KTV) (mg/m ³)	300 mg/m ³

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1-Methoxy-2-propanol (107-98-2)	
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
MAK (OEL TWA) [ppm]	300 ppm
MAK Short time value [mg/m ³]	2100 mg/m ³ max. 8x5 min./Schicht (gemessen als Momentanwert)
MAK Short time value [ppm]	600 ppm max. 8x5 min./Schicht (gemessen als Momentanwert)
Belgium - Occupational Exposure Limits	
Limit value [mg/m ³]	1461 mg/m ³
Limit value [ppm]	400 ppm
Czech Republic - Occupational Exposure Limits	
Local name	Ethylacetát
Expoziční limity (PEL) (mg/m ³)	700 mg/m ³
Expoziční limity (PEL) (ppm)	191 ppm
Expoziční limity (NPK-P) (mg/m ³)	900 mg/m ³
Expoziční limity (NPK-P) (ppm)	246 ppm
Remark	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)

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Ethyl acetate (141-78-6)	
Grænseværdi (8 timer) (mg/m ³)	540 mg/m ³
Grænseværdi (8 timer) (ppm)	150 ppm
Grænseværdi (STEL) (mg/m ³)	1080 mg/m ³
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	Etyyliasettaati
HTP-arvo (8h) (mg/m ³)	730 mg/m ³
HTP-arvo (8h) (ppm)	200 ppm
HTP-arvo (15 min)	1470 mg/m ³
HTP-arvo (15 min) (ppm)	400 ppm
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveystieteiden ministeriö)
France - Occupational Exposure Limits	
Local name	Acétate d'éthyle
VME [mg/m ³]	734 mg/m ³
VME (OEL TWA) [ppm]	200 ppm
VLE [mg/m ³]	1468 mg/m ³
VLE [ppm]	400 ppm
Note (FR)	Valeurs réglementaires contraignantes
Regulatory reference	Article R4412-149 du Code du travail (réf.: INRS ED 984, 2016; Décret n° 2019-1487; 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(l)
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 (Túlérzékenységet okozó (szenzibilizáló) tulajdonságú anyag. Az anyagra érzékeny egyéneken „túlérzékenységen” alapuló bőr-, légzőrendszeri, esetleg más szervet/szervrendszert károsító megbetegedést okozhat); EU4 (2017/164 EU irányelvben közölt érték); N (Irritáló anyagok, egyszerű fojtógázok, csekély egészségkárosító hatással)

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Ethyl acetate (141-78-6)	
	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	Etiķskābes etilesteris (etilacetāts)
OEL TWA	200 mg/m ³
OEL TWA (ppm)	54 ppm
OEL STEL	1468 mg/m ³
OEL STEL [ppm]	400 ppm
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

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Ethyl acetate (141-78-6)	
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
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
Kortidsverdi (OEL STEL)	1468 mg/m ³
Kortidsverdi (OEL STEL) [ppm]	400 ppm
Remark	E: EU har en veiledende grenseverdi for stoffet.
Regulatory reference	FOR-2020-04-06-695

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Ethyl acetate (141-78-6)	
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
Regulatory reference	COMMISSION DIRECTIVE (EU) 2019/1831 COMMISSION DIRECTIVE (EU) 2019/1831
Austria - Occupational Exposure Limits	
MAK [mg/m ³]	480 mg/m ³
MAK (OEL TWA) [ppm]	100 ppm
MAK Short time value [mg/m ³]	480 mg/m ³
MAK Short time value [ppm]	100 ppm
Remark (AT)	(gemessen als Momentanwert)
Belgium - Occupational Exposure Limits	
Limit value [mg/m ³]	723 mg/m ³
Limit value [ppm]	150 ppm
Short time value [mg/m ³]	964 mg/m ³
Short time value [ppm]	200 ppm
Czech Republic - Occupational Exposure Limits	
Local name	Butylacetát isomery: n-Butyl-acetát
Expoziční limity (PEL) (mg/m ³)	950 mg/m ³
Expoziční limity (PEL) (ppm)	197 ppm
Expoziční limity (NPK-P) (mg/m ³)	1200 mg/m ³
Expoziční limity (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/m ³)	241 mg/m ³
Grænseværdi (8 timer) (ppm)	50 ppm
Grænseværdi (STEL) (mg/m ³)	1420 mg/m ³
Grænseværdi (STEL) (ppm)	300 ppm

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Butyl acetate (123-86-4)	
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-Butyyliasetaatti
HTP-arvo (8h) (mg/m ³)	240 mg/m ³
HTP-arvo (8h) (ppm)	50 ppm
HTP-arvo (15 min)	725 mg/m ³
HTP-arvo (15 min) (ppm)	150 ppm
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveystieteiden ministeriö)
France - Occupational Exposure Limits	
Local name	Acétate de n-butyle
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(l)
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

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Butyl acetate (123-86-4)	
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	
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-butilacetat
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

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Butyl acetate (123-86-4)	
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).
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2021. INSHT
Sweden - Occupational Exposure Limits	
Local name	n-Butylacetat
Nivågränsvärde (NVG) (mg/m ³)	241 mg/m ³
Nivågränsvärde (NVG) (ppm)	50 ppm
Kortidsvärde (KTV) (mg/m ³)	723 mg/m ³
Kortidsvärde (KTV) (ppm)	150 ppm
Regulatory reference	Hygieniska gränsvärden (AFS 2020:6)
Norway - Occupational Exposure Limits	
Grenseverdier (AN) (mg/m ³)	355 mg/m ³
Grenseverdier (AN) (ppm)	75 ppm
Switzerland - Occupational Exposure Limits	
VME [mg/m ³]	480 mg/m ³
MAK (ppm)	100 ppm
KZGW (mg/m ³)	960 mg/m ³ max. 8x5 min./turno
KZGW (ppm)	200 ppm max. 8x5 min./turno
2-methoxy-1-methylethyl acetate (108-65-6)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	2-Methoxy-1-methylethylacetate
IOEL TWA	275 mg/m ³
IOEL TWA [ppm]	50 ppm
IOELV STEL (mg/m ³)	550 mg/m ³
IOELV STEL (ppm)	100 ppm
Notes	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
Austria - Occupational Exposure Limits	
MAK [mg/m ³]	275 mg/m ³ (H)
MAK (OEL TWA) [ppm]	50 ppm (H)
MAK Short time value [mg/m ³]	550 mg/m ³ 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/m ³]	275 mg/m ³

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2-methoxy-1-methylethyl acetate (108-65-6)	
Limit value [ppm]	50 ppm
Short time value [mg/m ³]	550 mg/m ³
Short time value [ppm]	100 ppm
Remark (BE)	D
Czech Republic - Occupational Exposure Limits	
Local name	2-Methoxy-1-methylethylacetát
Expoziční limity (PEL) (mg/m ³)	270 mg/m ³
Expoziční limity (PEL) (ppm)	49 ppm
Expoziční limity (NPK-P) (mg/m ³)	550 mg/m ³
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/m ³)	275 mg/m ³
Grænseværdi (8 timer) (ppm)	50 ppm
Grænseværdi (STEL) (mg/m ³)	550 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-Metoksi-1-metyylietyyliasettaatti
HTP-arvo (8h) (mg/m ³)	270 mg/m ³
HTP-arvo (8h) (ppm)	50 ppm
HTP-arvo (15 min)	550 mg/m ³
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/m ³]	275 mg/m ³
VME (OEL TWA) [ppm]	50 ppm
VLE [mg/m ³]	550 mg/m ³
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)	

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2-methoxy-1-methylethyl acetate (108-65-6)	
Local name	2-Methoxy-1-methylethylacetat
Occupational exposure limit value (mg/m ³)	270 mg/m ³
Occupational exposure limit value (ppm)	50 ppm
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-PROPIIL-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

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2-methoxy-1-methylethyl acetate (108-65-6)	
	2015. gada 7. aprīlī noteikumiem Nr. 163)
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-Metoksypropán-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
VLA-EC (mg/m ³)	550 mg/m ³
VLA-EC (ppm)	100 ppm

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

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2-methoxypropyl acetate (70657-70-4)	
VLA-EC (ppm)	40 ppm
Notes	TR1B,r
2-methylpropan-1-ol (78-83-1)	
Czech Republic - Occupational Exposure Limits	
Local name	Butanol (všechny isomery)
Expoziční limity (PEL) (mg/m ³)	300 mg/m ³
Expoziční limity (PEL) (ppm)	100 ppm
Expoziční limity (NPK-P) (mg/m ³)	600 mg/m ³
Expoziční limity (NPK-P) (ppm)	200 ppm
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	
Local name	izo-Butanol
NPHV (priemerná) (mg/m ³)	310 mg/m ³
NPHV (priemerná) (ppm)	100 ppm
Slovenia - Occupational Exposure Limits	
Local name	2-metilpropan-1-ol (izobutanol)
OEL TWA	310 mg/m ³

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2-methylpropan-1-ol (78-83-1)	
OEL TWA [ppm]	100 ppm
OEL STEL	310 mg/m ³
OEL STEL [ppm]	100 ppm
Spain - Occupational Exposure Limits	
Local name	Isobutanol (Alcohol isobutílico)
VLA-ED (mg/m ³)	154 mg/m ³
VLA-ED (ppm)	50 ppm
Sweden - Occupational Exposure Limits	
Local name	iso-Butanol
Nivågränsvärde (NVG) (mg/m ³)	150 mg/m ³
Nivågränsvärde (NVG) (ppm)	50 ppm
Kortidsvärde (KTV) (mg/m ³)	250 mg/m ³
Kortidsvärde (KTV) (ppm)	75 ppm
Norway - Occupational Exposure Limits	
Local name	2-metylpropan-1-ol
Grenseverdier (AN) (mg/m ³)	75 mg/m ³
Grenseverdier (AN) (ppm)	25 ppm
Takverdi (OEL C) [1]	75 mg/m ³
Takverdi (OEL C) [2]	25 ppm
Carbon black (1333-86-4)	
Belgium - Occupational Exposure Limits	
Limit value [mg/m ³]	3.5 mg/m ³
Czech Republic - Occupational Exposure Limits	
Local name	Amorfní uhlík (Carbon Black)
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	Carbon black
Grænseværdi (8 timer) (mg/m ³)	3.5 mg/m ³
Remark	K (betyder, at stoffet anses for at kunne være kræftfremkaldende)
Regulatory reference	BEK nr 290 af 13/02/2021
Finland - Occupational Exposure Limits	
Local name	Nokimusta
HTP-arvo (8h) (mg/m ³)	3.5 mg/m ³
HTP-arvo (15 min)	7 mg/m ³
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveystieteiden ministeriö)
France - Occupational Exposure Limits	
Local name	Noir de carbone

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Carbon black (1333-86-4)	
VME [mg/m ³]	3.5 mg/m ³
Note (FR)	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Hungary - Occupational Exposure Limits	
Local name	Ipari korom [„Carbon Black”]
AK-érték	3 mg/m ³ belélegezhető koncentráció
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)	3.5 mg/m ³
OEL (15 min ref) (mg/m ³)	7 mg/m ³
Poland - Occupational Exposure Limits	
Local name	Sadza techniczna
NDS (mg/m ³)	4 mg/m ³ frakcja wdychalna
Remark	Frakcja wdychalna – frakcja aerozolu wnikaająca przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia.
Regulatory reference	Dz. U. 2018 poz. 1286
Portugal - Occupational Exposure Limits	
Local name	Carbono, preto (Negro de fumo)
OEL TWA (mg/m ³)	3 mg/m ³ I (Fração inalável)
Remark	A3 (Agente carcinogénico confirmado nos animais de laboratorio con relevância desconhecida no Homem)
Regulatory reference	Norma Portuguesa NP 1796:2014
Spain - Occupational Exposure Limits	
Local name	Negro de humo
VLA-ED (mg/m ³)	3.5 mg/m ³
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2021. INSHT
Sweden - Occupational Exposure Limits	
Local name	Kimrök
Nivågränsvärde (NVG) (mg/m ³)	3 mg/m ³
Norway - Occupational Exposure Limits	
Local name	Carbon Black (lampesot)
Grenseverdier (AN) (mg/m ³)	3.5 mg/m ³
Regulatory reference	FOR-2020-04-06-695
(2-Methoxymethylethoxy)-propanol (34590-94-8)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	(2-Methoxymethylethoxy)-propanol
IOEL TWA	308 mg/m ³
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 limity (PEL) (mg/m ³)	270 mg/m ³
Expoziční limity (PEL) (ppm)	43.7 ppm
Expoziční limity (NPK-P) (mg/m ³)	550 mg/m ³
Expoziční limity (NPK-P) (ppm)	89.1 ppm
Remark	D - při expozici se významně uplatňuje pronikání faktoru kůží.
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 41/2020 Sb.)
Denmark - Occupational Exposure Limits	
Local name	Dipropylenglycolmethylether (Methoxypropoxypropanol)
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-Metoksimetylietoksi)-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 terveystieteiden ministeriö)
France - Occupational Exposure Limits	
Local name	(2-Méthoxyméthyléthoxy)-propanol
VME [mg/m ³]	308 mg/m ³
VME (OEL TWA) [ppm]	50 ppm

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(2-Methoxymethylethoxy)-propanol (34590-94-8)	
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/m ³)	310 mg/m ³
Occupational exposure limit value (ppm)	50 ppm
Limitation of exposure peaks (mg/m ³)	310 mg/m ³
Limitation of exposure peaks (ppm)	50 ppm
Peak exposure limitation factor	1(I)
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/m ³
CK-érték	308 mg/m ³
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/m ³)	308 mg/m ³
OEL (8 hours ref) (ppm)	50 ppm
Italy - Occupational Exposure Limits	
Local name	1-(3-Methoxypropoxy)propan-1-ol
OEL TWA	308 mg/m ³
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	Metoksiropoksi propanols (dipropilēnglikola monometilēteris, DPM)
OEL TWA	308 mg/m ³
OEL TWA (ppm)	50 ppm
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

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

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(2-Methoxymethylethoxy)-propanol (34590-94-8)	
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 korttidsgränsvärde 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
MAK Short time value [mg/m ³]	3800 mg/m ³ max. 3x60 min./Schicht (gemessen als Momentanwert)
MAK Short time value [ppm]	2000 ppm max. 3x60 min./Schicht (gemessen als Momentanwert)
Belgium - Occupational Exposure Limits	
Limit value [mg/m ³]	1907 mg/m ³
Limit value [ppm]	1000 ppm
Czech Republic - Occupational Exposure Limits	
Local name	Ethanol (Ethylalkohol)
Expoziční limity (PEL) (mg/m ³)	1000 mg/m ³
Expoziční limity (PEL) (ppm)	530 ppm

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Ethanol (64-17-5)	
Expoziční limity (NPK-P) (mg/m ³)	3000 mg/m ³
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/m ³)	1900 mg/m ³
Grænseværdi (8 timer) (ppm)	1000 ppm
Grænseværdi (STEL) (mg/m ³)	3800 mg/m ³
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/m ³)	1900 mg/m ³
HTP-arvo (8h) (ppm)	1000 ppm
HTP-arvo (15 min)	2500 mg/m ³
HTP-arvo (15 min) (ppm)	1300 ppm
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveystieteiden ministeriö)
France - Occupational Exposure Limits	
Local name	Alcool éthylique
VME [mg/m ³]	1900 mg/m ³
VME (OEL TWA) [ppm]	1000 ppm
VLE [mg/m ³]	9500 mg/m ³
VLE [ppm]	5000 ppm
Note (FR)	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	Ethanol
Occupational exposure limit value (mg/m ³)	960 mg/m ³
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)

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Ethanol (64-17-5)	
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	
Local name	Etanol (Álcool etílico)
OEL STEL [ppm]	1000 ppm
Remark	A3 (Agente carcinogénico confirmado nos animais de laboratorio 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	

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Ethanol (64-17-5)	
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 korttidsgränsvärde ska användas som ett rekommenderat högsta värde som inte bör överskridas)
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
Norway - Occupational Exposure Limits	
Local name	Etanol
Grenseverdier (AN) (mg/m ³)	950 mg/m ³
Grenseverdier (AN) (ppm)	500 ppm
Regulatory reference	FOR-2020-04-06-695
Switzerland - Occupational Exposure Limits	
VME [mg/m ³]	960 mg/m ³
MAK (ppm)	500 ppm
KZGW (mg/m ³)	1920 mg/m ³
KZGW (ppm)	1000 ppm
Isopropanol (67-63-0)	
Austria - Occupational Exposure Limits	
MAK [mg/m ³]	500 mg/m ³
MAK (OEL TWA) [ppm]	200 ppm
MAK Short time value [mg/m ³]	2000 mg/m ³ max. 4x15 min./Schicht

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Isopropanol (67-63-0)	
MAK Short time value [ppm]	800 ppm max. 4x15 min./Schicht
Belgium - Occupational Exposure Limits	
Limit value [mg/m ³]	500 mg/m ³
Limit value [ppm]	200 ppm
Short time value [mg/m ³]	1000 mg/m ³
Short time value [ppm]	400 ppm
Czech Republic - Occupational Exposure Limits	
Local name	2-Propanol (Isopropanol; Izopropylalkohol)
Expoziční limity (PEL) (mg/m ³)	500 mg/m ³
Expoziční limity (PEL) (ppm)	200 ppm
Expoziční limity (NPK-P) (mg/m ³)	1000 mg/m ³
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/m ³)	490 mg/m ³
Grænseværdi (8 timer) (ppm)	200 ppm
Grænseværdi (STEL) (mg/m ³)	980 mg/m ³
Grænseværdi (STEL) (ppm)	400 ppm
Regulatory reference	BEK nr 290 af 13/02/2021
Finland - Occupational Exposure Limits	
Local name	2-Propanoli
HTP-arvo (8h) (mg/m ³)	500 mg/m ³
HTP-arvo (8h) (ppm)	200 ppm
HTP-arvo (15 min)	620 mg/m ³
HTP-arvo (15 min) (ppm)	250 ppm
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveystieteiden ministeriö)
France - Occupational Exposure Limits	
Local name	Alcool isopropylique
VLE [mg/m ³]	980 mg/m ³
VLE [ppm]	400 ppm
Note (FR)	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	Propan-2-ol
Occupational exposure limit value (mg/m ³)	500 mg/m ³
Occupational exposure limit value (ppm)	200 ppm
Peak exposure limitation factor	2(II)

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Isopropanol (67-63-0)	
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/m ³
CK-érték	1000 mg/m ³
Remark	b (Bőrön át is felszívódik), i (ingerlő anyag, amely irritálja a bőrt, nyálkahártyát, szemet vagy mindhármát); R (Azok az anyagok, amelyek egészségkárosító hatása RÖVID expozíció hatására jelentkezik)
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
Hungary - Biological 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 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 noteikumi Nr. 325 (Grozījumi Ministru kabineta 2011. gada 1. februārī noteikumi Nr. 92)
Lithuania - Occupational Exposure Limits	
IPRV (mg/m ³)	350 mg/m ³
IPRV (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

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Isopropanol (67-63-0)	
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
Slovakia - Occupational Exposure Limits	
Local name	Izopropylalkohol (propán-2-ol)
NPHV (priemerná) (mg/m ³)	500 mg/m ³
NPHV (priemerná) (ppm)	200 ppm
NPHV (OEL STEL)	1000 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	propan-2-ol (izopropilalkohol; izopropanol)
OEL TWA	500 mg/m ³
OEL TWA [ppm]	200 ppm
OEL STEL	1000 mg/m ³
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: acetone - Biološki vzorec: kri - Čas vzorčenja: ob koncu delovne izmene 25 mg/l Parameter: acetone - Biološki vzorec: urin - Čas vzorčenja: ob koncu delovne izmene

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Isopropanol (67-63-0)	
Regulatory reference	Uradni list RS, št. 78/2018 z dne 4.12.2018
Spain - Occupational Exposure Limits	
Local name	Isopropanol (Alcohol isopropílico)
VLA-ED (mg/m ³)	500 mg/m ³
VLA-ED (ppm)	200 ppm
VLA-EC (mg/m ³)	1000 mg/m ³
VLA-EC (ppm)	400 ppm
Notes	VLB® (Agente químico que tiene Valor Límite Biológico), s (Esta sustancia tiene prohibida total o parcialmente su comercialización y uso como fitosanitario y/o como biocida. Para una información detallada acerca de las prohibiciones consúltese: Base de datos de productos biocidas: http://www.msssi.gob.es/ciudadanos/productos.do?tipo=plaguicidas Base de datos de productos fitosanitarios http://www.magrama.gob.es/agricultura/pags/fitos/registro/fichas/pdf/Lista_sa.pdf).
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 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 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/m ³)	350 mg/m ³
Nivågränsvärde (NVG) (ppm)	150 ppm
Kortidsvärde (KTV) (mg/m ³)	600 mg/m ³
Kortidsvärde (KTV) (ppm)	250 ppm
Remark	V (Vägledande korttidsgränsvärde 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/m ³)	245 mg/m ³
Grenseverdier (AN) (ppm)	100 ppm
Regulatory reference	FOR-2020-04-06-695
Switzerland - Occupational Exposure Limits	
VME [mg/m ³]	500 mg/m ³
MAK (ppm)	200 ppm 25 ppm acetone (urina; fine dell'esposizione / del turno) 25 ppm acetone (sangue; fine dell'esposizione / del turno)
KZGW (mg/m ³)	1000 mg/m ³ max. 4x15 min./turno
KZGW (ppm)	400 ppm max. 4x15 min./turno

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propyl acetate (109-60-4)	
Austria - Occupational Exposure Limits	
Remark (AT)	(gemessen als Momentanwert)
Czech Republic - Occupational Exposure Limits	
Local name	n-Propylacetát
Expoziční limity (PEL) (mg/m ³)	800 mg/m ³
Expoziční limity (PEL) (ppm)	190 ppm
Expoziční limity (NPK-P) (mg/m ³)	1000 mg/m ³
Expoziční limity (NPK-P) (ppm)	240 ppm
Denmark - Occupational Exposure Limits	
Local name	n-Propylacetat
Grænseværdi (8 timer) (mg/m ³)	625 mg/m ³
Grænseværdi (8 timer) (ppm)	150 ppm
Grænseværdi (STEL) (mg/m ³)	1250 mg/m ³
Grænseværdi (STEL) (ppm)	300 ppm
Finland - Occupational Exposure Limits	
Local name	1-Propyyliasettaatti
HTP-arvo (8h) (mg/m ³)	420 mg/m ³
HTP-arvo (8h) (ppm)	100 ppm
HTP-arvo (15 min)	850 mg/m ³
HTP-arvo (15 min) (ppm)	200 ppm
France - Occupational Exposure Limits	
Local name	Acétate de n-propyle
VME [mg/m ³]	840 mg/m ³
VME (OEL TWA) [ppm]	200 ppm
Note (FR)	Valeurs recommandées/admises
Hungary - Occupational Exposure Limits	
Local name	PROPIL-ACETÁT
AK-érték	840 mg/m ³
CK-érték	840 mg/m ³
Latvia - Occupational Exposure Limits	
Local name	Propilacetāts (etiķskābespropilesteris)
OEL TWA	200 mg/m ³
Poland - Occupational Exposure Limits	
Local name	Octan propylu
NDS (mg/m ³)	200 mg/m ³
NDSch (mg/m ³)	400 mg/m ³
Portugal - Occupational Exposure Limits	
Local name	Acetato de n-propilo
OEL TWA [ppm]	200 ppm

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propyl acetate (109-60-4)	
OEL STEL [ppm]	250 ppm
Slovakia - Occupational Exposure Limits	
Local name	Propylacetát (octan propylový)
NPHV (priemerná) (mg/m ³)	400 mg/m ³
NPHV (priemerná) (ppm)	100 ppm
NPHV (OEL STEL)	800 mg/m ³
NPHV (OEL STEL) [ppm]	200 ppm
Slovenia - Occupational Exposure Limits	
Local name	propilacetat
OEL TWA	420 mg/m ³
OEL TWA [ppm]	100 ppm
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
Toluene (108-88-3)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Toluene
IOEL TWA	192 mg/m ³
IOEL TWA [ppm]	50 ppm
IOELV STEL (mg/m ³)	384 mg/m ³ 384 mg/m ³
IOELV STEL (ppm)	100 ppm 100 ppm
Notes	Skin Skin

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Toluene (108-88-3)	
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC COMMISSION DIRECTIVE 2006/15/EC
Austria - Occupational Exposure Limits	
MAK [mg/m ³]	190 mg/m ³ (H,d)
MAK (OEL TWA) [ppm]	50 ppm (H,d)
MAK Short time value [mg/m ³]	380 mg/m ³ max. 4x15 min./Schicht, (H,d)
MAK Short time value [ppm]	100 ppm max. 4x15 min./Schicht, (H,d)
Belgium - Occupational Exposure Limits	
Limit value [mg/m ³]	77 mg/m ³
Limit value [ppm]	20 ppm
Short time value [mg/m ³]	384 mg/m ³
Short time value [ppm]	100 ppm
Remark (BE)	D
Czech Republic - Occupational Exposure Limits	
Local name	Toluen (Methylbenzen)
Expoziční limity (PEL) (mg/m ³)	192 mg/m ³
Expoziční limity (PEL) (ppm)	50 ppm
Expoziční limity (NPK-P) (mg/m ³)	384 mg/m ³
Expoziční limity (NPK-P) (ppm)	100 ppm
Remark	B - u látky je zaveden biologický expoziční test (BET) v moči nebo krvi, D - při expozici se významně uplatňuje pronikání faktoru kůží, I - dráždí sliznice (oči, dýchací cesty), respektive kůži.
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 41/2020 Sb.)
Czech Republic - Biological limit values	
Local name	Toluen (Methylbenzen)
BLV	1.5 mg/g creatinine Ukazatel: o-Kresol (po hydrolýze) - Biološki uzorak: moči - Doba odběru: konec směny 1.6 µmol/mmol Creatinine Ukazatel: o-Kresol (po hydrolýze) - Biološki uzorak: moči - Doba odběru: konec směny 1600 mg/g creatinine Ukazatel: Hippurová kyselina - Biološki uzorak: moči - Doba odběru: konec směny 1000 µmol/mmol Creatinine Ukazatel: Hippurová kyselina - Biološki uzorak: moči - Doba odběru: konec směny
Remark	Je-li hodnota při nálezů kyseliny hippurové vyšší než 1600 mg/g, avšak nepřesahuje 2 500 mg/g kreatininu, použije se ke zpřesnění expozice toluenu biologický expoziční test podle ukazatele o-Kresol. Je-li hodnota při nálezů kyseliny hippurové vyšší než 2500 mg/g, považuje se za hodnotu prokazující, že jde o pracovní expozici toluenu, jehož hodnota PEL je překračována a biologický expoziční test podle ukazatele o-Kresol se již neprovádí.
Regulatory reference	Vyhláška č. 107/2013 Sb. (kterou se mění vyhláška č. 432/2003 Sb.)
Denmark - Occupational Exposure Limits	
Local name	Toluen (Methylbenzen; Phenylmethan)
Grænseværdi (8 timer) (mg/m ³)	94 mg/m ³
Grænseværdi (8 timer) (ppm)	25 ppm

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Toluene (108-88-3)	
Grænseværdi (STEL) (mg/m ³)	188 mg/m ³
Grænseværdi (STEL) (ppm)	50 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	Tolueeni
HTP-arvo (8h) (mg/m ³)	81 mg/m ³
HTP-arvo (8h) (ppm)	25 ppm
HTP-arvo (15 min)	380 mg/m ³
HTP-arvo (15 min) (ppm)	100 ppm
Remark	lho, melu
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveystministeriö)
Finland - Biological limit values	
Local name	Tolueeni
BLV	500 nmol/l Parametri: Veren tolueeni - Näytteenottoajankohta: Työpäivän jälkeinen aamu
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveystministeriö)
France - Occupational Exposure Limits	
Local name	Toluène
VME [mg/m ³]	76.8 mg/m ³
VME (OEL TWA) [ppm]	20 ppm
VLE [mg/m ³]	384 mg/m ³
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	Toluol
Occupational exposure limit value (mg/m ³)	190 mg/m ³
Occupational exposure limit value (ppm)	50 ppm
Peak exposure limitation factor	4(II)
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); H - hautresorptiv; 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	3 mg/l o-Kresol (Urin; bei Langzeitexposition/Expositionsende bzw. Schichtende) 1 mg/l Toluol (Blut; Expositionsende bzw. Schichtende)
Hungary - Occupational Exposure Limits	

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Toluene (108-88-3)	
Local name	TOLUOL
AK-érték	190 mg/m ³
CK-érték	380 mg/m ³
Remark	b (Bőrön át is felszívódik), i (ingerlő anyag, amely izgatja a bőrt, nyálkahártyát, szemet vagy mindhámat); BEM (biológiai expozíciós mutató); EU2 (2006/15/EK irányelvben közölt érték); R+T (Azok az anyagok, amelyek RÖVID és TARTÓS expozíciója is egészségkárosodást okoz)
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
Hungary - Biological Exposure Indices	
Local name	Toluol
BEI	1 mg/g creatinine Biológiai expozíciós (hatás) mutató: o-krezol - Biológiai minta: vizeletben - Mintavétel ideje: m.v. (műszak végén) 1 µmol/mmol Creatinine Biológiai expozíciós (hatás) mutató: o-krezol - Biológiai minta: vizeletben - Mintavétel ideje: m.v. (műszak végén)
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m ³)	192 mg/m ³
OEL (8 hours ref) (ppm)	50 ppm
OEL (15 min ref) (mg/m ³)	384 mg/m ³
OEL (15 min ref) (ppm)	100 ppm
Italy - Occupational Exposure Limits	
Local name	Toluene
OEL TWA	192 mg/m ³
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	Toluols (metilbenzols)
OEL TWA	50 mg/m ³
OEL TWA (ppm)	14 ppm
OEL STEL	150 mg/m ³
OEL STEL [ppm]	40 ppm
Remark	Āda, letekme uz dzirdi
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumi Nr. 325 (Grozījumi Ministru kabineta 2015. gada 7. aprīlī noteikumi Nr. 163)
Latvia - Biological Exposure Indices	
Local name	Toluolam
BEI	1.6 g/g creatinine Urīnā maiņas beigās nosaka hipurskābi 0.05 mg/l Toluolu asinīs
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumi Nr. 325 (Grozījumi Ministru kabineta 2021. gada 18. februārī noteikumi Nr. 110)

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Toluene (108-88-3)	
Lithuania - Occupational Exposure Limits	
IPRV (mg/m ³)	192 mg/m ³
IPRV (OEL TWA) [ppm]	50 ppm
TPRV (mg/m ³)	384 mg/m ³
TPRV (ppm)	100 ppm
Netherlands - Occupational Exposure Limits	
Local name	Tolueen
Grenswaarde TGG 8H (mg/m ³)	150 mg/m ³
Grenswaarde TGG 15MIN (mg/m ³)	384 mg/m ³
Regulatory reference	Arbeidsomstandighedenregeling 2021
Poland - Occupational Exposure Limits	
Local name	Toluen
NDS (mg/m ³)	100 mg/m ³
NDSch (mg/m ³)	200 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	Tolueno
OEL TWA [ppm]	20 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	Tolueno
BEI	0.02 mg/l Parâmetro: Tolueno - Meio: sangue - Momento da amostragem: Antes do último turno da semana de trabalho 0.03 mg/l Parâmetro: Tolueno - Meio: urina - Momento da amostragem: Fim do turno 0.3 mg/g creatinine Parâmetro: o-Cresol - Meio: urina - Momento da amostragem: Fim do turno - Notação: Vb (Valor basal), Com hidrólise
Regulatory reference	Norma Portuguesa NP 1796:2014
Slovakia - Occupational Exposure Limits	
Local name	Toluén
NPHV (priemerná) (mg/m ³)	192 mg/m ³
NPHV (priemerná) (ppm)	50 ppm
NPHV (OEL STEL)	384 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.)
Slovakia - Biological limit values	
Local name	Toluén

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Toluene (108-88-3)	
BLV	600 µg/l Zisťovaný faktor: Toluén - Vyšetrovaný materiál: krv - Čas odberu vzorky: b) koniec expozície alebo pracovnej zmeny 1.5 mg/l Zisťovaný faktor: O-krezol - Vyšetrovaný materiál: moč - Čas odberu vzorky: c) pri dlhodobej expozícii; po viacerých pracovných zmenách, b) koniec expozície alebo pracovnej zmeny 2401 mg/l Zisťovaný faktor: Kyselina hippurová - Vyšetrovaný materiál: moč - Čas odberu vzorky: b) koniec expozície alebo pracovnej zmeny 1600 mg/g creatinine Zisťovaný faktor: Kyselina hippurová - Vyšetrovaný materiál: moč - Čas odberu vzorky: b) koniec expozície alebo pracovnej zmeny
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (Zmena: 471/2011 Z.z.)
Slovenia - Occupational Exposure Limits	
Local name	toluen
OEL TWA	192 mg/m ³
OEL TWA [ppm]	50 ppm
OEL STEL	384 mg/m ³
OEL STEL [ppm]	100 ppm
Remark	K (Lastnosť lažjega prehajanja snovi v organizem skozi kožo), Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti), BAT (Biolóška mejna vrednost), EU
Regulatory reference	Uradni list RS, št. 78/2019 z dne 20.12.2019
Slovenia - Biological limit values	
Local name	toluen
BLV	600 µg/l Parameter: toluen - Biološki vzorec: kri - Čas vzorčenja: ob koncu delovne izmene 1.5 mg/l Parameter: o-krezol (po hidrolizi) - Biološki vzorec: urin - Čas vzorčenja: ob koncu delovne izmene, pri dolgotrajni izpostavljenosti: ob koncu delovne izmene po več zaporednih delavnikih
Regulatory reference	Uradni list RS, št. 78/2018 z dne 4.12.2018
Spain - Occupational Exposure Limits	
Local name	Tolueno
VLA-ED (mg/m ³)	192 mg/m ³
VLA-ED (ppm)	50 ppm
VLA-EC (mg/m ³)	384 mg/m ³
VLA-EC (ppm)	100 ppm
Notes	Vía dérmica (Indica que, en las exposiciones a esta sustancia, la aportación por la vía cutánea puede resultar significativa para el contenido corporal total si no se adoptan medidas para prevenir la absorción. En estas situaciones, es aconsejable la utilización del control biológico para poder cuantificar la cantidad global absorbida del contaminante), VLB® (Agente químico que tiene Valor Límite Biológico), VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo), r (Esta sustancia tiene establecidas restricciones a la fabricación, la comercialización o el uso en los términos especificados en el "Reglamento (CE) nº 1907/2006 sobre Registro, Evaluación, Autorización y Restricción de sustancias y preparados químicos" (REACH) de 18 de diciembre de 2006 (DOUE L 369 de 30 de diciembre de 2006). Las restricciones de una sustancia pueden aplicarse a todos los usos o sólo a usos concretos. El anexo XVII del Reglamento REACH contiene la lista de todas las sustancias restringidas y especifica los usos que se han restringido).
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2021. INSHT

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Toluene (108-88-3)	
Spain - Biological limit values	
Local name	Tolueno
BLV	0.6 mg/l Parámetro: o-Cresol - Medio: Orina - Momento de muestreo: Final de la jornada laboral - Notas: F (Fondo. El indicador está generalmente presente en cantidades detectables en personas no expuestas laboralmente. Estos niveles de fondo están considerados en el valor VLB) 0.05 mg/l Parámetro: Tolueno - Medio: Sangre - Momento de muestreo: Principio de la última jornada de la semana laboral 0.08 mg/l Parámetro: Tolueno - Medio: orina - Momento de muestreo: Final de la jornada laboral
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2021. INSHT
Sweden - Occupational Exposure Limits	
Local name	Toluen
Nivågränsvärde (NVG) (mg/m ³)	192 mg/m ³
Nivågränsvärde (NVG) (ppm)	50 ppm
Kortidsvärde (KTV) (mg/m ³)	384 mg/m ³
Kortidsvärde (KTV) (ppm)	100 ppm
Remark	B (Ämnet kan orsaka hörselskada. Exponering för ämnet nära det befintliga yrkeshygieniska gränsvärdet och vid samtidig exponering för buller nära insatsvärdet 80 dB kan orsaka hörselskada); H (Ämnet kan lätt upptas genom huden. Det föreskrivna gränsvärdet bedöms ge tillräckligt skydd endast under förutsättning att huden är skyddad mot exponering för ämnet ifråga)
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
Norway - Occupational Exposure Limits	
Local name	Toluen
Grenseverdier (AN) (mg/m ³)	94 mg/m ³
Grenseverdier (AN) (ppm)	25 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]	190 mg/m ³
MAK (ppm)	50 ppm 0.6 ppm toluolo (sangue; fine dell'esposizione / del turno) 0.5 ppm o-cresolo (urina; in caso di esposizione per molto tempo/fine dell'esposizione / del turno)
KZGW (mg/m ³)	760 mg/m ³ max. 4x15 min./turno
KZGW (ppm)	200 ppm max. 4x15 min./turno
Aluminum oxide (1344-28-1)	
Austria - Occupational Exposure Limits	
MAK [mg/m ³]	10 mg/m ³ (gemessen als einatembarer Aerosolanteil) 5 mg/m ³ (alveolengängiger Anteil)
MAK Short time value [mg/m ³]	20 mg/m ³ (gemessen als einatembarer Aerosolanteil) max. 2x60 min./Schicht 10 mg/m ³ (alveolengängiger Anteil) max. 2x60 min./Schicht
Belgium - Occupational Exposure Limits	

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Aluminum oxide (1344-28-1)	
Limit value [mg/m ³]	10 mg/m ³
Remark (BE)	(oxyde d') (en Al)
Denmark - Occupational Exposure Limits	
Local name	Aluminiumoxid
Grænseværdi (8 timer) (mg/m ³)	5 mg/m ³ beregnet som Al, total 2 mg/m ³ beregnet som Al, respirabel
Grænseværdi (STEL) (mg/m ³)	10 mg/m ³ (total) 4 mg/m ³ (respirabel)
Regulatory reference	BEK nr 290 af 13/02/2021
France - Occupational Exposure Limits	
Local name	Aluminium (Trioxyde de di-)
VME [mg/m ³]	10 mg/m ³
Note (FR)	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Germany - Occupational Exposure Limits (TRGS 900)	
Occupational exposure limit value (mg/m ³)	3 mg/m ³
Remark	(gemessen als alveolengängiger Staubanteil)
Hungary - Occupational Exposure Limits	
Local name	ALUMÍNIUM OXID (Al-ra számítva)
AK-érték	5 mg/m ³ 2 mg/m ³ respirabilis 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/m ³)	10 mg/m ³ (total inhalable dust) 4 mg/m ³ (respirable dust)
Latvia - Occupational Exposure Limits	
Local name	Alumīnija oksīds
OEL TWA	6 mg/m ³ dezintegrācijas aerosola veidā 4 mg/m ³ maisījumā ar niķeli (līdz 15%), (elektrokorunds)
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2011. gada 1. februārī noteikumiem Nr. 92)
Lithuania - Occupational Exposure Limits	
IPRV (mg/m ³)	2 mg/m ³
Poland - Occupational Exposure Limits	
Local name	Tritlenek glinu
NDS (mg/m ³)	2.5 mg/m ³ w przeliczeniu na Al: frakcja wdychalna 1.2 mg/m ³ w przeliczeniu na Al: frakcja respirabilna
Remark	Frakcja wdychalna – frakcja aerozolu wnika jąca przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia. Frakcja respirabilna – frakcja aerozolu wnika jąca do dróg oddechowych, która stwarza zagrożenie dla zdrowia po zdeponowaniu w obszarze wymiany gazowej.

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Aluminum oxide (1344-28-1)	
Regulatory reference	Dz. U. 2018 poz. 1286
Slovakia - Occupational Exposure Limits	
Local name	Oxid hlinitý
NPHV (priemerná) (mg/m ³)	4 mg/m ³ inhalovateľná frakcia – prach 1.5 mg/m ³ respirabilná frakcia – prach
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (236/2020 Z. z.)
Spain - Occupational Exposure Limits	
Local name	Óxido de aluminio (Corindón)
VLA-ED (mg/m ³)	10 mg/m ³
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2021. INSHT
Sweden - Occupational Exposure Limits	
Nivågränsvärde (NVG) (mg/m ³)	5 mg/m ³ (inhalable aerosol) 2 mg/m ³ (respirable aerosol)
Norway - Occupational Exposure Limits	
Local name	Aluminiumoksid
Grønseverdier (AN) (mg/m ³)	10 mg/m ³
Remark	1) Grønseverdien er fastsatt lik verdien for sjenerende støv.
Regulatory reference	FOR-2020-04-06-695
Switzerland - Occupational Exposure Limits	
VME [mg/m ³]	3 mg/m ³
Remark	(respirable aerosol)
Aluminum hydroxide (21645-51-2)	
Austria - Occupational Exposure Limits	
MAK (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/m ³
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2011. gada 1. februārī noteikumiem Nr. 92)
Lithuania - Occupational Exposure Limits	
IPRV (mg/m ³)	6 mg/m ³
Poland - Occupational Exposure Limits	
Local name	Wodorotlenek glinu
NDS (mg/m ³)	2.5 mg/m ³ w przeliczeniu na Al: frakcja wdychalna 1.2 mg/m ³ w przeliczeniu na Al: frakcja respirabilna
Remark	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.

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Aluminum hydroxide (21645-51-2)	
Regulatory reference	Dz. U. 2018 poz. 1286
Slovakia - Occupational Exposure Limits	
Local name	Hydroxid hlinitý
NPHV (priemerná) (mg/m ³)	4 mg/m ³ inhalovateľná frakcia – prach 1.5 mg/m ³ respirabilná frakcia – prach
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (236/2020 Z. z.)
Switzerland - Occupational Exposure Limits	
VME [mg/m ³]	3 mg/m ³
Remark	(alveolengängige Fraktion)
Silicon dioxide (amorphous) (112926-00-8)	
Austria - Occupational Exposure Limits	
MAK [mg/m ³]	4 mg/m ³
Remark (AT)	(einatembare Fraktion)
Czech Republic - Occupational Exposure Limits	
Local name	Amorfní SiO ₂
Expoziční limity (PEL) (mg/m ³)	4 mg/m ³
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/m ³)	5 mg/m ³
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	Kieselsäuren, amorphe
Occupational exposure limit value (mg/m ³)	4 mg/m ³
Remark	(einatembare Fraktion)
Regulatory reference	TRGS900
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m ³)	2.4 mg/m ³ 6 mg/m ³ (total inhalable dust)
Latvia - Occupational Exposure Limits	
Local name	Silīcija dioksīds
OEL TWA	1 mg/m ³
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2020. gada 7. janvārī noteikumiem Nr. 11)
Slovenia - Occupational Exposure Limits	
Local name	silikagel
OEL TWA	4 mg/m ³
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	

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Silicon dioxide (amorphous) (112926-00-8)	
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 jednoczesne oznaczanie stężeń frakcji respirabilnej krzemionki krystalicznej.
Regulatory reference	Dz. U. 2018 poz. 1286
Portugal - Occupational Exposure Limits	

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Titanium dioxide (13463-67-7)	
Local name	Dióxido de titânio
OEL TWA (mg/m ³)	10 mg/m ³
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/m ³)	5 mg/m ³
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/m ³)	10 mg/m ³
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/m ³)	5 mg/m ³ 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, Arbetskyddsstyrelsen, numera Arbetsmiljöverket. Filterdiametern är normalt 37 mm, men kan även vara 25 mm. Trots sitt namn provtas inte den totala mängden luftburna partiklar med denna metod)
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
Norway - Occupational Exposure Limits	
Local name	Titandioksid
Grenseverdier (AN) (mg/m ³)	5 mg/m ³
Regulatory reference	FOR-2020-04-06-695
Switzerland - Occupational Exposure Limits	
VME [mg/m ³]	3 mg/m ³
Remark	(respirable aerosol)

8.1.2. 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.

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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.
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

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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)
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

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2-methylpropan-1-ol (78-83-1)	
LC50 Inhalation rat	24.6 mg/l/4h
Carbon black (1333-86-4)	
LD50 Oral rat	> 8000 mg/kg
LC50 Inhalation rat	> 4.6 mg/m ³ 4 h
(2-Methoxymethylethoxy)-propanol (34590-94-8)	
LD50 Oral rat	> 5000 mg/kg
LD50 Dermal rat	> 19020 mg/kg
LC50 Inhalation rat	> 1667 mg/l/4h
LC50 Inhalation rat (dust/mist)	> 1667 mg/l/4h
Ethanol (64-17-5)	
LD50 Oral rat	10470 mg/kg
LD50 Dermal rabbit	> 20000 mg/kg
LC50 Inhalation rat	133.8 mg/l/4h
Isopropanol (67-63-0)	
LD50 Oral rat	5840 mg/kg
LD50 Dermal rabbit	16.4 ml/kg
LC50 Inhalation rat [ppm]	> 10000 ppm/4h
propyl acetate (109-60-4)	
LD50 Oral rat	8700 mg/kg
LD50 Dermal rabbit	> 17800 mg/kg
LC50 Inhalation rat	32 mg/l/4h
Toluene (108-88-3)	
LD50 Oral rat	5580 mg/kg EU Method B.
LC50 Inhalation rat	> 20 mg/l/4h OECD Guideline 403
Aluminum oxide (1344-28-1)	
LD50 Oral rat	> 15900 mg/kg
LC50 Inhalation rat	7.6 mg/l/4h
Silicon dioxide (amorphous) (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

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

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Carbon black (1333-86-4)	
IARC group	2B - Possibly carcinogenic to humans, Inhalation of dust
Ethanol (64-17-5)	
IARC group	1 - Carcinogenic to humans, Alcoholic beverages
Isopropanol (67-63-0)	
IARC group	3 - Not classifiable
Toluene (108-88-3)	
IARC group	3 - Not classifiable
Silicon dioxide (amorphous) (112926-00-8)	
IARC group	3 - Not classifiable
Titanium dioxide (13463-67-7)	
IARC group	2B - Possibly carcinogenic to humans
Titanium dioxide (13463-67-7)	
NOAEL (chronic, oral, animal/male, 2 years)	5 mg/kg bodyweight rat
Additional information	Carcinogen, cat 1A or 1B. Inhalation of dust
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
Ethyl acetate (141-78-6)	
NOAEL (animal/male, F0/P)	26400 mg/kg
NOAEL (animal/female, F0/P)	26400 mg/kg
STOT-single exposure	: May cause drowsiness or dizziness.
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.
Toluene (108-88-3)	
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

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Ethyl acetate (141-78-6)	
NOAEL (subchronic, oral, animal/female, 90 days)	900 mg/kg bodyweight
Toluene (108-88-3)	
LOAEC (inhalation, rat, gas, 90 days)	1250 ppmv/6h/day
NOAEL (oral, rat, 90 days)	625 mg/kg bodyweight/day EU Method B.26.
NOAEC (inhalation, rat, gas, 90 days)	300 ppmv/6h/day OECD Guideline 453
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

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

11.2. Information on other hazards

No data available

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

(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

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propyl acetate (109-60-4)	
EC50 crustacea	91.5 mg/l 48 h
Toluene (108-88-3)	
LC50 fish 1	5.5 mg/l
EC50 - Crustacea [2]	3.78 mg/l
ErC50 algae	134 mg/l
LOEC (chronic)	2.77 mg/l
NOEC chronic fish	1.39 mg/l
NOEC chronic crustacea	0.74 mg/l
Aluminum oxide (1344-28-1)	
EC50 crustacea	1470 mg/l
NOEC (acute)	50 mg/l
Silicon dioxide (amorphous) (112926-00-8)	
LC50 fish 1	> 10000 mg/l
EC50 crustacea	> 1000 mg/l

12.2. Persistence and degradability

Paint-Riter™ Valve Action Paint Marker Black, Purple	
Persistence and degradability	Not established.
1-Methoxy-2-propanol (107-98-2)	
Persistence and degradability	Readily biodegradable.
Biodegradation	96 % 28 d
Ethyl acetate (141-78-6)	
Persistence and degradability	Readily biodegradable.
2-methoxy-1-methylethyl acetate (108-65-6)	
Persistence and degradability	Readily biodegradable.
Biodegradation	89 % 10 d
2-methylpropan-1-ol (78-83-1)	
Biodegradation	70 (70 – 80) % 28 d
Carbon black (1333-86-4)	
Persistence and degradability	Not readily biodegradable.
(2-Methoxymethylethoxy)-propanol (34590-94-8)	
Persistence and degradability	Readily biodegradable.
Ethanol (64-17-5)	
Biodegradation	> 96 % 28 d
Isopropanol (67-63-0)	
Persistence and degradability	Readily biodegradable.
propyl acetate (109-60-4)	
Persistence and degradability	Readily biodegradable.
Biodegradation	62 % 5 d

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Toluene (108-88-3)

Persistence and degradability	Readily biodegradable.
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Silicon dioxide (amorphous) (112926-00-8)

Persistence and degradability	Product persists.
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12.3. Bioaccumulative potential

Paint-Riter™ Valve Action Paint Marker Black, Purple

Log Pow	0.7
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Bioaccumulative potential	Not established.
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1-Methoxy-2-propanol (107-98-2)

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

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

Log Pow	0.43
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2-methylpropan-1-ol (78-83-1)

Log Pow	0.76
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Ethanol (64-17-5)

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

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

Log Pow	1.23
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Toluene (108-88-3)

Bioconcentration factor (BCF REACH)	90
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Log Kow	2.73
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12.4. Mobility in soil

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Ecology - soil	No 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

Component

Toluene (108-88-3)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
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12.6. Endocrine disrupting properties

No data available

12.7. Other adverse effects

Additional information : No data available

SECTION 13: Disposal considerations

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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. HP4 - "Irritant — skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye.

SECTION 14: Transport information

In accordance with ADR / 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
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

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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

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

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Orange plates : 

Tunnel restriction code (ADR) : D/E

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

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

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EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
3(a)	Paint-Riter™ Valve Action Paint Marker Black, Purple ; 1-Methoxy-2-propanol ; Ethyl acetate ; Butyl acetate ; 2-methoxy-1-methylethyl acetate ; 2-methoxypropyl acetate ; 2-methylpropan-1-ol ; Ethanol ; Isopropanol ; propyl acetate ; Toluene	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 Black, Purple ; 1-Methoxy-2-propanol ; Ethyl acetate ; Butyl acetate ; 2-methoxypropyl acetate ; 2-methylpropan-1-ol ; Isopropanol ; propyl acetate ; Toluene	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
3(c)	Toluene	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1
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 Action Paint Marker Black, Purple ; 1-Methoxy-2-propanol ; Ethyl acetate ; Butyl acetate ; 2-methoxy-1-methylethyl acetate ; 2-methoxypropyl acetate ; 2-methylpropan-1-ol ; Ethanol ; Isopropanol ; propyl acetate ; Toluene	Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.
48.	Toluene	Toluene

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

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

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

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 4 BIS	Gastrointestinal disorders caused by benzene, toluene, xylenes and all products containing them

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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(4) - low hazard 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, Toluene are listed

Denmark

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

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

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Abbreviations and acronyms:

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:

	Purple.
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Aquatic Chronic 4	Hazardous to the aquatic environment — Chronic Hazard, Category 4
Asp. Tox. 1	Aspiration hazard, Category 1
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
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H360D	May damage the unborn child.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
Repr. 1B	Reproductive toxicity, Category 1B
Repr. 2	Reproductive toxicity, Category 2

Paint-Riter™ Valve Action Paint Marker Black, Purple

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:	
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1B	Skin sensitisation, category 1B
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Flam. Liq. 2	H225	On basis of test data
Eye Irrit. 2	H319	Calculation method
Skin Sens. 1B	H317	Calculation method
STOT SE 3	H336	Calculation method

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.