

**Safety Data Sheet**

according to Regulation (EU) 2015/830

Issue date: 6/1/2020 Version: 1.0

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product form : Mixture  
 Trade name : Paint-Riter™ + Aerospace Black  
 Other means of identification : UFI: KEQX-H4UX-4SK5-FRMN

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

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

**1.2.2. Uses advised against**

Restrictions on use : No additional information available

**1.3. Details of the supplier of the safety data sheet**

LA-CO Industries Europe S.A.S.

Parc Industriel de la Plaine de

l'Ain - Allée des Combes.

01150.BLYES.France.

Phone: +33 (0)4 74 46 23 23

Fax: +33 (0)4 74 46 23 29

E-mail: info@eu.laco.com

Web: http://www.markal.com

**1.4. Emergency telephone number**

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



EU Member State	Officieel adviesorgaan	Adres	Noodnummer
AUSTRIA	Vergiftungsinformationszentrale (Poisons Information Centre)	Allgemeines Krankenhaus Waehringer Geurtel 18-20 1090 Wien	+43 1 406 43 43
BELARUS	The Belarus Republican Poisons Centre	Kizhevatova str. 58 Minsk 220115	+375 (0)17 201 9158
BELGIUM	Centre Anti-Poisons/Antigifocentrum c/o Hôpital Central de la Base - Reine Astrid	Rue Bruyn 1 B -1120 Bruxelles/Brussel	+32 70 245 245
BULGARIA	Национален токсикологичен информационен център National Clinical Toxicology Centre, Emergency Medical Institute "Pirogov"	21 Totleben Boulevard 1606 SOFIA	+359 2 9154 409
CROATIA	Poisons Control Centre Institute of Medical Research & Occupational Health	Ksaverska Cesta 2 P.O. Box 291 HR-10000 Zagreb	+385 1 234 8342
CZECH REPUBLIC	Toxikologické informační středisko Clinic For Occupational Medicine, 1st Medical Faculty, Charles University	Na Bojišti 1 120 00 Praha 2	+42 2 2491 9293 +42 2 2491 5402
DENMARK	Giftlinjen Bispebjerg Hospital	Bispebjerg Bakke 23, 60, 1 DK-2400 København NV	+45 82 12 12 12 +45 35 31 55 55
ESTONIA	Mürgistusteabekeskus	Gonsiori 29 15027 Tallinn	+372 626 93 90
FINLAND	Myrkytystietokeskus	P.O.B 340 (Haartmaninkatu 4) HUS SF - 00029 Helsinki	+358 9 471 977
FRANCE	ORFILA		+33 1 45 42 59 59
GERMANY	Berliner Betrieb für Zentrale Gesundheitliche Aufgaben	Oranienburger Strasse 285 13437 Berlin	+49 30 19240
GERMANY	Informations und Beratungszentrum für Vergiftungsfälle	Kirrberger Straße, Gebäude 9 D-66421 Homburg/Saar	+49 6841 19240
GERMANY	Beratungstelle bei Vergiftungen, Klinische Toxikologie und Beratungsstelle bei Vergiftungen	Langenbeckstrasse 1 55131 Mainz	+49 6131 19240
GREECE	Poisons Information Centre	11527 Athens	+30 10 779 3777
HUNGARY	Országos Kémiai Biztonsági Intézet (National Institute of Chemical Safety) Egészségügyi Toxikológiai Tájékoztató Szolgálat (Health Toxicological Information Service)	1437 Budapest PO Box 839 1097 Budapest, Nagyvárad tér 2	+36 80 20 11 99
ICELAND	Eitrunarmiðstöðin	Eitrunarmiðstöðin 108 Reykjavik	+354 543 22 22
IRELAND	National Poisons Information Centre	Beaumont Hospital PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2166

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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 3	H226
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 statements : see section 16

#### Adverse physicochemical, human health and environmental effects

No additional information available

### 2.2. Label elements

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

Hazard pictograms (CLP)



GHS02      GHS07

Signal word (CLP)	: Warning
Hazardous ingredients	: 1-Methoxy-2-propanol
Hazard statements (CLP)	: H226 - 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. 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.

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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.

### 2.3. Other hazards

PBT: not yet assessed

vPvB: not yet assessed

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
1-Methoxy-2-propanol	(CAS-No.) 107-98-2 (EC-No.) 203-539-1 (EC Index-No.) 603-064-00-3	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 -30	Flam. Liq. 2, H225
Isopropanol	(CAS-No.) 67-63-0 (EC-No.) 200-661-7 (EC Index-No.) 603-117-00-0	1 - 7	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Rosin, fumarated, polymer with ethylene glycol and pentaerythritol	(CAS-No.) 68152-57-8 (EC-No.) *614-317-2	1 - 5	Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 4, H413
Carbon black	(CAS-No.) 1333-86-4 (EC-No.) 215-609-9	1 - 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	1 - 2	Flam. Liq. 3, H226
propyl acetate (Note C)	(CAS-No.) 109-60-4 (EC-No.) 203-686-1 (EC Index-No.) 607-024-00-6	0.1 - 1	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Ethyl acetate	(CAS-No.) 141-78-6 (EC-No.) 205-500-4 (EC Index-No.) 607-022-00-5	0.1 - 1	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 - 1	Not classified
Butyl acetate	(CAS-No.) 123-86-4 (EC-No.) 204-658-1 (EC Index-No.) 607-025-00-1	0.1 - 1	Flam. Liq. 3, H226 STOT SE 3, H336
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
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-statements: see section 16

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### 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	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Do NOT induce vomiting. Get medical advice/attention.

#### 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.
Symptoms/effects after eye contact	: Causes serious eye irritation.

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

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

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

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard	: Flammable liquid and vapour. Burning produces irritating, toxic and noxious fumes.
Explosion hazard	: Handling large quantities of product: Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.
Hazardous decomposition products in case of fire	: Carbon oxides (CO, CO <sub>2</sub> ). Hydrocarbon.

#### 5.3. Advice for firefighters

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

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

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

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

##### 6.1.2. For emergency responders

Protective equipment	: Chemical goggles or safety glasses. Wear suitable gloves.
Emergency procedures	: Stop leak if safe to do so. Ventilate area.

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

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

#### 6.4. Reference to other sections

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

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

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

#### 7.2. Conditions for safe storage, including any incompatibilities

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

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Incompatible materials	: Heat sources.
Heat and ignition sources	: Keep away from heat, sparks and flame.
Prohibitions on mixed storage	: Keep away from incompatible materials.
Storage area	: Store in dry, cool, well-ventilated area.

### 7.3. Specific end use(s)

Marking.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

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

EU	Local name	1-Methoxypropanol-2
EU	IOELV TWA (mg/m <sup>3</sup> )	375 mg/m <sup>3</sup>
EU	IOELV TWA (ppm)	100 ppm
EU	IOELV STEL (mg/m <sup>3</sup> )	568 mg/m <sup>3</sup>
EU	IOELV STEL (ppm)	150 ppm
EU	Notes	Skin
Austria	MAK (mg/m <sup>3</sup> )	187 mg/m <sup>3</sup>
Austria	MAK (ppm)	50 ppm
Austria	MAK Short time value (mg/m <sup>3</sup> )	187 mg/m <sup>3</sup>
Austria	MAK Short time value (ppm)	50 ppm
Austria	Remark (AT)	(gemessen als Momentanwert), (H)
Belgium	Limit value (mg/m <sup>3</sup> )	375 mg/m <sup>3</sup>
Belgium	Limit value (ppm)	100 ppm
Belgium	Short time value (mg/m <sup>3</sup> )	568 mg/m <sup>3</sup>
Belgium	Short time value (ppm)	150 ppm
Belgium	Remark (BE)	D
Czech Republic	Local name	1-Methoxy-2-propanol
Czech Republic	Expoziční limity (PEL) (mg/m <sup>3</sup> )	270 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (PEL) (ppm)	73.17 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m <sup>3</sup> )	550 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (NPK-P) (ppm)	149.05 ppm
Czech Republic	Remark (CZ)	D
Denmark	Local name	1-Methoxy-2-propanol (Propylenglycolmonomethylether)
Denmark	Grænsevædi (8 timer) (mg/m <sup>3</sup> )	185 mg/m <sup>3</sup>
Denmark	Grænsevædi (8 timer) (ppm)	50 ppm
Denmark	Grænsevædi (STEL) (mg/m <sup>3</sup> )	370 mg/m <sup>3</sup>
Denmark	Grænsevædi (STEL) (ppm)	100 ppm
Denmark	Anmærkninger (DK)	E (betyder, at stoffet har en EF-grænseværdi)
Finland	Local name	1-Metoksi-2-propanoli
Finland	HTP-arvo (8h) (mg/m <sup>3</sup> )	370 mg/m <sup>3</sup>
Finland	HTP-arvo (8h) (ppm)	100 ppm
Finland	HTP-arvo (15 min)	560 mg/m <sup>3</sup>
Finland	HTP-arvo (15 min) (ppm)	150 ppm
Finland	Huomautus (FI)	iho
France	Local name	Ether méthylique du propylène-glycol (1-Méthoxy-2-propanol)
France	VME (mg/m <sup>3</sup> )	188 mg/m <sup>3</sup>
France	VME (ppm)	50 ppm

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1-Methoxy-2-propanol (107-98-2)		
France	VLE (mg/m <sup>3</sup> )	375 mg/m <sup>3</sup>
France	VLE (ppm)	100 ppm
France	Note (FR)	Peau
Germany	TRGS 900 Local name	1-Methoxy-2-propanol
Germany	Occupational exposure limit value (mg/m <sup>3</sup> )	370 mg/m <sup>3</sup>
Germany	Occupational exposure limit value (ppm)	100 ppm
Germany	Limitation of exposure peaks (mg/m <sup>3</sup> )	740 mg/m <sup>3</sup>
Germany	Limitation of exposure peaks (ppm)	200 ppm
Germany	TRGS 900 Remark	DFG,EU,Y
Germany	TRGS 910 Acceptable concentration notes	
Hungary	Local name	1-METOXIPROPÁN-2-OL
Hungary	AK-érték	375 mg/m <sup>3</sup>
Hungary	CK-érték	568 mg/m <sup>3</sup>
Hungary	Megjegyzések (HU)	b; EU1
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	375 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (ppm)	100 ppm
Ireland	OEL (15 min ref) (mg/m <sup>3</sup> )	568 mg/m <sup>3</sup>
Ireland	OEL (15 min ref) (ppm)	150 ppm
Italy	Local name	Metossipropanolo-2,1-
Italy	OEL TWA (mg/m <sup>3</sup> )	375 mg/m <sup>3</sup>
Italy	OEL TWA (ppm)	100 ppm
Italy	OEL STEL (mg/m <sup>3</sup> )	568 mg/m <sup>3</sup>
Italy	OEL STEL (ppm)	150 ppm
Latvia	Local name	1-Metoksi-2-propanols (propilēnglikola monometilēteris, monopropilēnglikolmetilēteris)
Latvia	OEL TWA (mg/m <sup>3</sup> )	375 mg/m <sup>3</sup>
Latvia	OEL TWA (ppm)	100 ppm
Latvia	OEL STEL (mg/m <sup>3</sup> )	568 mg/m <sup>3</sup>
Latvia	OEL STEL (ppm)	150 ppm
Lithuania	IPRV (mg/m <sup>3</sup> )	190 mg/m <sup>3</sup>
Lithuania	IPRV (ppm)	50 ppm
Lithuania	TPRV (mg/m <sup>3</sup> )	300 mg/m <sup>3</sup>
Lithuania	TPRV (ppm)	75 ppm
Netherlands	Local name	1-Methoxy-2-propanol
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	375 mg/m <sup>3</sup>
Netherlands	Grenswaarde TGG 15MIN (mg/m <sup>3</sup> )	563 mg/m <sup>3</sup>
Netherlands	Remark (MAC)	(H)
Poland	Local name	1-Metoksypropan-2-ol
Poland	NDS (mg/m <sup>3</sup> )	180 mg/m <sup>3</sup>
Poland	NDSch (mg/m <sup>3</sup> )	360 mg/m <sup>3</sup>
Portugal	Local name	1-Metoxi-2-propanol (PGME)
Portugal	OEL TWA (ppm)	50 ppm
Portugal	OEL STEL (ppm)	100 ppm
Slovakia	Local name	1-Metoxipropan-2-ol (propylēnglykolmonometyléter)
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	375 mg/m <sup>3</sup>

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1-Methoxy-2-propanol (107-98-2)		
Slovakia	NPHV (priemerná) (ppm)	100 ppm
Slovakia	OEL STEL (mg/m <sup>3</sup> )	568 mg/m <sup>3</sup>
Slovakia	OEL STEL (ppm)	150 ppm
Slovakia	Upozornenie (SK)	(K)
Slovenia	Local name	1-metoksi-2-propanol (propilenglikolmonometil eter)
Slovenia	OEL TWA (mg/m <sup>3</sup> )	375 mg/m <sup>3</sup>
Slovenia	OEL TWA (ppm)	100 ppm
Slovenia	OEL STEL (mg/m <sup>3</sup> )	562.5 mg/m <sup>3</sup>
Slovenia	OEL STEL (ppm)	150 ppm
Spain	Local name	1-Metoxipropan-2-ol (Éter 1-metilico de propilenglicol)
Spain	VLA-ED (mg/m <sup>3</sup> )	375 mg/m <sup>3</sup>
Spain	VLA-ED (ppm)	100 ppm
Spain	VLA-EC (mg/m <sup>3</sup> )	568 mg/m <sup>3</sup>
Spain	VLA-EC (ppm)	150 ppm
Spain	Notes	vía dérmica, VLI
Sweden	Local name	1-Metoxi-2-propanol
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	190 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (ppm)	50 ppm
Sweden	kortidsvärde (KTV) (mg/m <sup>3</sup> )	300 mg/m <sup>3</sup>
Sweden	kortidsvärde (KTV) (ppm)	75 ppm
Sweden	Anmärkning (SE)	H
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	375 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	100 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	560 mg/m <sup>3</sup>
United Kingdom	WEL STEL (ppm)	150 ppm
Norway	Local name	1-metoksy-2-propanol (Propylenglykolmonometyleter)
Norway	Grenseverdier (AN) (mg/m <sup>3</sup> )	180 mg/m <sup>3</sup>
Norway	Grenseverdier (AN) (ppm)	50 ppm
Norway	Merknader (NO)	H
Switzerland	VME (mg/m <sup>3</sup> )	360 mg/m <sup>3</sup>
Switzerland	MAK (ppm)	100 ppm 20 ppm (urina; fine dell'esposizione / del turno)
Switzerland	KZGW (mg/m <sup>3</sup> )	720 mg/m <sup>3</sup>
Switzerland	KZGW (ppm)	200 ppm

Ethyl acetate (141-78-6)		
EU	Local name	Ethyl acetate
EU	IOELV TWA (mg/m <sup>3</sup> )	734 mg/m <sup>3</sup>
EU	IOELV TWA (ppm)	200 ppm
EU	IOELV STEL (mg/m <sup>3</sup> )	1468 mg/m <sup>3</sup>
EU	IOELV STEL (ppm)	400 ppm
EU	Regulatory reference	COMMISSION DIRECTIVE (EU) 2017/164
Austria	MAK (mg/m <sup>3</sup> )	1050 mg/m <sup>3</sup>
Austria	MAK (ppm)	300 ppm
Austria	MAK Short time value (mg/m <sup>3</sup> )	2100 mg/m <sup>3</sup> max. 8x5 min./Schicht (gemessen als

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Ethyl acetate (141-78-6)		
		Momentanwert)
Austria	MAK Short time value (ppm)	600 ppm max. 8x5 min./Schicht (gemessen als Momentanwert)
Belgium	Limit value (mg/m <sup>3</sup> )	1461 mg/m <sup>3</sup>
Belgium	Limit value (ppm)	400 ppm
Czech Republic	Local name	Ethylacetát
Czech Republic	Expoziční limity (PEL) (mg/m <sup>3</sup> )	700 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (PEL) (ppm)	195 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m <sup>3</sup> )	900 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (NPK-P) (ppm)	250 ppm
Czech Republic	Remark (CZ)	I (dráždí sliznice (oči, dýchací cesty) resp. kůži)
Czech Republic	Regulatory reference	Nařízení vlády č. 361/2007 Sb. (zpracovány změny č. 246/2018 Sb.)
Denmark	Local name	Ethylacetat (Eddikesyreethylester)
Denmark	Grænsevædi (8 timer) (mg/m <sup>3</sup> )	540 mg/m <sup>3</sup>
Denmark	Grænsevædi (8 timer) (ppm)	150 ppm
Denmark	Grænsevædi (STEL) (mg/m <sup>3</sup> )	1080 mg/m <sup>3</sup>
Denmark	Grænsevædi (STEL) (ppm)	300 ppm
Denmark	Anmærkninger (DK)	E (betyder, at stoffet har en EF-grænseværdi)
Denmark	Regulatory reference	BEK nr 1458 af 13/12/2019
Finland	Local name	Etyliasettaatti
Finland	HTP-arvo (8h) (mg/m <sup>3</sup> )	730 mg/m <sup>3</sup>
Finland	HTP-arvo (8h) (ppm)	200 ppm
Finland	HTP-arvo (15 min)	1470 mg/m <sup>3</sup>
Finland	HTP-arvo (15 min) (ppm)	400 ppm
Finland	Regulatory reference	HTP-ARVOT 2018 (Sosiaali- ja terveystieteiden ministeriö)
France	Local name	Acétate d'éthyle
France	VME (mg/m <sup>3</sup> )	734 mg/m <sup>3</sup>
France	VME (ppm)	200 ppm
France	VLE (mg/m <sup>3</sup> )	1468 mg/m <sup>3</sup>
France	VLE (ppm)	400 ppm
France	Note (FR)	Valeurs réglementaires contraignantes. Les valeurs entrent en vigueur le 1er juillet 2020.
France	Regulatory reference	Article R4412-149 du Code du travail (réf.: INRS ED 984, 2016; Décret n° 2019-1487)
Germany	TRGS 900 Local name	Ethylacetat
Germany	Occupational exposure limit value (mg/m <sup>3</sup> )	730 mg/m <sup>3</sup>
Germany	Occupational exposure limit value (ppm)	200 ppm
Germany	Limitation of exposure peaks	2(I)
Germany	TRGS 900 Remark	DFG;EU;Y
Germany	TRGS 900 Regulatory reference	TRGS900
Germany	TRGS 910 Acceptable concentration notes	
Hungary	Local name	ETIL-ACETÁT
Hungary	AK-érték	734 mg/m <sup>3</sup>
Hungary	CK-érték	1468 mg/m <sup>3</sup>
Hungary	Megjegyzések (HU)	i (ingerlő anyag, amely izgatja a bőrt, nyálkahártyát,



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Ethyl acetate (141-78-6)		
		szemet vagy mindhármat), sz (Túlérzékenységet okozó (szenzibilizáló) tulajdonságú anyag. Az anyagra érzékeny egyéneken „túlérzékenységen” alapuló bőr-, légzőrendszeri, esetleg más szövet/szervrendszert károsító megbetegedést okozhat); EU4 (2017/164 EU irányelvben közölt érték); N (Irritáló anyagok, egyszerű fojtógázok, csekély egészségkárosító hatással bíró anyagok)
Hungary	Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
Ireland	OEL (8 hours ref) (ppm)	200 ppm
Ireland	OEL (15 min ref) (ppm)	400 ppm
Latvia	Local name	Etiķskābes etilsteris (etilacetāts)
Latvia	OEL TWA (mg/m <sup>3</sup> )	200 mg/m <sup>3</sup> 54 mg/m <sup>3</sup> 1468 mg/m <sup>3</sup> 400 mg/m <sup>3</sup>
Latvia	Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2018. gada 10. jūlijā noteikumiem Nr. 407)
Lithuania	IPRV (mg/m <sup>3</sup> )	500 mg/m <sup>3</sup>
Lithuania	IPRV (ppm)	150 ppm
Lithuania	NRV (mg/m <sup>3</sup> )	1100 mg/m <sup>3</sup>
Lithuania	NRV (ppm)	300 ppm
Netherlands	Local name	Ethylacetaat
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	734 mg/m <sup>3</sup>
Netherlands	Grenswaarde TGG 15MIN (mg/m <sup>3</sup> )	1468 mg/m <sup>3</sup>
Netherlands	Regulatory reference	Arbeidsomstandighedenregeling 2020
Poland	Local name	Octan etylu
Poland	NDS (mg/m <sup>3</sup> )	734 mg/m <sup>3</sup>
Poland	NDSch (mg/m <sup>3</sup> )	1468 mg/m <sup>3</sup>
Poland	Regulatory reference	Dz. U. 2018 poz. 1286
Portugal	Local name	Acetato de etilo
Portugal	OEL TWA (ppm)	400 ppm
Slovakia	Regulatory reference	Norma Portuguesa NP 1796:2014
Slovakia	Local name	Etylacetát (octan etylový)
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	734 mg/m <sup>3</sup>
Slovakia	NPHV (priemerná) (ppm)	200 ppm
Slovakia	OEL STEL (mg/m <sup>3</sup> )	1468 mg/m <sup>3</sup>
Slovakia	OEL STEL (ppm)	400 ppm
Slovakia	Regulatory reference	Nariadenie vlády č. 33/2018 Z. z.
Slovenia	Local name	etilacetat
Slovenia	OEL TWA (mg/m <sup>3</sup> )	734 mg/m <sup>3</sup>
Slovenia	OEL TWA (ppm)	200 ppm
Slovenia	OEL STEL (mg/m <sup>3</sup> )	1468 mg/m <sup>3</sup>
Slovenia	OEL STEL (ppm)	400 ppm
Slovenia	Remark (SI)	Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti), EU
Slovenia	Regulatory reference	Uradni list RS, št. 78/2019 z dne 20.12.2019

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Ethyl acetate (141-78-6)		
Spain	Local name	Acetato de etilo
Spain	VLA-ED (mg/m <sup>3</sup> )	734 mg/m <sup>3</sup>
Spain	VLA-ED (ppm)	200 ppm
Spain	VLA-EC (mg/m <sup>3</sup> )	1468 mg/m <sup>3</sup>
Spain	VLA-EC (ppm)	400 ppm
Spain	Notes	VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo).
Spain	Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
Sweden	Local name	Etylacetat
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	550 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (ppm)	150 ppm
Sweden	kortidsvärde (KTV) (mg/m <sup>3</sup> )	1100 mg/m <sup>3</sup>
Sweden	kortidsvärde (KTV) (ppm)	300 ppm
Sweden	Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	730 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	200 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	1460 mg/m <sup>3</sup>
United Kingdom	WEL STEL (ppm)	400 ppm
Norway	Local name	Etylacetat
Norway	Grenseverdier (AN) (mg/m <sup>3</sup> )	734 mg/m <sup>3</sup>
Norway	Grenseverdier (AN) (ppm)	200 ppm
Norway	Grenseverdier (Korttidsverdi) (mg/m <sup>3</sup> )	1468 mg/m <sup>3</sup>
Norway	Grenseverdier (Korttidsverdi) (ppm)	400 ppm
Norway	Merknader (NO)	E (EU har en veiledende grenseverdi for stoffet); S (Korttidsverdi er en verdi for gjennomsnittskonsentrasjonen av et kjemisk stoff i pustesonen til en arbeidstaker som ikke skal overskrides i en fastsatt referanseperiode. Referanseperioden er 15 minutter)
Norway	Regulatory reference	FOR-2018-08-21-1255
Switzerland	VME (mg/m <sup>3</sup> )	1400 mg/m <sup>3</sup>
Switzerland	MAK (ppm)	400 ppm
Switzerland	KZGW (mg/m <sup>3</sup> )	2800 mg/m <sup>3</sup> max. 4x15 min./turno
Switzerland	KZGW (ppm)	800 ppm max. 4x15 min./turno

Butyl acetate (123-86-4)		
EU	Local name	n-Butyl acetate
EU	IOELV TWA (mg/m <sup>3</sup> )	241 mg/m <sup>3</sup>
EU	IOELV TWA (ppm)	50 ppm
EU	IOELV STEL (mg/m <sup>3</sup> )	723 mg/m <sup>3</sup>
EU	IOELV STEL (ppm)	150 ppm
EU	Regulatory reference	COMMISSION DIRECTIVE (EU) 2019/1831
Austria	MAK (mg/m <sup>3</sup> )	480 mg/m <sup>3</sup>
Austria	MAK (ppm)	100 ppm
Austria	MAK Short time value (mg/m <sup>3</sup> )	480 mg/m <sup>3</sup>
Austria	MAK Short time value (ppm)	100 ppm

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Butyl acetate (123-86-4)		
Austria	Remark (AT)	(gemessen als Momentanwert)
Belgium	Limit value (mg/m <sup>3</sup> )	723 mg/m <sup>3</sup>
Belgium	Limit value (ppm)	150 ppm
Belgium	Short time value (mg/m <sup>3</sup> )	964 mg/m <sup>3</sup>
Belgium	Short time value (ppm)	200 ppm
Czech Republic	Local name	Butylacetát
Czech Republic	Expoziční limity (PEL) (mg/m <sup>3</sup> )	950 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (PEL) (ppm)	200.5 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m <sup>3</sup> )	1200 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (NPK-P) (ppm)	253 ppm
Czech Republic	Regulatory reference	Nařízení vlády č. 361/2007 Sb. (zpracovány změny č. 246/2018 Sb.)
Denmark	Local name	n-Butylacetat
Denmark	Grænsevædi (8 timer) (mg/m <sup>3</sup> )	710 mg/m <sup>3</sup>
Denmark	Grænsevædi (8 timer) (ppm)	150 ppm
Denmark	Grænsevædi (STEL) (mg/m <sup>3</sup> )	1420 mg/m <sup>3</sup>
Denmark	Grænsevædi (STEL) (ppm)	300 ppm
Denmark	Regulatory reference	BEK nr 1458 af 13/12/2019
Finland	Local name	n-Butyliasettaatti
Finland	HTP-arvo (8h) (mg/m <sup>3</sup> )	720 mg/m <sup>3</sup>
Finland	HTP-arvo (8h) (ppm)	150 ppm
Finland	HTP-arvo (15 min)	960 mg/m <sup>3</sup>
Finland	HTP-arvo (15 min) (ppm)	200 ppm
Finland	Regulatory reference	HTP-ARVOT 2018 (Sosiaali- ja terveystieteiden ministeriö)
France	Local name	Acétate de n-butyle
France	VME (mg/m <sup>3</sup> )	710 mg/m <sup>3</sup>
France	VME (ppm)	150 ppm
France	VLE (mg/m <sup>3</sup> )	940 mg/m <sup>3</sup>
France	VLE (ppm)	200 ppm
France	Note (FR)	Valeurs recommandées/admises
France	Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Germany	TRGS 900 Local name	n-Butylacetat
Germany	Occupational exposure limit value (mg/m <sup>3</sup> )	300 mg/m <sup>3</sup>
Germany	Occupational exposure limit value (ppm)	62 ppm
Germany	Limitation of exposure peaks	2(l)
Germany	TRGS 900 Remark	AGS;Y
Germany	TRGS 900 Regulatory reference	TRGS900
Germany	TRGS 910 Acceptable concentration notes	
Hungary	Local name	n-BUTIL-ACETÁT
Hungary	AK-érték	241 mg/m <sup>3</sup>
Hungary	CK-érték	723 mg/m <sup>3</sup>
Hungary	Megjegyzések (HU)	i (ingerlő anyag, amely irritálja a bőrt, nyálkahártyát, szemet vagy mindhármát), sz (Túlérzékenységet okozó (szenzibilizáló) tulajdonságú anyag. Az anyagra érzékeny egyéneken „túlérzékenységen” alapuló bőr-, légzőrendszeri, esetleg más szervet/szervrendszert

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Butyl acetate (123-86-4)		
		károsító megbetegedést okozhat); N (Irritáló anyagok, egyszerű fajtógázok, csekély egészségkárosító hatással bíró anyagok)
Hungary	Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitétt munkavállalók egészségének és biztonságának védelméről
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	710 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (ppm)	150 ppm
Ireland	OEL (15 min ref) (mg/m <sup>3</sup> )	950 mg/m <sup>3</sup>
Ireland	OEL (15 min ref) (ppm)	200 ppm
Latvia	Local name	Etīķskābes butilesteris (n-butilacetāts)
Latvia	OEL TWA (mg/m <sup>3</sup> )	200 mg/m <sup>3</sup>
Latvia	Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2011. gada 1. februārī noteikumiem Nr. 92)
Lithuania	IPRV (mg/m <sup>3</sup> )	500 mg/m <sup>3</sup>
Lithuania	IPRV (ppm)	100 ppm
Lithuania	TPRV (mg/m <sup>3</sup> )	700 mg/m <sup>3</sup>
Lithuania	TPRV (ppm)	150 ppm
Poland	Local name	Octan n-butylu (n-butylu octan)
Poland	NDS (mg/m <sup>3</sup> )	240 mg/m <sup>3</sup>
Poland	NDSch (mg/m <sup>3</sup> )	720 mg/m <sup>3</sup>
Poland	Regulatory reference	Dz. U. 2018 poz. 1286
Portugal	Local name	Acetato de n-butilo
Portugal	OEL TWA (ppm)	150 ppm
Portugal	OEL STEL (ppm)	200 ppm
Slovakia	Regulatory reference	Norma Portuguesa NP 1796:2014
Slovakia	Local name	Butylacetáty: n-Butylacetát
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	500 mg/m <sup>3</sup>
Slovakia	NPHV (priemerná) (ppm)	100 ppm
Slovakia	OEL STEL (mg/m <sup>3</sup> )	700 mg/m <sup>3</sup>
Slovakia	OEL STEL (ppm)	150 ppm
Slovakia	Regulatory reference	Nariadenie vlády č. 33/2018 Z. z.
Slovenia	Local name	n-butilacetat
Slovenia	OEL TWA (mg/m <sup>3</sup> )	300 mg/m <sup>3</sup>
Slovenia	OEL TWA (ppm)	62 ppm
Slovenia	OEL STEL (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
Slovenia	OEL STEL (ppm)	124 ppm
Slovenia	Remark (SI)	Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti)
Slovenia	Regulatory reference	Uradni list RS, št. 78/2019 z dne 20.12.2019
Spain	Local name	Acetato de n-butilo
Spain	VLA-ED (mg/m <sup>3</sup> )	724 mg/m <sup>3</sup>
Spain	VLA-ED (ppm)	150 ppm
Spain	VLA-EC (mg/m <sup>3</sup> )	965 mg/m <sup>3</sup>
Spain	VLA-EC (ppm)	200 ppm
Spain	Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT

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Butyl acetate (123-86-4)		
Sweden	Local name	n-Butylacetat
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	500 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (ppm)	100 ppm
Sweden	kortidsvärde (KTV) (mg/m <sup>3</sup> )	700 mg/m <sup>3</sup>
Sweden	kortidsvärde (KTV) (ppm)	150 ppm
Sweden	Anmärkning (SE)	V (Vägledande korttidsgränsvärde ska användas som ett rekommenderat högsta värde som inte bör överskridas)
Sweden	Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	724 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	150 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	966 mg/m <sup>3</sup>
United Kingdom	WEL STEL (ppm)	200 ppm
Norway	Grenseverdier (AN) (mg/m <sup>3</sup> )	355 mg/m <sup>3</sup>
Norway	Grenseverdier (AN) (ppm)	75 ppm
Switzerland	VME (mg/m <sup>3</sup> )	480 mg/m <sup>3</sup>
Switzerland	MAK (ppm)	100 ppm
Switzerland	KZGW (mg/m <sup>3</sup> )	960 mg/m <sup>3</sup> max. 8x5 min./turno
Switzerland	KZGW (ppm)	200 ppm max. 8x5 min./turno

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

2-methoxypropyl acetate (70657-70-4)		
Czech Republic	Remark (CZ)	D
Denmark	Grænsevædi (STEL) (mg/m <sup>3</sup> )	220 mg/m <sup>3</sup>
Denmark	Grænsevædi (STEL) (ppm)	40 ppm
Germany	Limitation of exposure peaks (mg/m <sup>3</sup> )	224 mg/m <sup>3</sup>
Germany	Limitation of exposure peaks (ppm)	40 ppm
Germany	TRGS 910 Acceptable concentration notes	
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	110 mg/m <sup>3</sup>

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2-methoxypropyl acetate (70657-70-4)		
Slovakia	NPHV (priemerná) (ppm)	20 ppm
Slovakia	Upozornenie (SK)	(K)
Spain	VLA-ED (mg/m <sup>3</sup> )	28 mg/m <sup>3</sup>
Spain	VLA-ED (ppm)	5 ppm
Spain	VLA-EC (mg/m <sup>3</sup> )	220 mg/m <sup>3</sup>
Spain	VLA-EC (ppm)	40 ppm
Spain	Notes	TR1B,r

2-methylpropan-1-ol (78-83-1)		
Czech Republic	Local name	Butanol (všechny isomery)
Czech Republic	Expoziční limity (PEL) (mg/m <sup>3</sup> )	300 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (PEL) (ppm)	100 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (NPK-P) (ppm)	200 ppm
Czech Republic	Remark (CZ)	D
Denmark	Local name	Isobutylalkohol
Denmark	Grænsevædi (8 timer) (mg/m <sup>3</sup> )	150 mg/m <sup>3</sup>
Denmark	Grænsevædi (8 timer) (ppm)	50 ppm
Denmark	Anmærkninger (DK)	L (markerer, at grænseværdien er en loftværdi, som ikke på noget tidspunkt må overskrides); H (betyder, at stoffet kan optages gennem huden)
Finland	Huomautus (FI)	iho
France	Local name	Alcool isobutylique
France	VME (mg/m <sup>3</sup> )	150 mg/m <sup>3</sup>
France	VME (ppm)	50 ppm
France	Note (FR)	Valeurs recommandées/admises
Germany	TRGS 900 Local name	2-Methylpropan-1-ol
Germany	Occupational exposure limit value (mg/m <sup>3</sup> )	310 mg/m <sup>3</sup>
Germany	Occupational exposure limit value (ppm)	100 ppm
Germany	Limitation of exposure peaks (mg/m <sup>3</sup> )	310 mg/m <sup>3</sup>
Germany	Limitation of exposure peaks (ppm)	100 ppm
Germany	TRGS 900 Remark	DFG,Y
Germany	TRGS 910 Acceptable concentration notes	
Poland	Local name	2-Metylopropan-1-ol (izobutyłowy alkohol)
Poland	NDS (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Poland	NDSch (mg/m <sup>3</sup> )	200 mg/m <sup>3</sup>
Portugal	Local name	Isobutanol (Álcool isobutílico)
Portugal	OEL TWA (ppm)	50 ppm
Slovakia	Local name	izo-Butanol
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	310 mg/m <sup>3</sup>
Slovakia	NPHV (priemerná) (ppm)	100 ppm
Slovenia	Local name	2-metilpropan-1-ol (izobutanol)
Slovenia	OEL TWA (mg/m <sup>3</sup> )	310 mg/m <sup>3</sup>
Slovenia	OEL TWA (ppm)	100 ppm
Slovenia	OEL STEL (mg/m <sup>3</sup> )	310 mg/m <sup>3</sup>

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2-methylpropan-1-ol (78-83-1)		
Slovenia	OEL STEL (ppm)	100 ppm
Spain	Local name	Isobutanol (Alcohol isobutílico)
Spain	VLA-ED (mg/m <sup>3</sup> )	154 mg/m <sup>3</sup>
Spain	VLA-ED (ppm)	50 ppm
Sweden	Local name	iso-Butanol
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	150 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (ppm)	50 ppm
Sweden	kortidsvärde (KTV) (mg/m <sup>3</sup> )	250 mg/m <sup>3</sup>
Sweden	kortidsvärde (KTV) (ppm)	75 ppm
Sweden	Anmärkning (SE)	H
Norway	Local name	2-metylpropan-1-ol
Norway	Grenseverdier (AN) (mg/m <sup>3</sup> )	75 mg/m <sup>3</sup>
Norway	Grenseverdier (AN) (ppm)	25 ppm
Norway	Grenseverdier (Takverdi) (mg/m <sup>3</sup> )	75 mg/m <sup>3</sup>
Norway	Grenseverdier (Takverdi) (ppm)	25 ppm
Norway	Merknader (NO)	H (Kjemikalier som kan tas opp gjennom huden); T (Takverdi er en øyeblikksverdi som angir maksimalkonsentrasjon av et kjemikalie i pustesonen som ikke skal overskrides)

Carbon black (1333-86-4)		
Belgium	Limit value (mg/m <sup>3</sup> )	3.5 mg/m <sup>3</sup>
Denmark	Local name	Carbon black
Denmark	Grænsevædi (8 timer) (mg/m <sup>3</sup> )	3.5 mg/m <sup>3</sup>
Denmark	Anmærkninger (DK)	K (betyder, at stoffet anses for at kunne være kræftfremkaldende)
Denmark	Regulatory reference	BEK nr 1458 af 13/12/2019
Finland	Local name	Nokimusta
Finland	HTP-arvo (8h) (mg/m <sup>3</sup> )	3.5 mg/m <sup>3</sup>
Finland	HTP-arvo (15 min)	7 mg/m <sup>3</sup>
Finland	Regulatory reference	HTP-ARVOT 2018 (Sosiaali- ja terveystieteiden ministeriö)
France	Local name	Noir de carbone
France	VME (mg/m <sup>3</sup> )	3.5 mg/m <sup>3</sup>
France	Note (FR)	Valeurs recommandées/admises
France	Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Germany	TRGS 910 Acceptable concentration notes	
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	3.5 mg/m <sup>3</sup>
Ireland	OEL (15 min ref) (mg/m <sup>3</sup> )	7 mg/m <sup>3</sup>
Poland	Local name	Sadza techniczna
Poland	NDS (mg/m <sup>3</sup> )	4 mg/m <sup>3</sup> frakcja wdychalna
Poland	Remark (PL)	Frakcja wdychalna – frakcja aerozolu wnikaćca przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia.
Poland	Regulatory reference	Dz. U. 2018 poz. 1286
Portugal	Local name	Carbono, preto (Negro de fumo)
Portugal	OEL TWA (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup> I (Fração inalável)

# Paint-Riter™ + Aerospace Black

## Safety Data Sheet

according to Regulation (EU) 2015/830

Carbon black (1333-86-4)		
Slovakia	Regulatory reference	Norma Portuguesa NP 1796:2014
Spain	Local name	Negro de humo
Spain	VLA-ED (mg/m <sup>3</sup> )	3.5 mg/m <sup>3</sup>
Spain	Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
Sweden	Local name	Kimrök
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
Sweden	Anmärkning (SE)	2 (Med totaldamm menas de partiklar (aerosoler) som fastnar på ett filter i den provtagare som beskrivs i Metodserien, Provtagning av totaldamm och respirabelt damm, Metod nr 1010, Arbetskyddsstyrelsen, numera Arbetsmiljöverket. Filterdiametern är normalt 37 mm, men kan även vara 25 mm. Trots sitt namn provtas inte den totala mängden luftburna partiklar med denna metod)
United Kingdom	Local name	Carbon black
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	3.5 mg/m <sup>3</sup>
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	7 mg/m <sup>3</sup>
Norway	Local name	Carbon Black (lampesot)
Norway	Grenseverdier (AN) (mg/m <sup>3</sup> )	3.5 mg/m <sup>3</sup>
Norway	Regulatory reference	FOR-2018-08-21-1255

(2-Methoxymethylethoxy)-propanol (34590-94-8)		
EU	Local name	(2-Methoxymethylethoxy)-propanol
EU	IOELV TWA (mg/m <sup>3</sup> )	308 mg/m <sup>3</sup>
EU	IOELV TWA (ppm)	50 ppm
EU	Notes	Skin
EU	Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
Austria	MAK (mg/m <sup>3</sup> )	307 mg/m <sup>3</sup>
Austria	MAK (ppm)	50 ppm
Austria	MAK Short time value (mg/m <sup>3</sup> )	614 mg/m <sup>3</sup>
Austria	MAK Short time value (ppm)	100 ppm
Austria	Remark (AT)	max. 8x5 min./Schicht (gemessen als Momentanwert)
Belgium	Limit value (mg/m <sup>3</sup> )	308 mg/m <sup>3</sup>
Belgium	Limit value (ppm)	50 ppm
Belgium	Remark (BE)	D
Czech Republic	Local name	propanol(2-Methoxymethylethoxy)-(technická sm s isomer )
Czech Republic	Expoziční limity (PEL) (mg/m <sup>3</sup> )	270 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (PEL) (ppm)	44.55 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m <sup>3</sup> )	550 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (NPK-P) (ppm)	90.75 ppm
Czech Republic	Remark (CZ)	D
Czech Republic	Regulatory reference	Nařízení vlády č. 361/2007 Sb. (zpracovány změny č. 246/2018 Sb.)
Denmark	Local name	Dipropylenglycolmethylether (Methoxypropoxypropanol)
Denmark	Grænsevædi (8 timer) (mg/m <sup>3</sup> )	300 mg/m <sup>3</sup>
Denmark	Grænsevædi (8 timer) (ppm)	50 ppm
Denmark	Grænsevædi (STEL) (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>



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<b>(2-Methoxymethylethoxy)-propanol (34590-94-8)</b>		
Denmark	Grænsevædi (STEL) (ppm)	100 ppm
Denmark	Anmærkninger (DK)	H
Denmark	Regulatory reference	BEK nr 1458 af 13/12/2019
Finland	Local name	(2-Metoksimetyylietoksi)-propanoli
Finland	HTP-arvo (8h) (mg/m <sup>3</sup> )	310 mg/m <sup>3</sup>
Finland	HTP-arvo (8h) (ppm)	50 ppm
Finland	Huomautus (FI)	iho
Finland	Regulatory reference	HTP-ARVOT 2018 (Sosiaali- ja terveysministeriö)
France	Local name	(2-méthoxyméthyléthoxy)-propanol
France	VME (mg/m <sup>3</sup> )	308 mg/m <sup>3</sup>
France	VME (ppm)	50 ppm
France	Note (FR)	Peau
France	Regulatory reference	Article R4412-149 du Code du travail (réf.: INRS ED 984, 2016; Décret n° 2019-1487)
Germany	TRGS 900 Local name	(2-Methoxymethylethoxy)propanol (Isomerengemisch)
Germany	Occupational exposure limit value (mg/m <sup>3</sup> )	310 mg/m <sup>3</sup>
Germany	Occupational exposure limit value (ppm)	50 ppm
Germany	Limitation of exposure peaks (mg/m <sup>3</sup> )	310 mg/m <sup>3</sup>
Germany	Limitation of exposure peaks (ppm)	50 ppm
Germany	Limitation of exposure peaks	1(l)
Germany	TRGS 900 Remark	DFG,EU,11
Germany	TRGS 900 Regulatory reference	TRGS900
Germany	TRGS 910 Acceptable concentration notes	
Hungary	Local name	(2-METOXIMETILETOXI)-PROPANOL (Dipropilēnglikolmonometil-éter)
Hungary	AK-érték	308 mg/m <sup>3</sup>
Hungary	CK-érték	308 mg/m <sup>3</sup>
Hungary	Megjegyzések (HU)	EU1
Hungary	Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	308 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (ppm)	50 ppm
Ireland	Notes (IE)	Sk, IOELV
Italy	Local name	(2-metossimetiletossi)-propanolo
Italy	OEL TWA (mg/m <sup>3</sup> )	308 mg/m <sup>3</sup>
Italy	OEL TWA (ppm)	50 ppm
Italy	Notes	pelle
Italy	Regulatory reference	Allegato XXXVIII del D.Lgs. 9 aprile 2008, n. 81 e s.m.i.
Latvia	Local name	Metoksimetoksipropoksī propanols (dipropilēnglikola monometilēteris, DPM)
Latvia	OEL TWA (mg/m <sup>3</sup> )	308 mg/m <sup>3</sup>
Latvia	OEL TWA (ppm)	50 ppm
Latvia	Remark (LV)	Āda
Latvia	Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2011. gada 1. februārī noteikumiem Nr. 92)

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(2-Methoxymethylethoxy)-propanol (34590-94-8)		
Lithuania	IPRV (mg/m <sup>3</sup> )	300 mg/m <sup>3</sup>
Lithuania	IPRV (ppm)	50 ppm
Lithuania	TPRV (mg/m <sup>3</sup> )	450 mg/m <sup>3</sup>
Lithuania	TPRV (ppm)	75 ppm
Lithuania	Remark (LT)	O
Netherlands	Local name	Dipropyleenglycolmethylether
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	300 mg/m <sup>3</sup>
Netherlands	Regulatory reference	Arbeidsomstandighedenregeling 2020
Poland	Local name	(2-Metoksymetyloetoksy)propanol
Poland	NDS (mg/m <sup>3</sup> )	240 mg/m <sup>3</sup>
Poland	NDSCh (mg/m <sup>3</sup> )	480 mg/m <sup>3</sup>
Poland	Remark (PL)	Skóra (Oznakowanie substancji notacją „skóra” oznacza, że wchłanianie substancji przez skórę może być tak samo istotne jak przy narażeniu drogą oddechową).
Poland	Regulatory reference	Dz. U. 2018 poz. 1286
Portugal	Local name	2-Metoximetiletoxiopropanol (DPGME)
Portugal	OEL TWA (ppm)	100 ppm
Portugal	OEL STEL (ppm)	150 ppm
Slovakia	Regulatory reference	Norma Portuguesa NP 1796:2014
Slovakia	Local name	2-Metoxymetyl-etoxypropanol (dipropylén glykol monometyléter)
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	308 mg/m <sup>3</sup>
Slovakia	NPHV (priemerná) (ppm)	50 ppm
Slovakia	Upozornenie (SK)	poznámka K
Slovakia	Regulatory reference	Nariadenie vlády č. 33/2018 Z. z.
Slovenia	Local name	(2-metoksimetiletoksi)propanol (mešanica izomer)
Slovenia	OEL TWA (mg/m <sup>3</sup> )	308 mg/m <sup>3</sup>
Slovenia	OEL TWA (ppm)	50 ppm
Slovenia	OEL STEL (mg/m <sup>3</sup> )	308 mg/m <sup>3</sup>
Slovenia	OEL STEL (ppm)	50 ppm
Slovenia	Remark (SI)	K (Lastnost lažjega prehajanja snovi v organizem skozi kožo), EU
Slovenia	Regulatory reference	Uradni list RS, št. 78/2019 z dne 20.12.2019
Spain	Local name	Éter metílico de dipropilenglicol
Spain	VLA-ED (mg/m <sup>3</sup> )	308 mg/m <sup>3</sup>
Spain	VLA-ED (ppm)	50 ppm
Spain	Notes	vía dérmica, VLI
Spain	Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
Sweden	Local name	Dipropylenglykolmonometyleter
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	300 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (ppm)	50 ppm
Sweden	kortidsvärde (KTV) (mg/m <sup>3</sup> )	450 mg/m <sup>3</sup>
Sweden	kortidsvärde (KTV) (ppm)	75 ppm
Sweden	Anmärkning (SE)	H
Sweden	Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)

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<b>(2-Methoxymethylethoxy)-propanol (34590-94-8)</b>		
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	308 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	50 ppm
United Kingdom	Remark (WEL)	(Sk)
Norway	Local name	(2-metoksymetyletoksy)-propanol (Dipropylenglykolmetyleter)
Norway	Grænseværdier (AN) (mg/m <sup>3</sup> )	300 mg/m <sup>3</sup>
Norway	Grænseværdier (AN) (ppm)	50 ppm
Norway	Merknader (NO)	H
Norway	Regulatory reference	FOR-2018-08-21-1255
Switzerland	VME (mg/m <sup>3</sup> )	300 mg/m <sup>3</sup>
Switzerland	MAK (ppm)	50 ppm
Switzerland	KZGW (mg/m <sup>3</sup> )	300 mg/m <sup>3</sup>
Switzerland	KZGW (ppm)	50 ppm

<b>ethanol (64-17-5)</b>		
Austria	MAK (mg/m <sup>3</sup> )	1900 mg/m <sup>3</sup>
Austria	MAK (ppm)	1000 ppm
Austria	MAK Short time value (mg/m <sup>3</sup> )	3800 mg/m <sup>3</sup> max. 3x60 min./Schicht (gemessen als Momentanwert)
Austria	MAK Short time value (ppm)	2000 ppm max. 3x60 min./Schicht (gemessen als Momentanwert)
Belgium	Limit value (mg/m <sup>3</sup> )	1907 mg/m <sup>3</sup>
Belgium	Limit value (ppm)	1000 ppm
Czech Republic	Local name	Ethanol (Ethylalkohol)
Czech Republic	Expoziční limity (PEL) (mg/m <sup>3</sup> )	1000 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (PEL) (ppm)	530 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m <sup>3</sup> )	3000 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (NPK-P) (ppm)	1600 ppm
Czech Republic	Regulatory reference	Nařízení vlády č. 361/2007 Sb. (zpracovány změny č. 246/2018 Sb.)
Denmark	Local name	Ethanol (Ethylalkohol)
Denmark	Grænseværdi (8 timer) (mg/m <sup>3</sup> )	1900 mg/m <sup>3</sup>
Denmark	Grænseværdi (8 timer) (ppm)	1000 ppm
Denmark	Grænseværdi (STEL) (mg/m <sup>3</sup> )	3800 mg/m <sup>3</sup>
Denmark	Grænseværdi (STEL) (ppm)	2000 ppm
Denmark	Regulatory reference	BEK nr 1458 af 13/12/2019
Finland	Local name	Etanoli
Finland	HTP-arvo (8h) (mg/m <sup>3</sup> )	1900 mg/m <sup>3</sup>
Finland	HTP-arvo (8h) (ppm)	1000 ppm
Finland	HTP-arvo (15 min)	2500 mg/m <sup>3</sup>
Finland	HTP-arvo (15 min) (ppm)	1300 ppm
Finland	Regulatory reference	HTP-ARVOT 2018 (Sosiaali- ja terveystieteiden ministeriö)
France	Local name	Alcool éthylique
France	VME (mg/m <sup>3</sup> )	1900 mg/m <sup>3</sup>
France	VME (ppm)	1000 ppm
France	VLE (mg/m <sup>3</sup> )	9500 mg/m <sup>3</sup>

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ethanol (64-17-5)		
France	VLE (ppm)	5000 ppm
France	Note (FR)	Valeurs recommandées/admises
France	Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Germany	TRGS 900 Local name	Ethanol
Germany	Occupational exposure limit value (mg/m <sup>3</sup> )	380 mg/m <sup>3</sup>
Germany	Occupational exposure limit value (ppm)	200 ppm
Germany	Limitation of exposure peaks	2(II)
Germany	TRGS 900 Remark	DFG;Y
Germany	TRGS 900 Regulatory reference	TRGS900
Germany	TRGS 910 Acceptable concentration notes	
Hungary	Local name	ETIL-ALKOHOL
Hungary	AK-érték	1900 mg/m <sup>3</sup>
Hungary	CK-érték	3800 mg/m <sup>3</sup>
Hungary	Megjegyzések (HU)	N (Irritáló anyagok, egyszerű fojtógázok, csekély egészségkárosító hatással bíró anyagok)
Hungary	Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
Ireland	OEL (15 min ref) (ppm)	1000 ppm
Latvia	Local name	Etilspirts (etanols)
Latvia	OEL TWA (mg/m <sup>3</sup> )	1000 mg/m <sup>3</sup>
Latvia	Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumi Nr. 325
Lithuania	IPRV (mg/m <sup>3</sup> )	1000 mg/m <sup>3</sup>
Lithuania	IPRV (ppm)	500 ppm
Lithuania	TPRV (mg/m <sup>3</sup> )	1900 mg/m <sup>3</sup>
Lithuania	TPRV (ppm)	1000 ppm
Netherlands	Local name	Ethanol
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	260 mg/m <sup>3</sup>
Netherlands	Grenswaarde TGG 15MIN (mg/m <sup>3</sup> )	1900 mg/m <sup>3</sup>
Netherlands	Remark (MAC)	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.
Netherlands	Regulatory reference	Arbeidsomstandighedenregeling 2020
Poland	Local name	Etanol (alkohol etylowy)
Poland	NDS (mg/m <sup>3</sup> )	1900 mg/m <sup>3</sup>
Poland	Regulatory reference	Dz. U. 2018 poz. 1286
Portugal	Local name	Etanol (Álcool etílico)
Portugal	OEL STEL (ppm)	1000 ppm
Slovakia	Regulatory reference	Norma Portuguesa NP 1796:2014
Slovakia	Local name	Etylalkohol (etanol)
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	960 mg/m <sup>3</sup>
Slovakia	NPHV (priemerná) (ppm)	500 ppm

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ethanol (64-17-5)		
Slovakia	OEL STEL (mg/m <sup>3</sup> )	1920 mg/m <sup>3</sup>
Slovakia	OEL STEL (ppm)	1000 ppm
Slovakia	Regulatory reference	Nariadenie vlády č. 33/2018 Z. z.
Slovenia	Local name	etanol (etilalkohol)
Slovenia	OEL TWA (mg/m <sup>3</sup> )	960 mg/m <sup>3</sup>
Slovenia	OEL TWA (ppm)	500 ppm
Slovenia	OEL STEL (mg/m <sup>3</sup> )	1920 mg/m <sup>3</sup>
Slovenia	OEL STEL (ppm)	1000 ppm
Slovenia	Remark (SI)	Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti)
Slovenia	Regulatory reference	Uradni list RS, št. 78/2019 z dne 20.12.2019
Spain	Local name	Etanol (Alcohol etílico)
Spain	VLA-ED (mg/m <sup>3</sup> )	1910 mg/m <sup>3</sup>
Spain	VLA-ED (ppm)	1000 ppm
Spain	VLA-EC (mg/m <sup>3</sup> )	1910 mg/m <sup>3</sup>
Spain	VLA-EC (ppm)	1000 ppm
Spain	Notes	s (Esta sustancia tiene prohibida total o parcialmente su comercialización y uso como fitosanitario y/o como biocida. Para una información detallada acerca de las prohibiciones consúltese: Base de datos de productos biocidas: <a href="http://www.msssi.gob.es/ciudadanos/productos.do?tipo=plaguicidas">http://www.msssi.gob.es/ciudadanos/productos.do?tipo=plaguicidas</a> Base de datos de productos fitosanitarios <a href="http://www.magrama.gob.es/agricultura/pags/fitos/registro/fichas/pdf/Lista_sa.pdf">http://www.magrama.gob.es/agricultura/pags/fitos/registro/fichas/pdf/Lista_sa.pdf</a> ).
Spain	Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
Sweden	Local name	Etanol
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	1000 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (ppm)	500 ppm
Sweden	kortidsvärde (KTV) (mg/m <sup>3</sup> )	1900 mg/m <sup>3</sup>
Sweden	kortidsvärde (KTV) (ppm)	1000 ppm
Sweden	Anmärkning (SE)	V (Vägledande kortidsgränsvärde ska användas som ett rekommenderat högsta värde som inte bör överskridas)
Sweden	Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	1920 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	1000 ppm
Norway	Local name	Etanol
Norway	Grenseverdier (AN) (mg/m <sup>3</sup> )	950 mg/m <sup>3</sup>
Norway	Grenseverdier (AN) (ppm)	500 ppm
Norway	Regulatory reference	FOR-2018-08-21-1255
Switzerland	VME (mg/m <sup>3</sup> )	960 mg/m <sup>3</sup>
Switzerland	MAK (ppm)	500 ppm
Switzerland	KZGW (mg/m <sup>3</sup> )	1920 mg/m <sup>3</sup>
Switzerland	KZGW (ppm)	1000 ppm

### Isopropanol (67-63-0)

Austria	MAK (mg/m <sup>3</sup> )	500 mg/m <sup>3</sup>
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Isopropanol (67-63-0)		
Austria	MAK (ppm)	200 ppm
Austria	MAK Short time value (mg/m <sup>3</sup> )	2000 mg/m <sup>3</sup> max. 4x15 min./Schicht
Austria	MAK Short time value (ppm)	800 ppm max. 4x15 min./Schicht
Belgium	Limit value (mg/m <sup>3</sup> )	500 mg/m <sup>3</sup>
Belgium	Limit value (ppm)	200 ppm
Belgium	Short time value (mg/m <sup>3</sup> )	1000 mg/m <sup>3</sup>
Belgium	Short time value (ppm)	400 ppm
Czech Republic	Local name	iso-Propanol (2-Propanol; iso-Propylalkohol)
Czech Republic	Expoziční limity (PEL) (mg/m <sup>3</sup> )	500 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (PEL) (ppm)	204 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m <sup>3</sup> )	1000 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (NPK-P) (ppm)	410 ppm
Czech Republic	Remark (CZ)	I (dráždí sliznice (oči, dýchací cesty) resp. kůži)
Czech Republic	Regulatory reference	Nařízení vlády č. 361/2007 Sb. (zpracovány změny č. 246/2018 Sb.)
Denmark	Local name	Isopropylalkohol (Isopropanol; 2-Propanol; sec-Propylalkohol)
Denmark	Grænsevædi (8 timer) (mg/m <sup>3</sup> )	490 mg/m <sup>3</sup>
Denmark	Grænsevædi (8 timer) (ppm)	200 ppm
Denmark	Grænsevædi (STEL) (mg/m <sup>3</sup> )	980 mg/m <sup>3</sup>
Denmark	Grænsevædi (STEL) (ppm)	400 ppm
Denmark	Regulatory reference	BEK nr 1458 af 13/12/2019
Finland	Local name	2-Propanoli
Finland	HTP-arvo (8h) (mg/m <sup>3</sup> )	500 mg/m <sup>3</sup>
Finland	HTP-arvo (8h) (ppm)	200 ppm
Finland	HTP-arvo (15 min)	620 mg/m <sup>3</sup>
Finland	HTP-arvo (15 min) (ppm)	250 ppm
France	Local name	Alcool isopropylique
France	VLE (mg/m <sup>3</sup> )	980 mg/m <sup>3</sup>
France	VLE (ppm)	400 ppm
France	Note (FR)	Valeurs recommandées/admises
France	Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Germany	TRGS 900 Local name	Propan-2-ol
Germany	Occupational exposure limit value (mg/m <sup>3</sup> )	500 mg/m <sup>3</sup>
Germany	Occupational exposure limit value (ppm)	200 ppm
Germany	Limitation of exposure peaks	2(II)
Germany	TRGS 900 Remark	DFG;Y
Germany	TRGS 900 Regulatory reference	TRGS900
Germany	TRGS 903 Biological limit value	50 mg/l Aceton (Blut; Expositionsende bzw. Schichtende)
Germany	TRGS 910 Acceptable concentration notes	
Hungary	Local name	IZOPROPIL-ALKOHOL
Hungary	AK-érték	500 mg/m <sup>3</sup>
Hungary	CK-érték	1000 mg/m <sup>3</sup>
Hungary	Megjegyzések (HU)	b (Bőrön át is felszívódik), i (ingerlő anyag, amely

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Isopropanol (67-63-0)		
		izgatja a bőrt, nyálkahártyát, szemet vagy mindhármat); R (Azok az anyagok, amelyek egészségkárosító hatása RÖVID expozíció hatására jelentkeznek)
Hungary	Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitétt munkavállalók egészségének és biztonságának védelméről
Ireland	OEL (8 hours ref) (ppm)	200 ppm
Ireland	OEL (15 min ref) (ppm)	400 ppm
Ireland	Notes (IE)	Sk
Latvia	Local name	Izopropanols (2-propanols, izopropilspirts, 1-metil-1-etanols)
Latvia	OEL TWA (mg/m <sup>3</sup> )	350 mg/m <sup>3</sup>
Latvia	OEL STEL (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
Latvia	Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumi Nr. 325 (Grozījumi Ministru kabineta 2011. gada 1. februārī noteikumi Nr. 92)
Lithuania	IPRV (mg/m <sup>3</sup> )	350 mg/m <sup>3</sup>
Lithuania	IPRV (ppm)	150 ppm
Lithuania	TPRV (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
Lithuania	TPRV (ppm)	250 ppm
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	650 mg/m <sup>3</sup>
Netherlands	Grenswaarde TGG 8H (ppm)	250 ppm
Poland	Local name	Propan-2-ol (izopropylowy alkohol)
Poland	NDS (mg/m <sup>3</sup> )	900 mg/m <sup>3</sup>
Poland	NDSch (mg/m <sup>3</sup> )	1200 mg/m <sup>3</sup>
Poland	Remark (PL)	Skóra (Oznakowanie substancji notacją „skóra” oznacza, że wchłanianie substancji przez skórę może być tak samo istotne jak przy narażeniu drogą oddechową).
Poland	Regulatory reference	Dz. U. 2018 poz. 1286
Portugal	Local name	2-Propanol (isopropanol ou álcool isopropílico)
Portugal	OEL TWA (ppm)	200 ppm
Portugal	OEL STEL (ppm)	400 ppm
Portugal	Portugal (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)
Slovakia	Regulatory reference	Norma Portuguesa NP 1796:2014
Slovakia	Local name	Izopropylalkohol (propán-2-ol)
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	500 mg/m <sup>3</sup>
Slovakia	NPHV (priemerná) (ppm)	200 ppm
Slovakia	OEL STEL (mg/m <sup>3</sup> )	1000 mg/m <sup>3</sup>
Slovakia	OEL STEL (ppm)	400 ppm
Slovakia	Regulatory reference	Nariadenie vlády č. 33/2018 Z. z.
Slovenia	Local name	propan-2-ol (izopropilalkohol; izopropanol)
Slovenia	OEL TWA (mg/m <sup>3</sup> )	500 mg/m <sup>3</sup>
Slovenia	OEL TWA (ppm)	200 ppm
Slovenia	OEL STEL (mg/m <sup>3</sup> )	1000 mg/m <sup>3</sup>
Slovenia	OEL STEL (ppm)	400 ppm
Slovenia	Remark (SI)	Y (Snovi, pri katerih ni nevarnosti za zarodek ob

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Isopropanol (67-63-0)		
		upoštevanju mejnih vrednosti in bat vrednosti), BAT (Biološka mejna vrednost)
Slovenia	Regulatory reference	Uradni list RS, št. 78/2019 z dne 20.12.2019
Spain	Local name	Isopropanol (Alcohol isopropílico)
Spain	VLA-ED (mg/m <sup>3</sup> )	500 mg/m <sup>3</sup>
Spain	VLA-ED (ppm)	200 ppm
Spain	VLA-EC (mg/m <sup>3</sup> )	1000 mg/m <sup>3</sup>
Spain	VLA-EC (ppm)	400 ppm
Spain	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: <a href="http://www.msssi.gob.es/ciudadanos/productos.do?tipo=plaguicidas">http://www.msssi.gob.es/ciudadanos/productos.do?tipo=plaguicidas</a> Base de datos de productos fitosanitarios <a href="http://www.magrama.gob.es/agricultura/pags/fitos/registro/fichas/pdf/Lista_sa.pdf">http://www.magrama.gob.es/agricultura/pags/fitos/registro/fichas/pdf/Lista_sa.pdf</a> ).
Spain		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)
Spain	Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
Sweden	Local name	Isopropanol
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	350 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (ppm)	150 ppm
Sweden	kortidsvärde (KTV) (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
Sweden	kortidsvärde (KTV) (ppm)	250 ppm
Sweden	Anmärkning (SE)	V (Vägledande korttidsgränsvärde ska användas som ett rekommenderat högsta värde som inte bör överskridas)
Sweden	Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	999 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	400 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	1250 mg/m <sup>3</sup>
United Kingdom	WEL STEL (ppm)	500 ppm
Norway	Local name	2-propanol (Isopropanol)
Norway	Grenseverdier (AN) (mg/m <sup>3</sup> )	245 mg/m <sup>3</sup>
Norway	Grenseverdier (AN) (ppm)	100 ppm
Norway	Regulatory reference	FOR-2018-08-21-1255
Switzerland	VME (mg/m <sup>3</sup> )	500 mg/m <sup>3</sup>
Switzerland	MAK (ppm)	200 ppm 25 ppm acetone (urina; fine dell'esposizione / del turno) 25 ppm acetone (sangue; fine dell'esposizione / del turno)
Switzerland	KZGW (mg/m <sup>3</sup> )	1000 mg/m <sup>3</sup> max. 4x15 min./turno
Switzerland	KZGW (ppm)	400 ppm max. 4x15 min./turno



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propyl acetate (109-60-4)		
Austria	Remark (AT)	(gemessen als Momentanwert)
Czech Republic	Local name	n-Propylacetát
Czech Republic	Expoziční limity (PEL) (mg/m <sup>3</sup> )	800 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (PEL) (ppm)	190 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m <sup>3</sup> )	1000 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (NPK-P) (ppm)	240 ppm
Czech Republic	Remark (CZ)	I
Denmark	Local name	n-Propylacetat
Denmark	Grænsevædi (8 timer) (mg/m <sup>3</sup> )	625 mg/m <sup>3</sup>
Denmark	Grænsevædi (8 timer) (ppm)	150 ppm
Denmark	Grænsevædi (STEL) (mg/m <sup>3</sup> )	1250 mg/m <sup>3</sup>
Denmark	Grænsevædi (STEL) (ppm)	300 ppm
Finland	Local name	1-Propyyliasettaatti
Finland	HTP-arvo (8h) (mg/m <sup>3</sup> )	420 mg/m <sup>3</sup>
Finland	HTP-arvo (8h) (ppm)	100 ppm
Finland	HTP-arvo (15 min)	850 mg/m <sup>3</sup>
Finland	HTP-arvo (15 min) (ppm)	200 ppm
France	Local name	Acétate de n-propyle
France	VME (mg/m <sup>3</sup> )	840 mg/m <sup>3</sup>
France	VME (ppm)	200 ppm
France	Note (FR)	Valeurs recommandées/admises
Germany	TRGS 910 Acceptable concentration notes	
Hungary	Local name	PROPIL-ACETÁT
Hungary	AK-érték	840 mg/m <sup>3</sup>
Hungary	CK-érték	840 mg/m <sup>3</sup>
Hungary	Megjegyzések (HU)	b, i; I.
Latvia	Local name	Propilacetāts (etiķskābespropilesteris)
Latvia	OEL TWA (mg/m <sup>3</sup> )	200 mg/m <sup>3</sup>
Poland	Local name	Octan propylu
Poland	NDS (mg/m <sup>3</sup> )	200 mg/m <sup>3</sup>
Poland	NDSch (mg/m <sup>3</sup> )	400 mg/m <sup>3</sup>
Portugal	Local name	Acetato de n-propilo
Portugal	OEL TWA (ppm)	200 ppm
Portugal	OEL STEL (ppm)	250 ppm
Slovakia	Local name	Propylacetát (octan propylový)
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	400 mg/m <sup>3</sup>
Slovakia	NPHV (priemerná) (ppm)	100 ppm
Slovakia	OEL STEL (mg/m <sup>3</sup> )	800 mg/m <sup>3</sup>
Slovakia	OEL STEL (ppm)	200 ppm
Slovenia	Local name	propilacetat
Slovenia	OEL TWA (mg/m <sup>3</sup> )	420 mg/m <sup>3</sup>
Slovenia	OEL TWA (ppm)	100 ppm
Slovenia	OEL STEL (mg/m <sup>3</sup> )	420 mg/m <sup>3</sup>
Slovenia	OEL STEL (ppm)	100 ppm

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propyl acetate (109-60-4)		
Spain	Local name	Acetato de n-propilo
Spain	VLA-ED (mg/m <sup>3</sup> )	849 mg/m <sup>3</sup>
Spain	VLA-ED (ppm)	200 ppm
Spain	VLA-EC (mg/m <sup>3</sup> )	1060 mg/m <sup>3</sup>
Spain	VLA-EC (ppm)	250 ppm
Sweden	Local name	Propylacetat
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	400 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (ppm)	100 ppm
Sweden	kortidsvärde (KTV) (mg/m <sup>3</sup> )	800 mg/m <sup>3</sup>
Sweden	kortidsvärde (KTV) (ppm)	200 ppm
Sweden	Anmärkning (SE)	V (Vägledande kortidsgränsvärde ska användas som ett rekommenderat högsta värde som inte bör överskridas)
Norway	Local name	n-propylacetat
Norway	Grenseverdier (AN) (mg/m <sup>3</sup> )	420 mg/m <sup>3</sup>
Norway	Grenseverdier (AN) (ppm)	100 ppm

### 8.2. Exposure controls

#### Appropriate engineering controls:

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

#### Personal protective equipment:

Avoid all unnecessary exposure.

#### Hand protection:

In case of repeated or prolonged contact wear gloves. EN374

#### Eye protection:

Chemical goggles or safety glasses. EN166

#### Respiratory protection:

None under normal use

#### Consumer exposure controls:

Keep out of reach of children.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

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

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Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

### 9.2. Other information

VOC content	: 50 – 60 %
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## 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, CO<sub>2</sub>).

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

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

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

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

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

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

#### Ethyl acetate (141-78-6)

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

#### Butyl acetate (123-86-4)

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

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

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

#### 2-methoxypropyl acetate (70657-70-4)

LC50 inhalation rat (ppm)	2700 ppm 6 h
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#### 2-methylpropan-1-ol (78-83-1)

LD50 oral rat	3350 mg/kg
LD50 dermal rabbit	2460 mg/kg
LC50 inhalation rat (mg/l)	24.6 mg/l/4h

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### Carbon black (1333-86-4)

LD50 oral rat	> 8000 mg/kg
LC50 inhalation rat (mg/l)	> 4.6 mg/m <sup>3</sup> 4 h

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

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

### ethanol (64-17-5)

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

### Isopropanol (67-63-0)

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

### propyl acetate (109-60-4)

LD50 oral rat	8700 mg/kg
LD50 dermal rabbit	> 17800 mg/kg
LC50 inhalation rat (mg/l)	32 mg/l/4h

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 (Based on available data, the classification criteria are not met)

### Carbon black (1333-86-4)

IARC group	2B - Possibly carcinogenic to humans, Inhalation of dust
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### ethanol (64-17-5)

IARC group	1 - Carcinogenic to humans, Alcoholic beverages
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### Isopropanol (67-63-0)

IARC group	3 - Not classifiable
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Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
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### 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.
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)

### Ethyl acetate (141-78-6)

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

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

### 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	< 9.35 mg/l

#### 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
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#### propyl acetate (109-60-4)

LC50 fish 1	60 mg/l 96 h
EC50 crustacea	91.5 mg/l 48 h

#### 12.2. Persistence and degradability

##### Paint-Riter™ + Aerospace Black

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.

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

Persistence and degradability	Readily biodegradable.
Biodegradation	89 % 10 d

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

Biodegradation	70 (70 – 80) % 28 d
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### Carbon black (1333-86-4)

Persistence and degradability	Not readily biodegradable.
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### (2-Methoxymethylethoxy)-propanol (34590-94-8)

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

### ethanol (64-17-5)

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

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

Persistence and degradability	Readily biodegradable.
Biodegradation	62 % 5 d

### 12.3. Bioaccumulative potential

#### Paint-Riter™ + Aerospace Black

Log Pow	0.7
Bioaccumulative potential	Not established.

### 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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### 12.4. Mobility in soil

#### Paint-Riter™ + Aerospace Black

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

#### Paint-Riter™ + Aerospace Black

PBT: not yet assessed

vPvB: not yet assessed

### 12.6. Other adverse effects

Additional information : No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Sewage disposal recommendations	: Do not dispose of waste into sewer.
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Additional information	: Handle empty containers with care because residual vapours are flammable.
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 / RID / IMDG / IATA / ADN

### 14.1. UN number

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

### 14.2. UN proper shipping name

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

### 14.3. Transport hazard class(es)

#### ADR

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

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### IMDG

Transport hazard class(es) (IMDG) : 3

Danger labels (IMDG) : 3



### IATA

Transport hazard class(es) (IATA) : 3

Danger labels (IATA) : 3



### ADN

Transport hazard class(es) (ADN) : 3

Danger labels (ADN) : 3



### RID

Transport hazard class(es) (RID) : 3

Danger labels (RID) : 3



### 14.4. Packing group

Packing group (ADR) : III

Packing group (IMDG) : III

Packing group (IATA) : III

Packing group (ADN) : III

Packing group (RID) : III

### 14.5. Environmental hazards

Dangerous for the environment : No

Marine pollutant : No

Other information : No supplementary information available

### 14.6. Special precautions for user

#### Overland transport

Classification code (ADR) : F1

Special provisions (ADR) : 163, 367, 650

Limited quantities (ADR) : 5I

Excepted quantities (ADR) : E1

Packing instructions (ADR) : P001, IBC03, LP01, R001

Special packing provisions (ADR) : PP1

Mixed packing provisions (ADR) : MP19



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Portable tank and bulk container instructions (ADR)	: T2
Portable tank and bulk container special provisions (ADR)	: TP1, TP29
Tank code (ADR)	: LGBF
Vehicle for tank carriage	: FL
Transport category (ADR)	: 3
Special provisions for carriage - Packages (ADR)	: V12
Special provisions for carriage - Operation (ADR)	: S2
Hazard identification number (Kemler No.)	: 30
Orange plates	:



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

### Transport by sea

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

### Air transport

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

### Inland waterway transport

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

### Rail transport

Classification code (RID)	: F1
Special provisions (RID)	: 163, 367, 650
Limited quantities (RID)	: 5L
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P001, IBC03, LP01, R001
Special packing provisions (RID)	: PP1
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T2
Portable tank and bulk container special provisions (RID)	: TP1, TP29
Tank codes for RID tanks (RID)	: LGBF

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Transport category (RID)	: 3
Special provisions for carriage – Packages (RID)	: W12
Colis express (express parcels) (RID)	: CE4
Hazard identification number (RID)	: 30

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3(a) 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	Paint-Riter™ + Aerospace Black ; 1-Methoxy-2-propanol ; Ethyl acetate ; Butyl acetate ; 2-methoxy-1-methylethyl acetate ; 2-methoxypropyl acetate ; 2-methylpropan-1-ol ; ethanol ; Isopropanol ; propyl acetate
3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	Paint-Riter™ + Aerospace Black ; 1-Methoxy-2-propanol ; Ethyl acetate ; Butyl acetate ; 2-methoxypropyl acetate ; 2-methylpropan-1-ol ; Isopropanol ; propyl acetate
30. 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.	2-methoxypropyl acetate
40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.	Paint-Riter™ + Aerospace Black ; 1-Methoxy-2-propanol ; Ethyl acetate ; Butyl acetate ; 2-methoxy-1-methylethyl acetate ; 2-methoxypropyl acetate ; 2-methylpropan-1-ol ; ethanol ; Isopropanol ; propyl acetate

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

VOC content : 50 – 60 %

#### 15.1.2. National regulations

##### Germany

VwVwS Annex reference : 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)

Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG)  
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG)

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

##### Netherlands

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

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

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

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

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

##### Denmark

Class for fire hazard : Class II-1

Store unit : 5 liter

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Classification remarks	: R10 <H226;H317;H319;H336>; Emergency management guidelines for the storage of flammable liquids must be followed
Danish National Regulations	: Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with the product The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

### Abbreviations and acronyms:

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

Data sources : ESIS (European chemical Substances Information System; accessed at: <http://esis.jrc.ec.europa.eu/index.php?PGM=cla>. European Chemicals Agency (ECHA) C&L Inventory database. Accessed at <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>.  
Kristen 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:

Aquatic Chronic 4	Hazardous to the aquatic environment — Chronic Hazard, Category 4
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
Repr. 1B	Reproductive toxicity, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1B	Skin sensitisation, category 1B
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
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.
H360D	May damage the unborn child.
H413	May cause long lasting harmful effects to aquatic life.

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

Flam. Liq. 3	H226	On basis of test data
Eye Irrit. 2	H319	Calculation method
Skin Sens. 1B	H317	Expert judgment
STOT SE 3	H336	Calculation method

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