



# SAFETY DATA SHEET

Version #: 1,1 Issue date: 17-July-2020 Supersedes date: 08-March-2022 Revision date: 09-March-2022

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

### 1.1. Product identifier

**Trade name or designation of the mixture** Industrial degreaser

**Registration number** -

**Product registration number**

**Denmark** PR-nr 1937963

**Norway** P-316173

**UFI:**

Austria: KC9X-18Q2-G003-PNVY  
Belgium: KC9X-18Q2-G003-PNVY  
Bulgaria: KC9X-18Q2-G003-PNVY  
Croatia: KC9X-18Q2-G003-PNVY  
Cyprus: KC9X-18Q2-G003-PNVY  
Czech Republic: KC9X-18Q2-G003-PNVY  
Denmark: KC9X-18Q2-G003-PNVY  
Estonia: KC9X-18Q2-G003-PNVY  
EU: KC9X-18Q2-G003-PNVY  
Finland: KC9X-18Q2-G003-PNVY  
France: KC9X-18Q2-G003-PNVY  
Germany: KC9X-18Q2-G003-PNVY  
Great Britain: KC9X-18Q2-G003-PNVY  
Greece: KC9X-18Q2-G003-PNVY  
Hungary: KC9X-18Q2-G003-PNVY  
Iceland: KC9X-18Q2-G003-PNVY  
Italy: KC9X-18Q2-G003-PNVY  
Latvia: KC9X-18Q2-G003-PNVY  
Lithuania: KC9X-18Q2-G003-PNVY  
Luxembourg: KC9X-18Q2-G003-PNVY  
Malta: KC9X-18Q2-G003-PNVY  
Netherlands: KC9X-18Q2-G003-PNVY  
Norway: KC9X-18Q2-G003-PNVY  
Poland: KC9X-18Q2-G003-PNVY  
Portugal: KC9X-18Q2-G003-PNVY  
Romania: KC9X-18Q2-G003-PNVY  
Slovakia: KC9X-18Q2-G003-PNVY  
Slovenia: KC9X-18Q2-G003-PNVY  
Spain: KC9X-18Q2-G003-PNVY  
Sweden: KC9X-18Q2-G003-PNVY

**Synonyms** None.

**Product code** BDS000273AE

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

**Identified uses** Cleaners - Heavy duty

**Uses advised against** None known.

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

**Company name** CRC Industries Europe bv

**Address** Touwslagerstraat 1  
9240 Zele  
Belgium

**Telephone** +32(0)52/45.60.11

**Fax** +32(0)52/45.00.34

**E-mail** hse@crcind.com

**Website** www.crcind.com

**1.4. Emergency telephone number** Tel.: +32(0)52/45.60.11 (office hours: 9-17h CET)

**General in EU** 112 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

**Austria National Poisons Information Centre** +431 406 4343 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

<b>Belgium National Poisons Control Center</b>	070 245 245 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
<b>Bulgaria National Toxicological Information Centre</b>	+359 2 9154233 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
<b>Czech Republic National Poisons Information Centre</b>	+420 224 919 293, or +420 224 915 402 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)
<b>Denmark National Poisons Control Center</b>	+45 82 12 12 12 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
<b>Estonia National Poisons Information Centre</b>	16662 or abroad: (+372) 626 9390 (Monday 9:00AM to Saturday 9:00AM (closed on Sundays and on national holidays). SDS/Product information may not be available for the Emergency Service.)
<b>Finland National Poison Information Center</b>	(09) 471 977 (direct) or (09) 4711 (exchange) (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
<b>France National Poisons Control Center</b>	ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
<b>Hungary National Emergency Phone Number</b>	36 80 20 11 99 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
<b>Lithuania Neatidėliotina informacija apsinuodijus</b>	+370 5 236 20 52 or +37068753378 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)
<b>Malta Accident and Emergency Department</b>	2545 4030 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)
<b>Netherlands National Poisons Information Center (NVIC)</b>	030-274 88 88 (Only for the purpose of informing medical personnel in cases of acute intoxications)
<b>Norway Norwegian Poison Information Center</b>	22 59 13 00 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
<b>Portugal Poison Centre</b>	800 250 250 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
<b>Romania Număr de telefon care poate fi apelat în caz de urgență:</b>	021 5992300, int. 291 Spitalul Clinic de Urgență București: spital@urgentaflorasca.ro
<b>Romania</b>	0265 212111, 0265 211292, 0265 217235 Spitalul Clinic Județean de Urgență Târgu Mureș: secretariat@spitjudms.ro
<b>Slovakia National Toxicological Information Centre</b>	+421 2 5477 4166 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
<b>Sweden National Poison Information Center</b>	112 - and ask for Poison Information (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
<b>Switzerland Tox Info Suisse</b>	145 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

#### Classification according to Regulation (EC) No 1272/2008 as amended

##### Physical hazards

Aerosols

Category 1

H222 - Extremely flammable aerosol.  
H229 - Pressurized container: May burst if heated.

##### Health hazards

Specific target organ toxicity - single exposure

Category 3 narcotic effects

H336 - May cause drowsiness or dizziness.

### 2.2. Label elements

**Label according to Regulation (EC) No. 1272/2008 as amended****Contains:** 2-Methoxy-1-methylethyl acetate, Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics**Hazard pictograms****Signal word** Danger**Hazard statements**

H222 Extremely flammable aerosol.  
 H229 Pressurized container: May burst if heated.  
 H336 May cause drowsiness or dizziness.

**Precautionary statements****Prevention**

P102 Keep out of reach of children.  
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P211 Do not spray on an open flame or other ignition source.  
 P251 Do not pierce or burn, even after use.  
 P261 Avoid breathing mist/vapours.  
 P271 Use only outdoors or in a well-ventilated area.

**Response** Not assigned.**Storage**

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

**Disposal**

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Supplemental label information**EUH066 - Repeated exposure may cause skin dryness or cracking.  
Regulation (EC) No 648/2004 on detergents: aliphatic hydrocarbons > 30 %**2.3. Other hazards**

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII. The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****General information**

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	50 - 75	EC919-857-5 919-857-5	01-2119463258-33	-	
<b>Classification:</b> Flam. Liq. 3;H226, STOT SE 3;H336, Asp. Tox. 1;H304					
1-METHOXY-2-PROPANOL; MONOPROPYLENE GLYCOL METHYL ETHER	10 - 25	107-98-2 203-539-1	01-2119457435-35	603-064-00-3	#
<b>Classification:</b> Flam. Liq. 3;H226, STOT SE 3;H336					
2-Methoxy-1-methylethyl acetate	10 - 25	108-65-6 203-603-9	01-2119475791-29	607-195-00-7	#
<b>Classification:</b> Flam. Liq. 3;H226, STOT SE 3;H336					
Carbon dioxide	1 - 5	124-38-9 204-696-9	-	-	#
<b>Classification:</b> Press. Gas;H280					
Butan-2-ol	<5	78-92-2 201-158-5	01-2119475146-36	603-127-00-5	
<b>Classification:</b> Flam. Liq. 3;H226, Eye Irrit. 2;H319, STOT SE 3;H335;H336					

**List of abbreviations and symbols that may be used above**

#: This substance has been assigned Union workplace exposure limit(s).  
 ATE: Acute toxicity estimate.  
 M: M-factor  
 PBT: persistent, bioaccumulative and toxic substance.  
 vPvB: very persistent and very bioaccumulative substance.  
 All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

**Composition comments** The full text for all H-statements is displayed in section 16.

## SECTION 4: First aid measures

<b>General information</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
<b>4.1. Description of first aid measures</b>	
<b>Inhalation</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison centre or doctor/physician if you feel unwell.
<b>Skin contact</b>	Wash off with soap and water. Get medical attention if irritation develops and persists.
<b>Eye contact</b>	Rinse with water. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	In the unlikely event of swallowing contact a physician or poison control centre.
<b>4.2. Most important symptoms and effects, both acute and delayed</b>	May cause drowsiness or dizziness. Headache. Nausea, vomiting.
<b>4.3. Indication of any immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

## SECTION 5: Firefighting measures

<b>General fire hazards</b>	Extremely flammable aerosol.
<b>5.1. Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Alcohol resistant foam. Powder. Carbon dioxide (CO <sub>2</sub> ).
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>5.2. Special hazards arising from the substance or mixture</b>	Contents under pressure. Pressurised container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.
<b>5.3. Advice for firefighters</b>	
<b>Special protective equipment for firefighters</b>	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
<b>Special fire fighting procedures</b>	Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapour pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials. In the event of fire and/or explosion do not breathe fumes.

## SECTION 6: Accidental release measures

<b>6.1. Personal precautions, protective equipment and emergency procedures</b>	
<b>For non-emergency personnel</b>	Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapours. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
<b>For emergency responders</b>	Avoid breathing mist/vapours. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
<b>6.2. Environmental precautions</b>	Avoid discharge into drains, water courses or onto the ground.
<b>6.3. Methods and material for containment and cleaning up</b>	Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil etc) away from spilled material. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.  Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
<b>6.4. Reference to other sections</b>	For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

## SECTION 7: Handling and storage

<b>7.1. Precautions for safe handling</b>	Pressurised container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Avoid breathing mist/vapours. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
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**7.2. Conditions for safe storage, including any incompatibilities**

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store away from incompatible materials (see Section 10 of the SDS). Storage class (TRGS 510): 2B (Aerosol dispensers and lighters)

**7.3. Specific end use(s)**

Not available.

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Occupational exposure limits**

**Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001**

<b>Components</b>	<b>Type</b>	<b>Value</b>
1-METHOXY-2-PROPANOL ; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2)	Ceiling	187 mg/m3
		50 ppm
	MAK	187 mg/m3
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)		50 ppm
	Ceiling	550 mg/m3
	MAK	275 mg/m3
Butan-2-ol (CAS 78-92-2)		50 ppm
	MAK	150 mg/m3
	STEL	600 mg/m3
Carbon dioxide (CAS 124-38-9)		200 ppm
	Ceiling	18000 mg/m3
	MAK	9000 mg/m3

**Belgium. Exposure Limit Values**

<b>Components</b>	<b>Type</b>	<b>Value</b>
1-METHOXY-2-PROPANOL ; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2)	STEL	369 mg/m3
		100 ppm
	TWA	184 mg/m3
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)		50 ppm
	STEL	550 mg/m3
	TWA	275 mg/m3
Butan-2-ol (CAS 78-92-2)		50 ppm
	TWA	307 mg/m3
		100 ppm
Carbon dioxide (CAS 124-38-9)	STEL	54784 mg/m3
		30000 ppm
	TWA	9131 mg/m3

**Bulgaria. OELs. Regulation No 13 on protection of workers against risks of exposure to chemical agents at work**

Components	Type	Value
1-METHOXY-2-PROPANOL ; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2)	STEL	568 mg/m <sup>3</sup>
		150 ppm
	TWA	375 mg/m <sup>3</sup>
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	STEL	100 ppm
		550 mg/m <sup>3</sup>
	TWA	275 mg/m <sup>3</sup>
Carbon dioxide (CAS 124-38-9)	TWA	50 ppm
		9000 mg/m <sup>3</sup>
		5000 ppm

**Croatia. Dangerous Substance Exposure Limit Values in the Workplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09**

Components	Type	Value
1-METHOXY-2-PROPANOL ; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2)	MAC	375 mg/m <sup>3</sup>
		100 ppm
	STEL	568 mg/m <sup>3</sup>
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	MAC	150 ppm
		275 mg/m <sup>3</sup>
	STEL	50 ppm
Butan-2-ol (CAS 78-92-2)	MAC	550 mg/m <sup>3</sup>
		100 ppm
	STEL	308 mg/m <sup>3</sup>
Carbon dioxide (CAS 124-38-9)	MAC	100 ppm
		462 mg/m <sup>3</sup>
		150 ppm
	MAC	9000 mg/m <sup>3</sup>
		5000 ppm

**Czech Republic. OELs. Government Decree 361**

Components	Type	Value
1-METHOXY-2-PROPANOL ; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2)	Ceiling	550 mg/m <sup>3</sup>
	TWA	270 mg/m <sup>3</sup>
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	Ceiling	550 mg/m <sup>3</sup>
	TWA	270 mg/m <sup>3</sup>
Butan-2-ol (CAS 78-92-2)	Ceiling	600 mg/m <sup>3</sup>
	TWA	300 mg/m <sup>3</sup>
Carbon dioxide (CAS 124-38-9)	Ceiling	45000 mg/m <sup>3</sup>
	TWA	9000 mg/m <sup>3</sup>

<b>Denmark</b>		
<b>Components</b>	<b>Type</b>	<b>Value</b>
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	TWA	25 ppm
<b>Denmark. Exposure Limit Values</b>		
<b>Components</b>	<b>Type</b>	<b>Value</b>
1-METHOXY-2-PROPANOL ; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2)	TLV	185 mg/m3
		50 ppm
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	TLV	275 mg/m3
		50 ppm
Butan-2-ol (CAS 78-92-2)	Ceiling	150 mg/m3
		50 ppm
Carbon dioxide (CAS 124-38-9)	TLV	9000 mg/m3
		5000 ppm
<b>Estonia. OELs. Occupational Exposure Limits of Hazardous Substances (Regulation No. 105/2001, Annex), as amended</b>		
<b>Components</b>	<b>Type</b>	<b>Value</b>
1-METHOXY-2-PROPANOL ; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2)	STEL	568 mg/m3
		150 ppm
	TWA	375 mg/m3
		100 ppm
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	STEL	550 mg/m3
		100 ppm
	TWA	275 mg/m3
		50 ppm
Butan-2-ol (CAS 78-92-2)	STEL	250 mg/m3
		75 ppm
	TWA	150 mg/m3
		50 ppm
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3
		5000 ppm
<b>Finland</b>		
<b>Components</b>	<b>Type</b>	<b>Value</b>
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	TWA	500 mg/m3
<b>Finland. Workplace Exposure Limits</b>		
<b>Components</b>	<b>Type</b>	<b>Value</b>
1-METHOXY-2-PROPANOL ; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2)	STEL	560 mg/m3
		150 ppm
	TWA	370 mg/m3
		100 ppm
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	STEL	550 mg/m3
		100 ppm

**Finland. Workplace Exposure Limits**

Components	Type	Value
Butan-2-ol (CAS 78-92-2)	TWA	270 mg/m <sup>3</sup> 50 ppm
	STEL	230 mg/m <sup>3</sup> 75 ppm
Carbon dioxide (CAS 124-38-9)	TWA	150 mg/m <sup>3</sup> 50 ppm
	TWA	9100 mg/m <sup>3</sup> 5000 ppm

**France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984**

Components	Type	Value
1-METHOXY-2-PROPANOL ; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2)	VLE	375 mg/m <sup>3</sup>
<b>Regulatory status:</b> Regulatory binding (VRC)		100 ppm
<b>Regulatory status:</b> Regulatory binding (VRC) VME		188 mg/m <sup>3</sup>
<b>Regulatory status:</b> Regulatory binding (VRC)		50 ppm
<b>Regulatory status:</b> Regulatory binding (VRC)		50 ppm
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	VLE	550 mg/m <sup>3</sup>
<b>Regulatory status:</b> Regulatory binding (VRC)		100 ppm
<b>Regulatory status:</b> Regulatory binding (VRC) VME		275 mg/m <sup>3</sup>
<b>Regulatory status:</b> Regulatory binding (VRC)		50 ppm
<b>Regulatory status:</b> Regulatory binding (VRC)		50 ppm
Butan-2-ol (CAS 78-92-2)	VME	300 mg/m <sup>3</sup>
<b>Regulatory status:</b> Indicative limit (VL)		100 ppm
<b>Regulatory status:</b> Indicative limit (VL)		100 ppm
Carbon dioxide (CAS 124-38-9)	VME	9000 mg/m <sup>3</sup>
<b>Regulatory status:</b> Regulatory indicative (VRI)		5000 ppm
<b>Regulatory status:</b> Regulatory indicative (VRI)		5000 ppm

**Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)**

Components	Type	Value
1-METHOXY-2-PROPANOL ; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2)	TWA	370 mg/m <sup>3</sup> 100 ppm
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	TWA	270 mg/m <sup>3</sup> 50 ppm
Carbon dioxide (CAS 124-38-9)	TWA	9100 mg/m <sup>3</sup> 5000 ppm

**Germany - TRGS 900**

Components	Type	Value
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	TWA	300 mg/m3

**Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace**

Components	Type	Value
1-METHOXY-2-PROPANOL ; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2)	AGW	370 mg/m3 100 ppm
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	AGW	270 mg/m3 50 ppm
Carbon dioxide (CAS 124-38-9)	AGW	9100 mg/m3 5000 ppm

**Greece. OELs (Decree No. 90/1999, as amended)**

Components	Type	Value
1-METHOXY-2-PROPANOL ; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2)	STEL	1080 mg/m3 300 ppm
	TWA	360 mg/m3 100 ppm
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	STEL	550 mg/m3 100 ppm
	TWA	275 mg/m3 50 ppm
Butan-2-ol (CAS 78-92-2)	STEL	450 mg/m3 150 ppm
	TWA	300 mg/m3 100 ppm
Carbon dioxide (CAS 124-38-9)	STEL	54000 mg/m3 5000 ppm
	TWA	9000 mg/m3 5000 ppm

**Hungary. OELs. Joint Decree on Chemical Safety of Workplaces**

Components	Type	Value
1-METHOXY-2-PROPANOL ; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2)	STEL	568 mg/m3
	TWA	375 mg/m3
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	STEL	550 mg/m3
	TWA	275 mg/m3
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3

**Iceland. OELs. Regulation 154/1999 on occupational exposure limits**

<b>Components</b>	<b>Type</b>	<b>Value</b>
1-METHOXY-2-PROPANOL ; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2)	STEL	568 mg/m3
		150 ppm
	TWA	185 mg/m3 50 ppm
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	STEL	550 mg/m3
		100 ppm
	TWA	275 mg/m3 50 ppm
Butan-2-ol (CAS 78-92-2)	STEL	150 mg/m3 50 ppm
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3 5000 ppm

**Ireland. Occupational Exposure Limits**

<b>Components</b>	<b>Type</b>	<b>Value</b>
1-METHOXY-2-PROPANOL ; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2)	STEL	568 mg/m3
		150 ppm
	TWA	375 mg/m3 100 ppm
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	STEL	550 mg/m3
		100 ppm
	TWA	275 mg/m3 50 ppm
Butan-2-ol (CAS 78-92-2)	STEL	450 mg/m3 150 ppm
	TWA	300 mg/m3 100 ppm
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3 5000 ppm

**Italy. Occupational Exposure Limits**

<b>Components</b>	<b>Type</b>	<b>Value</b>
1-METHOXY-2-PROPANOL ; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2)	STEL	568 mg/m3
		150 ppm
	TWA	375 mg/m3 100 ppm
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	STEL	550 mg/m3
		100 ppm
	TWA	275 mg/m3 50 ppm
Butan-2-ol (CAS 78-92-2)	TWA	100 ppm

**Italy. Occupational Exposure Limits**

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3
		5000 ppm

**Latvia. OELs. Occupational exposure limit values of chemical substances in work environment**

Components	Type	Value
1-METHOXY-2-PROPANOL ; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2)	STEL	568 mg/m3
		150 ppm
	TWA	375 mg/m3
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)		100 ppm
	STEL	550 mg/m3
	TWA	275 mg/m3
		50 ppm
Butan-2-ol (CAS 78-92-2)	TWA	10 mg/m3
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3
		5000 ppm

**Lithuania. OELs. Limit Values for Chemical Substances, General Requirements**

Components	Type	Value
1-METHOXY-2-PROPANOL ; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2)	STEL	300 mg/m3
		75 ppm
	TWA	190 mg/m3
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)		50 ppm
	STEL	400 mg/m3
	TWA	250 mg/m3
		75 ppm
Butan-2-ol (CAS 78-92-2)		50 ppm
	STEL	250 mg/m3
	TWA	150 mg/m3
		75 ppm
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3
		5000 ppm

**Luxembourg. Binding Occupational exposure limit values (Annex I), Memorial A**

Components	Type	Value
1-METHOXY-2-PROPANOL ; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2)	STEL	568 mg/m3
		150 ppm
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	STEL	550 mg/m3
		100 ppm

**Malta. OELs. Occupational Exposure Limit Values (L.N. 227. of Occupational Health and Safety Authority Act (CAP. 424), Schedules I and V)**

Components	Type	Value
1-METHOXY-2-PROPANOL ; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2)	STEL	568 mg/m3
		150 ppm
	TWA	375 mg/m3 100 ppm
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	STEL	550 mg/m3
	TWA	100 ppm 275 mg/m3 50 ppm
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3 5000 ppm

**Netherlands. OELs (binding)**

Components	Type	Value
1-METHOXY-2-PROPANOL ; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2)	STEL	563 mg/m3
	TWA	375 mg/m3
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	TWA	550 mg/m3
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3

**Norway**

Components	Type	Value
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	TWA	275 mg/m3

**Norway. Administrative Norms for Contaminants in the Workplace**

Components	Type	Value
1-METHOXY-2-PROPANOL ; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2)	TLV	180 mg/m3 50 ppm
		270 mg/m3
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	TLV	50 ppm
Butan-2-ol (CAS 78-92-2)	Ceiling	75 mg/m3 25 ppm
Carbon dioxide (CAS 124-38-9)	TLV	9000 mg/m3 5000 ppm

**Poland. Ordinance of the Minister of Labour and Social Policy on 6 June 2014 on the maximum permissible concentrations and intensities of harmful health factors in the work environment, Journal of Laws 2014, item 817**

Components	Type	Value
1-METHOXY-2-PROPANOL ; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2)	STEL	360 mg/m3
		0 ppm
	TWA	180 mg/m3 0 ppm

**Poland. Ordinance of the Minister of Labour and Social Policy on 6 June 2014 on the maximum permissible concentrations and intensities of harmful health factors in the work environment, Journal of Laws 2014, item 817**

Components	Type	Value
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	STEL	520 mg/m <sup>3</sup>
		0 ppm
	TWA	260 mg/m <sup>3</sup>
Butan-2-ol (CAS 78-92-2)		0 ppm
	STEL	450 mg/m <sup>3</sup>
	TWA	300 mg/m <sup>3</sup>
Carbon dioxide (CAS 124-38-9)		0 ppm
	STEL	27000 mg/m <sup>3</sup>
	TWA	9000 mg/m <sup>3</sup>
		0 ppm

**Portugal. OELs. Decree-Law n. 290/2001 (Journal of the Republic - 1 Series A, n.266)**

Components	Type	Value
1-METHOXY-2-PROPANOL ; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2)	STEL	568 mg/m <sup>3</sup>
		150 ppm
	TWA	375 mg/m <sup>3</sup>
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)		100 ppm
	STEL	550 mg/m <sup>3</sup>
	TWA	275 mg/m <sup>3</sup>
Carbon dioxide (CAS 124-38-9)		50 ppm
	TWA	9000 mg/m <sup>3</sup>
		5000 ppm

**Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796)**

Components	Type	Value
1-METHOXY-2-PROPANOL ; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2)	STEL	100 ppm
	TWA	50 ppm
Butan-2-ol (CAS 78-92-2)	TWA	100 ppm
Carbon dioxide (CAS 124-38-9)	STEL	30000 ppm
	TWA	5000 ppm

**Romania. OELs. Protection of workers from exposure to chemical agents at the workplace**

Components	Type	Value
1-METHOXY-2-PROPANOL ; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2)	STEL	568 mg/m <sup>3</sup>
		150 ppm
	TWA	375 mg/m <sup>3</sup>
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)		100 ppm
	STEL	550 mg/m <sup>3</sup>
		100 ppm

**Romania. OELs. Protection of workers from exposure to chemical agents at the workplace**

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	TWA	275 mg/m3
		50 ppm
	TWA	9000 mg/m3
		5000 ppm

**Slovakia. OELs. Regulation No. 300/2007 concerning protection of health in work with chemical agents**

Components	Type	Value
1-METHOXY-2-PROPANOL ; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2)	STEL	568 mg/m3
		150 ppm
	TWA	375 mg/m3
		100 ppm
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	STEL	550 mg/m3
		100 ppm
	TWA	275 mg/m3
		50 ppm
Butan-2-ol (CAS 78-92-2)	TWA	310 mg/m3
		100 ppm
	TWA	9000 mg/m3
		5000 ppm

**Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)**

Components	Type	Value
1-METHOXY-2-PROPANOL ; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2)	TWA	375 mg/m3
		100 ppm
	TWA	275 mg/m3
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	TWA	50 ppm
		9000 mg/m3
		5000 ppm

**Spain. Occupational Exposure Limits**

Components	Type	Value
1-METHOXY-2-PROPANOL ; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2)	STEL	568 mg/m3
		150 ppm
	TWA	375 mg/m3
		100 ppm
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	STEL	550 mg/m3
		100 ppm
	TWA	275 mg/m3
		50 ppm
Butan-2-ol (CAS 78-92-2)	TWA	308 mg/m3
		100 ppm

**Spain. Occupational Exposure Limits**

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	TWA	9150 mg/m <sup>3</sup>
		5000 ppm

**Sweden**

Components	Type	Value
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	STEL (STV)	600 mg/m <sup>3</sup>
	TWA	300 mg/m <sup>3</sup>

**Sweden. OELs. Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2015:7)**

Components	Type	Value
1-METHOXY-2-PROPANOL ; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2)	Ceiling	568 mg/m <sup>3</sup>
		150 ppm
	STEL	300 mg/m <sup>3</sup>
	TWA	190 mg/m <sup>3</sup>
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	Ceiling	550 mg/m <sup>3</sup>
		100 ppm
	TWA	275 mg/m <sup>3</sup>
Butan-2-ol (CAS 78-92-2)	STEL	250 mg/m <sup>3</sup>
		75 ppm
	TWA	150 mg/m <sup>3</sup>
Carbon dioxide (CAS 124-38-9)	STEL	18000 mg/m <sup>3</sup>
		10000 ppm
	TWA	9000 mg/m <sup>3</sup>
		5000 ppm

**Switzerland**

Components	Type	Value
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	STEL	6000 mg/m <sup>3</sup>
	TWA	300 mg/m <sup>3</sup>

**Switzerland. SUVA Grenzwerte am Arbeitsplatz**

Components	Type	Value
1-METHOXY-2-PROPANOL ; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2)	STEL	720 mg/m <sup>3</sup>
		200 ppm
	TWA	360 mg/m <sup>3</sup>
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	STEL	275 mg/m <sup>3</sup>
		100 ppm
	TWA	275 mg/m <sup>3</sup>
		50 ppm

**Switzerland. SUVA Grenzwerte am Arbeitsplatz**

Components	Type	Value
Butan-2-ol (CAS 78-92-2)	STEL	600 mg/m3 200 ppm
	TWA	300 mg/m3 100 ppm
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3 5000 ppm

**UK. EH40 Workplace Exposure Limits (WELs)**

Components	Type	Value
1-METHOXY-2-PROPANOL ; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2)	STEL	560 mg/m3 150 ppm
	TWA	375 mg/m3 100 ppm
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	STEL	548 mg/m3 100 ppm
	TWA	274 mg/m3 50 ppm
Butan-2-ol (CAS 78-92-2)	STEL	462 mg/m3 150 ppm
	TWA	308 mg/m3 100 ppm
Carbon dioxide (CAS 124-38-9)	STEL	27400 mg/m3 15000 ppm
	TWA	9150 mg/m3 5000 ppm

**EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU**

Components	Type	Value
1-METHOXY-2-PROPANOL ; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2)	STEL	568 mg/m3 150 ppm
	TWA	375 mg/m3 100 ppm
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	STEL	550 mg/m3 100 ppm
	TWA	275 mg/m3 50 ppm
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3 5000 ppm

## Biological limit values

### Germany. TRGS 903, BAT List (Biological Limit Values)

Components	Value	Determinant	Specimen	Sampling Time
1-METHOXY-2-PROPANOL ; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2)	15 mg/l	1-Methoxyprop an-2-ol	Urine	*

\* - For sampling details, please see the source document.

### Switzerland. BAT-Werte (Biological Limit Values in the Workplace as per SUVA)

Components	Value	Determinant	Specimen	Sampling Time
1-METHOXY-2-PROPANOL ; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2)	20 mg/l	1-METHOXYP ROPANOL-2	Urine	*

\* - For sampling details, please see the source document.

**Recommended monitoring procedures** Follow standard monitoring procedures.

## Derived no effect levels (DNELs)

### General Population

Components	Value	Assessment factor	Notes
1-METHOXY-2-PROPANOL; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2)			
Long-term, Systemic, Dermal	78 mg/kg bw/day	16,8	Repeated dose toxicity
Long-term, Systemic, Inhalation	43,9 mg/m <sup>3</sup>		Repeated dose toxicity
Long-term, Systemic, Oral	33 mg/kg bw/day	28	Repeated dose toxicity
Butan-2-ol (CAS 78-92-2)			
Long-term, Systemic, Dermal	203 mg/kg bw/day	100	Repeated dose toxicity
Long-term, Systemic, Inhalation	213 mg/m <sup>3</sup>		Repeated dose toxicity
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics (CAS EC919-857-5)			
Long-term, Systemic, Dermal	300 mg/kg		
Long-term, Systemic, Inhalation	900 mg/m <sup>3</sup>		
Long-term, Systemic, Oral	300 mg/kg		

### Workers

Components	Value	Assessment factor	Notes
1-METHOXY-2-PROPANOL; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2)			
Long-term, Systemic, Dermal	183 mg/kg bw/day	10,08	Repeated dose toxicity
Long-term, Systemic, Inhalation	369 mg/m <sup>3</sup>		Repeated dose toxicity
Short-term, Local, Inhalation	553,5 mg/m <sup>3</sup>		Neurotoxicity
Short-term, Systemic, Inhalation	553,5 mg/m <sup>3</sup>		Neurotoxicity
Butan-2-ol (CAS 78-92-2)			
Long-term, Systemic, Dermal	405 mg/kg bw/day	50	Repeated dose toxicity
Long-term, Systemic, Inhalation	600 mg/m <sup>3</sup>		Repeated dose toxicity
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics (CAS EC919-857-5)			
Long-term, Systemic, Dermal	300 mg/kg		
Short-term, Systemic, Inhalation	1500 mg/m <sup>3</sup>		

## Predicted no effect concentrations (PNECs)

Components	Value	Assessment factor	Notes
1-METHOXY-2-PROPANOL; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2)			
Freshwater	10 mg/l	100	
Sediment (freshwater)	52,3 mg/kg		
Soil	4,59 mg/kg		
STP	100 mg/l	10	
Butan-2-ol (CAS 78-92-2)			
Freshwater	47,1 mg/l	1	
Sediment (freshwater)	196,19 mg/kg		
Soil	11,58 mg/kg	1	
STP	761 mg/l	1	

## Exposure guidelines

### Austria MAK: Skin designation

1-METHOXY-2-PROPANOL; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2)	Can be absorbed through the skin.
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	Can be absorbed through the skin.

**Belgium OELs: Skin designation**

1-METHOXY-2-PROPANOL; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2) Can be absorbed through the skin.  
2-Methoxy-1-methylethyl acetate (CAS 108-65-6) Can be absorbed through the skin.

**Bulgaria OELs: Skin designation**

1-METHOXY-2-PROPANOL; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2) Can be absorbed through the skin.  
2-Methoxy-1-methylethyl acetate (CAS 108-65-6) Can be absorbed through the skin.

**Croatia ELVs: Skin designation**

2-Methoxy-1-methylethyl acetate (CAS 108-65-6) Can be absorbed through the skin.

**Czech Republic PELs: Skin designation**

1-METHOXY-2-PROPANOL; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2) Can be absorbed through the skin.  
2-Methoxy-1-methylethyl acetate (CAS 108-65-6) Can be absorbed through the skin.

**Denmark GV: Skin designation**

1-METHOXY-2-PROPANOL; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2) Can be absorbed through the skin.  
2-Methoxy-1-methylethyl acetate (CAS 108-65-6) Can be absorbed through the skin.  
Butan-2-ol (CAS 78-92-2) Can be absorbed through the skin.

**Estonia OELs: Skin designation**

1-METHOXY-2-PROPANOL; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2) Can be absorbed through the skin.  
2-Methoxy-1-methylethyl acetate (CAS 108-65-6) Can be absorbed through the skin.  
Butan-2-ol (CAS 78-92-2) Can be absorbed through the skin.

**EU Exposure Limit Values: Skin designation**

1-METHOXY-2-PROPANOL; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2) Can be absorbed through the skin.  
2-Methoxy-1-methylethyl acetate (CAS 108-65-6) Can be absorbed through the skin.

**Finland Exposure Limit Values: Skin designation**

1-METHOXY-2-PROPANOL; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2) Can be absorbed through the skin.  
2-Methoxy-1-methylethyl acetate (CAS 108-65-6) Can be absorbed through the skin.  
Butan-2-ol (CAS 78-92-2) Can be absorbed through the skin.

**France INRS: Skin designation**

1-METHOXY-2-PROPANOL; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2) Can be absorbed through the skin.  
2-Methoxy-1-methylethyl acetate (CAS 108-65-6) Can be absorbed through the skin.

**Greece OEL: Skin designation**

1-METHOXY-2-PROPANOL; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2) Can be absorbed through the skin.  
2-Methoxy-1-methylethyl acetate (CAS 108-65-6) Can be absorbed through the skin.

**Hungary OELs: Skin designation**

1-METHOXY-2-PROPANOL; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2) Can be absorbed through the skin.

**Iceland OELs: Skin designation**

1-METHOXY-2-PROPANOL; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2) Can be absorbed through the skin.  
2-Methoxy-1-methylethyl acetate (CAS 108-65-6) Can be absorbed through the skin.  
Butan-2-ol (CAS 78-92-2) Can be absorbed through the skin.

**Ireland Exposure Limit Values: Skin designation**

2-Methoxy-1-methylethyl acetate (CAS 108-65-6) Can be absorbed through the skin.

**Italy OELs: Skin designation**

1-METHOXY-2-PROPANOL; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2) Danger of cutaneous absorption  
2-Methoxy-1-methylethyl acetate (CAS 108-65-6) Danger of cutaneous absorption

**Latvia OELs: Skin designation**

1-METHOXY-2-PROPANOL; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2) Can be absorbed through the skin.  
2-Methoxy-1-methylethyl acetate (CAS 108-65-6) Can be absorbed through the skin.

**Lithuania OELs: Skin designation**

1-METHOXY-2-PROPANOL; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2) Can be absorbed through the skin.  
2-Methoxy-1-methylethyl acetate (CAS 108-65-6) Can be absorbed through the skin.  
Butan-2-ol (CAS 78-92-2) Can be absorbed through the skin.

### Luxembourg OELs: Skin designation

1-METHOXY-2-PROPANOL; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2) Can be absorbed through the skin.  
2-Methoxy-1-methylethyl acetate (CAS 108-65-6) Can be absorbed through the skin.

### Malta OELs: Skin designation

1-METHOXY-2-PROPANOL; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2) Can be absorbed through the skin.  
2-Methoxy-1-methylethyl acetate (CAS 108-65-6) Can be absorbed through the skin.

### Netherlands OELs (binding): Skin designation

1-METHOXY-2-PROPANOL; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2) Can be absorbed through the skin.

### Norway Exposure Limit Values: Skin designation

1-METHOXY-2-PROPANOL; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2) Can be absorbed through the skin.  
2-Methoxy-1-methylethyl acetate (CAS 108-65-6) Can be absorbed through the skin.  
Butan-2-ol (CAS 78-92-2) Can be absorbed through the skin.

### Portugal OELs: Skin designation

2-Methoxy-1-methylethyl acetate (CAS 108-65-6) Can be absorbed through the skin.

### Romania OELs: Skin designation

1-METHOXY-2-PROPANOL; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2) Can be absorbed through the skin.  
2-Methoxy-1-methylethyl acetate (CAS 108-65-6) Can be absorbed through the skin.

### Slovakia OELs: Skin designation

1-METHOXY-2-PROPANOL; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2) Can be absorbed through the skin.  
2-Methoxy-1-methylethyl acetate (CAS 108-65-6) Can be absorbed through the skin.

### Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)

1-METHOXY-2-PROPANOL; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2) Can be absorbed through the skin.  
2-Methoxy-1-methylethyl acetate (CAS 108-65-6) Can be absorbed through the skin.

### Spain OELs: Skin designation

1-METHOXY-2-PROPANOL; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2) Can be absorbed through the skin.  
2-Methoxy-1-methylethyl acetate (CAS 108-65-6) Can be absorbed through the skin.

### Sweden Threshold Limit Values: Skin designation

1-METHOXY-2-PROPANOL; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2) Can be absorbed through the skin.  
2-Methoxy-1-methylethyl acetate (CAS 108-65-6) Can be absorbed through the skin.  
Butan-2-ol (CAS 78-92-2) Can be absorbed through the skin.

### UK EH40 WEL: Skin designation

1-METHOXY-2-PROPANOL; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2) Can be absorbed through the skin.  
2-Methoxy-1-methylethyl acetate (CAS 108-65-6) Can be absorbed through the skin.

## 8.2. Exposure controls

### Appropriate engineering controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

### Individual protection measures, such as personal protective equipment

#### General information

Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

#### Eye/face protection

Wear safety glasses with side shields (or goggles). Use eye protection conforming to EN 166.

#### Skin protection

##### - Hand protection

When handling the product wear chemical-resistant gloves (standard EN 374). The breakthrough time of the glove should be longer than the total duration of product use. If work lasts longer than the breakthrough time, gloves should be changed part-way through. Full contact: Glove material: nitrile. Use gloves with breakthrough time of 480 minutes. Minimum glove thickness 0.38 mm.

##### - Other

Not available.

#### Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. Chemical respirator with organic vapour cartridge and full facepiece. (Filter type A)

#### Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

<b>Hygiene measures</b>	When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.
<b>Environmental exposure controls</b>	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels.

## SECTION 9: Physical and chemical properties

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

<b>Physical state</b>	Liquid.
<b>Form</b>	Aerosol.
<b>Colour</b>	Colourless.
<b>Odour</b>	Sweet ether-like.
<b>Melting point/freezing point</b>	-114 °C (-173,2 °F) estimated
<b>Boiling point or initial boiling point and boiling range</b>	100 - 200 °C (212 - 392 °F)
<b>Flammability (solid, gas)</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	
<b>Explosive limit - lower (%)</b>	0,6 % estimated
<b>Explosive limit – upper (%)</b>	9,8 % estimated
<b>Flash point</b>	23,0 °C (73,4 °F) Closed cup
<b>Auto-ignition temperature</b>	> 200 °C (> 392 °F)
<b>Decomposition temperature</b>	Not available.
<b>pH</b>	Not applicable.
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Not available.
<b>Solubility (other)</b>	Insoluble in water
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Vapour pressure</b>	Not available.
<b>Vapour density</b>	Not available.
<b>Relative density</b>	0,81
<b>Particle characteristics</b>	Not available.

### 9.2. Other information

**9.2.1. Information with regard to physical hazard classes** No relevant additional information available.

### 9.2.2. Other safety characteristics

#### Aerosol spray enclosed space

**Deflagration density** Not available.

**Aerosol spray ignition distance** Not available.

**Chemical family** Cleaner

**Density** 0,81 g/cm<sup>3</sup>

**Evaporation rate** Not available.

**Explosive properties** Not explosive.

**Heat of combustion** 33,9 kJ/g

**Oxidising properties** Not oxidising.

**VOC** 783 g/l

## SECTION 10: Stability and reactivity

<b>10.1. Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>10.2. Chemical stability</b>	Material is stable under normal conditions.
<b>10.3. Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>10.4. Conditions to avoid</b>	Avoid high temperatures.
<b>10.5. Incompatible materials</b>	Strong acids.

10.6. Hazardous decomposition products Carbon oxides.

## SECTION 11: Toxicological information

**General information** Occupational exposure to the substance or mixture may cause adverse effects.

### Information on likely routes of exposure

**Inhalation** May cause drowsiness or dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be harmful.

**Skin contact** Based on available data, the classification criteria are not met.

**Eye contact** Based on available data, the classification criteria are not met.

**Ingestion** May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.

**Symptoms** May cause drowsiness or dizziness. Headache. Nausea, vomiting.

### 11.1. Information on toxicological effects

**Acute toxicity** Based on available data, the classification criteria are not met.

Components	Species	Test Results
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1-METHOXY-2-PROPANOL; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2)

#### Acute

##### **Dermal**

LD50	Rabbit	13 g/kg
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##### **Inhalation**

LC50	Rat	54,6 mg/l, 4 Hours
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##### **Oral**

LD50	Rat	5,71 g/kg
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2-Methoxy-1-methylethyl acetate (CAS 108-65-6)

#### Acute

##### **Dermal**

LC50	Rabbit	> 5000 mg/kg
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##### **Oral**

LD50	Rat	> 5000 mg/kg
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Butan-2-ol (CAS 78-92-2)

#### Acute

##### **Dermal**

LD50	Rabbit	> 2000 mg/kg
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Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

#### Acute

##### **Dermal**

LD50	Rabbit	> 5000 mg/kg
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##### **Oral**

LD50	Rat	> 5000 mg/kg
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**Skin corrosion/irritation** Based on available data, the classification criteria are not met.

**Serious eye damage/eye irritation** Based on available data, the classification criteria are not met.

**Respiratory sensitisation** Based on available data, the classification criteria are not met.

**Skin sensitisation** Based on available data, the classification criteria are not met.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

**Carcinogenicity** Based on available data, the classification criteria are not met.

**Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)**

Not listed.

**Reproductive toxicity** Based on available data, the classification criteria are not met.

**Specific target organ toxicity - single exposure** May cause drowsiness or dizziness.

**Specific target organ toxicity - repeated exposure** Based on available data, the classification criteria are not met.

**Aspiration hazard** Based on available data, the classification criteria are not met.

**Mixture versus substance information** Not available.

#### 11.2. Information on other hazards

**Endocrine disrupting properties** The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**Other information** Not available.

## SECTION 12: Ecological information

**12.1. Toxicity** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components	Species	Test Results
------------	---------	--------------

1-METHOXY-2-PROPANOL; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2)

#### Aquatic

##### Acute

Algae	EC50	Algae	> 1000 mg/l, 72 h
Crustacea	EC50	Daphnia	> 1000 mg/l, 48 h
Fish	LC50	Oncorhynchus mykiss	> 1000 mg/l, 96 h

2-Methoxy-1-methylethyl acetate (CAS 108-65-6)

#### Aquatic

##### Acute

Algae	EC50	Algae	> 1000 mg/l, 72 h
Crustacea	EC50	Daphnia	> 400 mg/l, 48 h

Butan-2-ol (CAS 78-92-2)

#### Aquatic

##### Acute

Crustacea	EC50	Water flea (Daphnia magna)	>= 1859 - <= 7143 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	>= 3380 - <= 3990 mg/l, 96 hours

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

##### Acute

Other	LC50	Pseudokirchnerella subcapitata	> 1000 mg/l, 72 h
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#### Aquatic

##### Acute

Fish	LC50	Oncorhynchus mykiss	> 1000 mg/l
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**12.2. Persistence and degradability** No data is available on the degradability of any ingredients in the mixture.

#### 12.3. Bioaccumulative potential

##### Partition coefficient

##### n-octanol/water (log Kow)

1-METHOXY-2-PROPANOL; MONOPROPYLENE GLYCOL METHYL ETHER	-0,49
Butan-2-ol	0,61

**Bioconcentration factor (BCF)** Not available.

**12.4. Mobility in soil** No data available.

**12.5. Results of PBT and vPvB assessment** This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII.

**12.6. Endocrine disrupting properties** The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**12.7. Other adverse effects** GWP: 0  
The product contains volatile organic compounds which have a photochemical ozone creation potential.

#### 12.8. Additional information

##### Estonia Dangerous substances in soil Data

Butan-2-ol (CAS 78-92-2)	Chemical pesticides (As the total sum of the active substances) 0,5 mg/kg Chemical pesticides (As the total sum of the active substances) 20 mg/kg
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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

<b>Residual waste</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
<b>Contaminated packaging</b>	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.
<b>EU waste code</b>	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Disposal methods/information</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Special precautions</b>	Dispose in accordance with all applicable regulations.

## SECTION 14: Transport information

### ADR

<b>14.1. UN number</b>	UN1950
<b>14.2. UN proper shipping name</b>	AEROSOLS
<b>14.3. Transport hazard class(es)</b>	
<b>Class</b>	2.1
<b>Subsidiary risk</b>	-
<b>Hazard No. (ADR)</b>	Not available.
<b>Tunnel restriction code</b>	D
<b>ADR/RID - Classification code:</b>	5F
<b>14.4. Packing group</b>	Not available.
<b>14.5. Environmental hazards</b>	No
<b>14.6. Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.

### IATA

<b>14.1. UN number</b>	UN1950
<b>14.2. UN proper shipping name</b>	Aerosols
<b>14.3. Transport hazard class(es)</b>	
<b>Class</b>	2.1
<b>Subsidiary risk</b>	-
<b>14.4. Packing group</b>	Not available.
<b>14.5. Environmental hazards</b>	No
<b>14.6. Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.

### IMDG

<b>14.1. UN number</b>	UN1950
<b>14.2. UN proper shipping name</b>	AEROSOLS
<b>14.3. Transport hazard class(es)</b>	
<b>Class</b>	2.1
<b>Subsidiary risk</b>	-
<b>14.4. Packing group</b>	Not available.
<b>14.5. Environmental hazards</b>	
<b>Marine pollutant</b>	No
<b>EmS</b>	F-D, S-U
<b>14.6. Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>14.7. Maritime transport in bulk according to IMO instruments</b>	Not established.



## SECTION 15: Regulatory information

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

#### EU regulations

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended**

Not listed.

**Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended**

Not listed.

**Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended**

Carbon dioxide (CAS 124-38-9)

**Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA**

Not listed.

#### Authorisations

**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended**

Not listed.

#### Restrictions on use

**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended**

Butan-2-ol (CAS 78-92-2)

**Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.**

Not listed.

#### Other EU regulations

**Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended**

1-METHOXY-2-PROPANOL; MONOPROPYLENE GLYCOL METHYL ETHER (CAS 107-98-2)

2-Methoxy-1-methylethyl acetate (CAS 108-65-6)

Butan-2-ol (CAS 78-92-2)

#### Other regulations

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

#### National regulations

Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended.

#### 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

## SECTION 16: Other information

#### List of abbreviations

ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road.

AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany).

ATE: Acute Toxicity Estimate according to REGULATION (EC) No 1272/2008 (CLP).

CAS: Chemical Abstract Service.

Ceiling: Short Term Exposure Limit Ceiling value.

CEN: European Committee for Standardization.  
CLP: Classification, Labeling and Packaging REGULATION (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures.  
GWP: Global Warming Potential.  
IATA: International Air Transport Association.  
IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk.  
IMDG: International Maritime Dangerous Goods.  
MAC: Maximum Allowed Concentration.  
MAK: Threshold limit values Germany (Maximale Arbeitsplatzkonzentration - DFG).  
MARPOL: International Convention for the Prevention of Pollution from Ships.  
PBT: Persistent, bioaccumulative and toxic.  
REACH: Registration, Evaluation and Authorization of Chemicals (REGULATION (EC) No 1907/2006 concerning Registration, Evaluation Authorization and Restriction of Chemicals).  
RID: Regulations concerning the international carriage of dangerous goods by rail (Règlement International concernant le transport de marchandises dangereuses par chemin de fer).  
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.  
STEL: Short-Term Exposure Limit.  
STEL: Short term exposure limit.  
TLV: Threshold Limit Value.  
TWA: Time Weighted Average.  
TWA : Time Weighed Average Value.  
VLE: Exposure Limit Value.  
VME: Exposure Average Value.  
VOC: Volatile organic compounds.  
vPvB: Very persistent and very bioaccumulative.  
STEL: Short-term Exposure Limit.

#### References

#### Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

#### Full text of any H-statements not written out in full under Sections 2 to 15

H226 Flammable liquid and vapour.  
H280 Contains gas under pressure; may explode if heated.  
H304 May be fatal if swallowed and enters airways.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.

#### Revision information

None.

#### Training information

Follow training instructions when handling this material.

#### Disclaimer

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