

SAFETY DATA SHEET

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

Version #: 1,1 Issue date: 18-November-2022 Revision date: 27-February-2023 Supersedes date: 18-November-2022

1.1. Product identifier FORMULA 1 Trade name or designation of the mixture **Registration number** None. Synonyms Product code UDS000380AE 1.2. Relevant identified uses of the substance or mixture and uses advised against **Identified uses Release Agents** Uses advised against None known. 1.3. Details of the supplier of the safety data sheet CRC Industries UK Ltd. Company name Address Wylds Road **Castlefield Industrial Estate** TA6 4DD Bridgwater Somerset United Kingdom Telephone +44 1278 727200 Fax +44 1278 425644 E-mail hse.uk@crcind.com Website www.crcind.com CRC Industries Europe by Company name Address Touwslagerstraat 1 9240 Zele Belgium +32(0)52/45.60.11 Telephone Fax +32(0)52/45.00.34 E-mail hse@crcind.com Website www.crcind.com Tel.:(+44)(0)1278 72 7200 (office hours: 9-17h GMT) 1.4. Emergency telephone number +431 406 4343 (Available 24 hours a day.) **Austria National Poisons Information Centre Belgium National Poisons** 070 245 245 (Available 24 hours a day.) **Control Center** +359 2 9154233 (Available 24 hours a day.) **Bulgaria National Toxicological Information** Centre **Czech Republic National** +420 224 919 293, or +420 224 915 402 (Hours of operation not provided.) **Poisons Information** Centre

Control CenterEstonia National PoisonsInformation Centre16662 or abroad: (+372) 626 9390 (Monday 9:00AM to Saturday 9:00AM (closed
on Sundays and on national holidays))

+45 82 12 12 12 (Available 24 hours a day.)

Denmark National Poisons

Finland National Poison Information Center	(09) 471 977 (direct) or (09) 4711 (exchange) (Available 24 hours a day.)
France National Poisons Control Center	ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (Available 24 hours a day.)
Hungary National Emergency Phone Number	36 80 20 11 99 (Available 24 hours a day.)
Lithuania Neatidėliotina informacija apsinuodijus	+370 5 236 20 52 or +37068753378 (Hours of operation not provided.)
Malta Accident and Emergency Department	2545 4030 (Hours of operation not provided.)
Netherlands National Poisons Information Center (NVIC)	030-274 88 88 (Only for the purpose of informing medical personnel in cases of acute intoxications)
Norway Norwegian Poison Information Center	22 59 13 00 (Available 24 hours a day.)
Portugal Poison Centre	800 250 250 (Available 24 hours a day.)
Romania Număr de telefon care poate fi apelat în caz de urgență:	021 5992300, int. 291 Spitalul Clinic de Urgență București: spital@urgentafloreasca.ro
Romania	0265 212111, 0265 211292, 0265 217235 Spitalul Clinic Județean de Urgență Târgu Mureș: secretariat@spitjudms.ro
Slovakia National Toxicological Information Centre	+421 2 5477 4166 (Available 24 hours a day.)
Sweden National Poison Information Center	112 - and ask for Poison Information (Available 24 hours a day.)
Switzerland Tox Info Suisse	145 (Available 24 hours a day.)

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			
Skin corrosion/irritation		Category 2	H315 - Causes skin irritation.
Specific target organ toxic exposure	city - single	Category 3 narcotic effects	H336 - May cause drowsiness or dizziness.
Environmental hazards			
Hazardous to the aquatic long-term aquatic hazard		Category 2	H411 - Toxic to aquatic life with long lasting effects.
2.2. Label elements			
Label according to Regulation (EC) No. 1272/200	8 as amended	
Contains:	Hydrocarbons, (C7, n-alkanes,isoalkanes, cyclic	
Hazard pictograms		!	
Signal word	Danger		
Hazard statements			
H222	Extremely flamn	nable aerosol.	
H229		ntainer: May burst if heated.	
H315	Causes skin irrit	tation.	

H336	May cause drowsiness or dizziness.		
H411	Toxic to aquatic life with long lasting effects.		
Precautionary statements Prevention			
Prevention P102	Keep out of reach of children.		
P102 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. Avoid breathing mist/vapours.		
P261 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	None.		
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.		
-	information on ingredients		
3.2. Mixtures			
General information			
Chemical name Hydrocarbons, C7,	% CAS-No. / EC No. REACH Registration No. Index No. Notes 30 - 60 - 01-2119475515-33 649-328-00-1		
n-alkanes,isoalkanes, cyclic	927-510-4		
Classif	ication: Flam. Liq. 2;H225, Skin Irrit. 2;H315, STOT SE 3;H336, Asp. Tox. 1;H304, Aquatic Chronic 2;H411		
ethanol; ethyl alcohol	1 - 5 64-17-5 01-2119457610-43 603-002-00-5 200-578-6		
	ication: Flam. Liq. 2;H225, Eye Irrit. 2;H319 Limits: Eye Irrit. 2;H319: C >= 50 %		
methanol	0 - 1 67-56-1 01-2119433307-44 603-001-00-X # 200-659-6		
Classif	ication: Flam. Liq. 2;H225, Acute Tox. 3;H301;(ATE: 100 mg/kg bw), Acute Tox. 3;H311;(ATE: 300 mg/kg bw), Acute Tox. 3;H331;(ATE: 3 mg/l), STOT SE 1;H370		
Specific Concentration	Limits: STOT SE 1;H370: C >= 10 %, STOT SE 2;H371: 3 % <= C < 10 %		
ATE: Acute toxicity estimate. M: M-factor PBT: persistent, bioaccumulat vPvB: very persistent and very	ssigned Union workplace exposure limit(s). ive and toxic substance.		
Composition comments	The full text for all H-statements is displayed in section 16.		
SECTION 4: First aid meas	sures		
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.		
4.1. Description of first aid meas	ures		
Inhalation	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.		
Skin contact	Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.		
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.		
Ingestion	In the unlikely event of swallowing contact a physician or poison control centre. Rinse mouth.		
4.2. Most important symptoms and effects, both acute and delayed	May cause drowsiness or dizziness. Headache. Nausea, vomiting. Skin irritation. May cause redness and pain.		

Material name: FORMULA 1 - Ambersil - europe

UDS000380AE Version #: 1,1 Revision date: 27-February-2023 Issue date: 18-November-2022

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards	Extremely flammable aerosol.
5.1. Extinguishing media Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
5.2. Special hazards arising from the substance or mixture	Contents under pressure. Pressurised container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.
5.3. Advice for firefighters	
Special protective equipment for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
Special fire fighting procedures	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.
Specific methods	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

6.1. Personal precautions, protect	ctive equipment and emergency procedures
For non-emergency personnel	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. Do not touch or walk through spilled material.
For emergency responders	Keep unnecessary personnel away. 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.
6.2. Environmental precautions	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
6.3. Methods and material for containment and cleaning up	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. The product is immiscible with water and will spread on the water surface. Prevent product from entering drains. 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.
6.4. Reference to other sections	For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling	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 contact with eyes, skin, and clothing. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.
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 in tightly closed container. 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), BGBI. II, no. 184/2001

Components	Туре	Value
ethanol; ethyl alcohol (CAS 64-17-5)	Ceiling	3800 mg/m3
		2000 ppm
	MAK	1900 mg/m3
		1000 ppm
methanol (CAS 67-56-1)	MAK	260 mg/m3
		200 ppm
	STEL	1040 mg/m3
		800 ppm
Belgium. Exposure Limit Values	Turne	Value
Components	Туре	Value
ethanol; ethyl alcohol (CAS 64-17-5)	TWA	1907 mg/m3
		1000 ppm
methanol (CAS 67-56-1)	STEL	333 mg/m3
		250 ppm
	TWA	266 mg/m3
		200 ppm
Bulgaria. OELs. Regulation No 13 on Components	protection of workers again Type	st risks of exposure to chemical agents at work Value
ethanol; ethyl alcohol (CAS 64-17-5)	TWA	1000 mg/m3
methanol (CAS 67-56-1)	TWA	260 mg/m3
		200 ppm
Croatia. Dangerous Substance Expos Components	ure Limit Values in the Wor Type	kplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/0 Value
ethanol; ethyl alcohol (CAS	MAC	1900 mg/m3
64-17-5)		-
		1000 ppm
methanol (CAS 67-56-1)	MAC	260 mg/m3
		200 ppm
Czech Republic. OELs. Government E	Jecree 361	
Components	Туре	Value
ethanol; ethyl alcohol (CAS 64-17-5)	Ceiling	3000 mg/m3
	TWA	1000 mg/m3
		reee mg/me
methanol (CAS 67-56-1)	Ceiling	1000 mg/m3
methanol (CAS 67-56-1)	Ceiling TWA	-
Denmark. Exposure Limit Values		1000 mg/m3
Denmark. Exposure Limit Values Components	TWA	1000 mg/m3 250 mg/m3
Denmark. Exposure Limit Values Components ethanol; ethyl alcohol (CAS	TWA Type	1000 mg/m3 250 mg/m3 Value 1900 mg/m3
Denmark. Exposure Limit Values Components ethanol; ethyl alcohol (CAS	TWA Type	1000 mg/m3 250 mg/m3 Value 1900 mg/m3 1000 ppm
Denmark. Exposure Limit Values Components ethanol; ethyl alcohol (CAS 64-17-5)	TWA Type	1000 mg/m3 250 mg/m3 Value 1900 mg/m3
Denmark. Exposure Limit Values Components ethanol; ethyl alcohol (CAS 64-17-5)	TWA Type TLV	1000 mg/m3 250 mg/m3 Value 1900 mg/m3 1000 ppm
Denmark. Exposure Limit Values Components ethanol; ethyl alcohol (CAS 64-17-5) methanol (CAS 67-56-1) Estonia. OELs. Occupational Exposur	TWA Type TLV TLV	1000 mg/m3 250 mg/m3 Value 1900 mg/m3 1000 ppm 260 mg/m3 200 ppm
Denmark. Exposure Limit Values Components ethanol; ethyl alcohol (CAS 64-17-5) methanol (CAS 67-56-1) Estonia. OELs. Occupational Exposur Components	TWA Type TLV TLV TLV TLV TLV TLV TLV TLV	1000 mg/m3 250 mg/m3 Value 1900 mg/m3 1000 ppm 260 mg/m3 200 ppm stances (Regulation No. 105/2001, Annex), as amended Value
methanol (CAS 67-56-1) Denmark. Exposure Limit Values Components ethanol; ethyl alcohol (CAS 64-17-5) methanol (CAS 67-56-1) Estonia. OELs. Occupational Exposur Components ethanol; ethyl alcohol (CAS 64-17-5)	TWA Type TLV TLV TLV TEV TLV	1000 mg/m3 250 mg/m3 Value 1900 mg/m3 1000 ppm 260 mg/m3 200 ppm stances (Regulation No. 105/2001, Annex), as amended
Denmark. Exposure Limit Values Components ethanol; ethyl alcohol (CAS 64-17-5) methanol (CAS 67-56-1) Estonia. OELs. Occupational Exposur Components ethanol; ethyl alcohol (CAS	TWA Type TLV TLV TLV TLV TLV TLV TLV TLV	1000 mg/m3 250 mg/m3 Value 1900 mg/m3 1000 ppm 260 mg/m3 200 ppm stances (Regulation No. 105/2001, Annex), as amended Value

Components	Туре	Value
	TWA	1000 mg/m3
		500 ppm
methanol (CAS 67-56-1)	STEL	350 mg/m3
		250 ppm
	TWA	250 mg/m3
		200 ppm
Finland. Workplace Exp	osure Limits	
Components	Туре	Value
ethanol; ethyl alcohol (CA 64-17-5)	S STEL	2500 mg/m3
		1300 ppm
	TWA	1900 mg/m3
		1000 ppm
methanol (CAS 67-56-1)	STEL	330 mg/m3
		250 ppm
	TWA	270 mg/m3
		200 ppm
France. OELs. Occupatio Components	onal Exposure Limits as Prescribed by <i>I</i> Type	Art. R.4412-149 of Labor Code, as amended Value
methanol (CAS 67-56-1)	VME	260 mg/m3
nethanol (CAS 67-56-1)	VME	260 mg/m3 200 ppm
France. Threshold Limit		-
France. Threshold Limit Components ethanol; ethyl alcohol (CA	Values (VLEP) for Occupational Exposu Type	200 ppm ure to Chemicals in France, INRS ED 984
France. Threshold Limit Components ethanol; ethyl alcohol (CA	Values (VLEP) for Occupational Exposu Type	200 ppm ure to Chemicals in France, INRS ED 984 Value 9500 mg/m3
France. Threshold Limit Components ethanol; ethyl alcohol (CA 64-17-5) Regulatory status:	S Values (VLEP) for Occupational Expose Type S VLE Indicative limit (VL)	200 ppm ure to Chemicals in France, INRS ED 984 Value
France. Threshold Limit Components ethanol; ethyl alcohol (CA 64-17-5)	Values (VLEP) for Occupational Expositive Type S VLE Indicative limit (VL) Indicative limit (VL)	200 ppm are to Chemicals in France, INRS ED 984 Value 9500 mg/m3 5000 ppm
France. Threshold Limit Components ethanol; ethyl alcohol (CA 64-17-5) Regulatory status: Regulatory status:	Values (VLEP) for Occupational Expose Type S VLE Indicative limit (VL) Indicative limit (VL) VME	200 ppm ure to Chemicals in France, INRS ED 984 Value 9500 mg/m3
France. Threshold Limit Components ethanol; ethyl alcohol (CA 64-17-5) Regulatory status:	Values (VLEP) for Occupational Expositive Type S VLE Indicative limit (VL) Indicative limit (VL)	200 ppm are to Chemicals in France, INRS ED 984 Value 9500 mg/m3 5000 ppm 1900 mg/m3
France. Threshold Limit Components ethanol; ethyl alcohol (CA 64-17-5) Regulatory status: Regulatory status: Regulatory status:	Values (VLEP) for Occupational Expose Type S VLE Indicative limit (VL) Indicative limit (VL) VME Indicative limit (VL)	200 ppm are to Chemicals in France, INRS ED 984 Value 9500 mg/m3 5000 ppm
France. Threshold Limit Components ethanol; ethyl alcohol (CA 64-17-5) Regulatory status: Regulatory status: Regulatory status: Regulatory status:	Values (VLEP) for Occupational Expose Type S VLE Indicative limit (VL) Indicative limit (VL) VME Indicative limit (VL) Indicative limit (VL)	200 ppm are to Chemicals in France, INRS ED 984 Value 9500 mg/m3 5000 ppm 1900 mg/m3 1000 ppm
France. Threshold Limit Components ethanol; ethyl alcohol (CA 34-17-5) Regulatory status: Regulatory status: Regulatory status: Regulatory status: nethanol (CAS 67-56-1)	Values (VLEP) for Occupational Expositive Type S VLE Indicative limit (VL) Indicative limit (VL) VME Indicative limit (VL) VME Indicative limit (VL) VME VLE	200 ppm are to Chemicals in France, INRS ED 984 Value 9500 mg/m3 5000 ppm 1900 mg/m3
France. Threshold Limit Components ethanol; ethyl alcohol (CA 34-17-5) Regulatory status: Regulatory status: Regulatory status: Regulatory status:	Values (VLEP) for Occupational Expose Type S VLE Indicative limit (VL) Indicative limit (VL) VME Indicative limit (VL) Indicative limit (VL)	200 ppm are to Chemicals in France, INRS ED 984 Value 9500 mg/m3 5000 ppm 1900 mg/m3 1000 ppm 1300 mg/m3
France. Threshold Limit Components ethanol; ethyl alcohol (CA 64-17-5) Regulatory status: Regulatory status: Regulatory status: Regulatory status: nethanol (CAS 67-56-1) Regulatory status:	Values (VLEP) for Occupational Expositive Type S VLE Indicative limit (VL) Indicative limit (VL) Undicative limit (VL) Indicative limit (VL) VLE Indicative limit (VL)	200 ppm are to Chemicals in France, INRS ED 984 Value 9500 mg/m3 5000 ppm 1900 mg/m3 1000 ppm
France. Threshold Limit Components ethanol; ethyl alcohol (CA 64-17-5) Regulatory status: Regulatory status: Regulatory status: Regulatory status: methanol (CAS 67-56-1)	Values (VLEP) for Occupational Expositive Type S VLE Indicative limit (VL) Indicative limit (VL) VME Indicative limit (VL) VME Indicative limit (VL) VME VLE	200 ppm are to Chemicals in France, INRS ED 984 Value 9500 mg/m3 5000 ppm 1900 mg/m3 1000 ppm 1300 mg/m3
France. Threshold Limit Components ethanol; ethyl alcohol (CA 64-17-5) Regulatory status: Regulatory status: Regulatory status: Regulatory status: methanol (CAS 67-56-1) Regulatory status: Regulatory status:	Values (VLEP) for Occupational Expositive Type S VLE Indicative limit (VL) Indicative limit (VL) VME Indicative limit (VL) Indicative limit (VL) Indicative limit (VL) Indicative limit (VL) VLE Indicative limit (VL) VLE Indicative limit (VL) VLE Indicative limit (VL) VLE Indicative limit (VL) VME	200 ppm are to Chemicals in France, INRS ED 984 Value 9500 mg/m3 5000 ppm 1900 mg/m3 1000 ppm 1300 mg/m3 1000 ppm
Components ethanol; ethyl alcohol (CA 64-17-5) Regulatory status: Regulatory status: Regulatory status: Regulatory status: methanol (CAS 67-56-1) Regulatory status:	Values (VLEP) for Occupational Exposing Type S VLE Indicative limit (VL)	200 ppm are to Chemicals in France, INRS ED 984 Value 9500 mg/m3 5000 ppm 1900 mg/m3 1000 ppm 1300 mg/m3 1000 ppm
France. Threshold Limit Components ethanol; ethyl alcohol (CA 64-17-5) Regulatory status: Regulatory status: Regulatory status: Regulatory status: methanol (CAS 67-56-1) Regulatory status: Regulatory status:	Values (VLEP) for Occupational Expositive Type S VLE Indicative limit (VL) Indicative limit (VL) VME Indicative limit (VL) Indicative limit (VL) Indicative limit (VL) Indicative limit (VL) VLE Indicative limit (VL) VLE Indicative limit (VL) VLE Indicative limit (VL) VLE Indicative limit (VL) VME	200 ppm are to Chemicals in France, INRS ED 984 Value 9500 mg/m3 5000 ppm 1900 mg/m3 1000 ppm 1300 mg/m3 1000 ppm 260 mg/m3

Components	Туре	Value	
ethanol; ethyl alcohol (CAS 64-17-5)	TWA	380 mg/m3	
		200 ppm	
methanol (CAS 67-56-1)	TWA	130 mg/m3	
		100 ppm	

Germany - TRGS 900 Components	Туре	Value
Hydrocarbons, C7, n-alkanes,isoalkanes, cyclic	TWA	1500 mg/m3
Germany. TRGS 900, Limit Values in the		
Components	Туре	Value
ethanol; ethyl alcohol (CAS 64-17-5)	AGW	380 mg/m3
		200 ppm
methanol (CAS 67-56-1)	AGW	130 mg/m3
		100 ppm
Greece. OELs (Decree No. 90/1999, as a Components	ımended) Type	Value
ethanol; ethyl alcohol (CAS 64-17-5)	TWA	1900 mg/m3
,		1000 ppm
methanol (CAS 67-56-1)	STEL	325 mg/m3
		250 ppm
	TWA	260 mg/m3
		200 ppm
Hungary. OELs. Joint Decree on Chemi	cal Safety of Workplaces	
Components	Туре	Value
ethanol; ethyl alcohol (CAS 64-17-5)	STEL	3800 mg/m3
	TWA	1900 mg/m3
methanol (CAS 67-56-1)	TWA	260 mg/m3
Iceland. OELs. Regulation 154/1999 on	occupational exposure li	mits
Components	Туре	Value
ethanol; ethyl alcohol (CAS 64-17-5)	TWA	1900 mg/m3
		1000 ppm
methanol (CAS 67-56-1)	TWA	260 mg/m3
		200 ppm
Ireland. Occupational Exposure Limits	_	
Components	Туре	Value
ethanol; ethyl alcohol (CAS 64-17-5)	STEL	1000 ppm
methanol (CAS 67-56-1)	TWA	260 mg/m3
		200 ppm
Italy. Occupational Exposure Limits Components	Туре	Value
ethanol; ethyl alcohol (CAS 64-17-5)	STEL	1000 ppm
methanol (CAS 67-56-1)	TWA	260 mg/m3
-		200 ppm
Latvia. OELs. Occupational exposure li	mit values of chemical su	ibstances in work environment
Components	Туре	Value
ethanol; ethyl alcohol (CAS 64-17-5)	TWA	1000 mg/m3
methanol (CAS 67-56-1)	TWA	260 mg/m3

200 ppm

Components	Туре	al Requirements Value
ethanol; ethyl alcohol (CAS 64-17-5)	STEL	1900 mg/m3
04-17-5)		1000 ppm
	TWA	1000 mg/m3
		500 ppm
methanol (CAS 67-56-1)	TWA	260 mg/m3
		200 ppm
Luxembourg. Binding Occupation Components	al exposure limit values (Anno Type	ex I), Memorial A Value
methanol (CAS 67-56-1)	TWA	260 mg/m3
		200 ppm
Malta. OELs. Occupational Exposi Schedules I and V)	re Limit Values (L.N. 227. of 0	Occupational Health and Safety Authority Act (CAP. 42
Components	Туре	Value
methanol (CAS 67-56-1)	TWA	260 mg/m3
		200 ppm
Netherlands. OELs (binding)		
Components	Туре	Value
ethanol; ethyl alcohol (CAS 64-17-5)	STEL	1900 mg/m3
	TWA	260 mg/m3
methanol (CAS 67-56-1)	TWA	133 mg/m3
Norway. Administrative Norms for Components	Contaminants in the Workpla Type	ice Value
ethanol; ethyl alcohol (CAS	TLV	950 mg/m3
64-17-5)		500
mathematic (CAS 67 56 1)		500 ppm
methanol (CAS 67-56-1)	TLV	130 mg/m3
		100 ppm
		n 6 June 2014 on the maximum permissible vork environment, Journal of Laws 2014, item 817 Value
concentrations and intensities of Components ethanol; ethyl alcohol (CAS	narmful health factors in the w	n 6 June 2014 on the maximum permissible vork environment, Journal of Laws 2014, item 817
concentrations and intensities of Components ethanol; ethyl alcohol (CAS 64-17-5)	narmful health factors in the w Type TWA	on 6 June 2014 on the maximum permissible vork environment, Journal of Laws 2014, item 817 Value 1900 mg/m3
concentrations and intensities of Components ethanol; ethyl alcohol (CAS	narmful health factors in the w Type TWA STEL	on 6 June 2014 on the maximum permissible work environment, Journal of Laws 2014, item 817 Value 1900 mg/m3 300 mg/m3
concentrations and intensities of Components ethanol; ethyl alcohol (CAS 64-17-5) methanol (CAS 67-56-1)	narmful health factors in the w Type TWA STEL TWA	on 6 June 2014 on the maximum permissible vork environment, Journal of Laws 2014, item 817 Value 1900 mg/m3 300 mg/m3 100 mg/m3
concentrations and intensities of Components ethanol; ethyl alcohol (CAS 64-17-5) methanol (CAS 67-56-1) Portugal. OELs. Decree-Law n. 290	narmful health factors in the w Type TWA STEL TWA	on 6 June 2014 on the maximum permissible vork environment, Journal of Laws 2014, item 817 Value 1900 mg/m3 300 mg/m3 100 mg/m3
concentrations and intensities of Components ethanol; ethyl alcohol (CAS 64-17-5)	narmful health factors in the v Type TWA STEL TWA D/2001 (Journal of the Republi	n 6 June 2014 on the maximum permissible vork environment, Journal of Laws 2014, item 817 Value 1900 mg/m3 300 mg/m3 100 mg/m3 c - 1 Series A, n.266)
concentrations and intensities of Components ethanol; ethyl alcohol (CAS 64-17-5) methanol (CAS 67-56-1) Portugal. OELs. Decree-Law n. 29 Components	narmful health factors in the v Type TWA STEL TWA D/2001 (Journal of the Republi Type	n 6 June 2014 on the maximum permissible vork environment, Journal of Laws 2014, item 817 Value 1900 mg/m3 300 mg/m3 100 mg/m3 c - 1 Series A, n.266) Value
concentrations and intensities of l Components ethanol; ethyl alcohol (CAS 64-17-5) methanol (CAS 67-56-1) Portugal. OELs. Decree-Law n. 290 Components methanol (CAS 67-56-1) Portugal. VLEs. Norm on occupati	narmful health factors in the w Type TWA STEL TWA D/2001 (Journal of the Republi Type TWA	n 6 June 2014 on the maximum permissible vork environment, Journal of Laws 2014, item 817 Value 1900 mg/m3 300 mg/m3 100 mg/m3 c - 1 Series A, n.266) Value 260 mg/m3 200 ppm
concentrations and intensities of I Components ethanol; ethyl alcohol (CAS 64-17-5) methanol (CAS 67-56-1) Portugal. OELs. Decree-Law n. 29 Components methanol (CAS 67-56-1) Portugal. VLEs. Norm on occupati Components ethanol; ethyl alcohol (CAS	narmful health factors in the w Type TWA STEL TWA D/2001 (Journal of the Republi Type TWA onal exposure to chemical ag	n 6 June 2014 on the maximum permissible vork environment, Journal of Laws 2014, item 817 Value 1900 mg/m3 300 mg/m3 100 mg/m3 c - 1 Series A, n.266) Value 260 mg/m3 200 ppm ents (NP 1796)
concentrations and intensities of Components ethanol; ethyl alcohol (CAS 64-17-5) methanol (CAS 67-56-1) Portugal. OELs. Decree-Law n. 29 Components	narmful health factors in the v Type TWA STEL TWA 0/2001 (Journal of the Republi Type TWA onal exposure to chemical ag Type	nn 6 June 2014 on the maximum permissible vork environment, Journal of Laws 2014, item 817 Value 1900 mg/m3 300 mg/m3 100 mg/m3 c - 1 Series A, n.266) Value 260 mg/m3 200 ppm ents (NP 1796) Value
concentrations and intensities of l Components ethanol; ethyl alcohol (CAS 64-17-5) methanol (CAS 67-56-1) Portugal. OELs. Decree-Law n. 29 Components methanol (CAS 67-56-1) Portugal. VLEs. Norm on occupati Components ethanol; ethyl alcohol (CAS 64-17-5)	narmful health factors in the w Type TWA STEL TWA D/2001 (Journal of the Republic Type TWA onal exposure to chemical ag Type TWA	n 6 June 2014 on the maximum permissible vork environment, Journal of Laws 2014, item 817 Value 1900 mg/m3 300 mg/m3 100 mg/m3 c - 1 Series A, n.266) Value 260 mg/m3 200 ppm ents (NP 1796) Value 1000 ppm
concentrations and intensities of l Components ethanol; ethyl alcohol (CAS 64-17-5) methanol (CAS 67-56-1) Portugal. OELs. Decree-Law n. 29 Components methanol (CAS 67-56-1) Portugal. VLEs. Norm on occupati Components ethanol; ethyl alcohol (CAS 64-17-5)	narmful health factors in the v Type TWA STEL TWA D/2001 (Journal of the Republic Type TWA TWA onal exposure to chemical ag Type TWA STEL TWA	An 6 June 2014 on the maximum permissible vork environment, Journal of Laws 2014, item 817 Value 1900 mg/m3 300 mg/m3 100 mg/m3 c - 1 Series A, n.266) Value 260 mg/m3 200 ppm ents (NP 1796) Value 1000 ppm 250 ppm 200 ppm
concentrations and intensities of l Components ethanol; ethyl alcohol (CAS 64-17-5) methanol (CAS 67-56-1) Portugal. OELs. Decree-Law n. 290 Components methanol (CAS 67-56-1) Portugal. VLEs. Norm on occupati Components ethanol; ethyl alcohol (CAS 64-17-5) methanol (CAS 67-56-1) Romania. OELs. Protection of wor	narmful health factors in the v Type TWA STEL TWA D/2001 (Journal of the Republic Type TWA onal exposure to chemical ag Type TWA STEL TWA STEL TWA	n 6 June 2014 on the maximum permissible vork environment, Journal of Laws 2014, item 817 Value 1900 mg/m3 300 mg/m3 100 mg/m3 c - 1 Series A, n.266) Value 260 mg/m3 200 ppm ents (NP 1796) Value 1000 ppm 250 ppm 200 ppm

Romania. OELs. Protection of work Components	Type	Value
	TWA	1900 mg/m3
		1000 ppm
nethanol (CAS 67-56-1)	TWA	260 mg/m3
		200 ppm
Poly(dimethylsiloxane) (CAS 63148-62-9)	STEL	300 mg/m3
	TWA	200 mg/m3
Slovakia. OELs. Regulation No. 300 Components)/2007 concerning protection of Type	health in work with chemical agents Value
ethanol; ethyl alcohol (CAS 64-17-5)	STEL	1920 mg/m3
		1000 ppm
	TWA	960 mg/m3
		500 ppm
nethanol (CAS 67-56-1)	TWA	260 mg/m3
		200 ppm
Slovenia. OELs. Regulations conce Official Gazette of the Republic of		ainst risks due to exposure to chemicals while working
Components	Туре	Value
ethanol; ethyl alcohol (CAS 64-17-5)	TWA	960 mg/m3
H= 11-0)		500 ppm
nethanol (CAS 67-56-1)	TWA	260 mg/m3
		200 ppm
Spain. Occupational Exposure Lim Components	its Type	Value
ethanol; ethyl alcohol (CAS	STEL	1910 mg/m3
64-17-5)		-
		1000 ppm
nethanol (CAS 67-56-1)	TWA	266 mg/m3
		200 ppm
Sweden Components	Туре	Value
Hydrocarbons, C7,	STEL (STV)	300 ppm
n-alkanes, isoalkanes, cyclic		
	TWA	200 ppm
Sweden. OELs. Work Environment Components	Authority (AV), Occupational E	xposure Limit Values (AFS 2015:7) Value
ethanol; ethyl alcohol (CAS	STEL	1900 mg/m3
64-17-5)		1000 ppm
	TWA	1000 mg/m3
		2
		500 ppm
nethanol (CAS 67-56-1)	STEL	500 ppm 350 mg/m3
nethanol (CAS 67-56-1)	STEL	350 mg/m3
nethanol (CAS 67-56-1)		350 mg/m3 250 ppm
nethanol (CAS 67-56-1)	STEL TWA	350 mg/m3 250 ppm 250 mg/m3
	TWA	350 mg/m3 250 ppm
methanol (CAS 67-56-1) Switzerland. SUVA Grenzwerte am Components	TWA	350 mg/m3 250 ppm 250 mg/m3

Switzerland. SUVA Grenzwerte am Arbeits	platz
Components	Туре

Components		Гуре		Value	
				1000 ppm	
	7	ΓWA		960 mg/m3	
				500 ppm	
methanol (CAS 67-56-1)	S	STEL		520 mg/m3	
				400 ppm	
	-	ΓWA		260 mg/m3	
				200 ppm	
UK. EH40 Workplace Exp	osure Limits (WEL	s)			
Components		Гуре		Value	
ethanol; ethyl alcohol (CAS 64-17-5)	3	ΓWA		1920 mg/m3	
				1000 ppm	
methanol (CAS 67-56-1)	Ş	STEL		333 mg/m3	
				250 ppm	
	7	ΓWA		266 mg/m3	
				200 ppm	
EU. Indicative Exposure	Limit Values in Dire	ectives 91/322/EE	C, 2000/39/EC, 20	006/15/EC, 2009/	161/EU, 2017/164/EU
Components	٦	Гуре		Value	
methanol (CAS 67-56-1)	-	ΓWA		260 mg/m3	
				200 ppm	
ogical limit values Croatia. BLV. Dangerous Components	Substance Exposi Value	ure Limit Values a Determinan	t Specimer	n Sampling	
Croatia. BLV. Dangerous Components	-		-	n Sampling	
Croatia. BLV. Dangerous Components	Value	Determinan	t Specimer Creatinine	in Sampling	
Croatia. BLV. Dangerous Components methanol (CAS 67-56-1)	Value 7 mg/g 24,7 mmol/mol	Determinan Methanol Methanol	t Specimer Creatinine urine Creatinine	in Sampling	
Croatia. BLV. Dangerous Components methanol (CAS 67-56-1) * - For sampling details, plo Czech Republic. Limit Va Government Decree 432/	Value 7 mg/g 24,7 mmol/mol ease see the source clues for Indictators 2003 Sb.	Determinan Methanol Methanol document. s of Biological Exp	t Specimer Creatinine urine Creatinine urine posure Tests in U	n Sampling	Time , Annex 2, Tables 1 and
Croatia. BLV. Dangerous Components methanol (CAS 67-56-1) * - For sampling details, plo Czech Republic. Limit Va Government Decree 432/ Components	Value 7 mg/g 24,7 mmol/mol ease see the source lues for Indictators 2003 Sb. Value	Determinan Methanol Methanol document. s of Biological Exp Determinan	t Specimer Creatinine urine Creatinine urine posure Tests in U t Specimer	n Sampling	Time , Annex 2, Tables 1 and
Croatia. BLV. Dangerous Components methanol (CAS 67-56-1) * - For sampling details, plo Czech Republic. Limit Va Government Decree 432/ Components	Value 7 mg/g 24,7 mmol/mol ease see the source clues for Indictators 2003 Sb.	Determinan Methanol Methanol document. s of Biological Exp	t Specimer Creatinine urine Creatinine urine posure Tests in U	n Sampling	Time , Annex 2, Tables 1 and
Croatia. BLV. Dangerous Components methanol (CAS 67-56-1) * - For sampling details, plo Czech Republic. Limit Va Government Decree 432/ Components methanol (CAS 67-56-1)	Value 7 mg/g 24,7 mmol/mol ease see the source alues for Indictators 2003 Sb. Value 15 mg/l 0,47 mmol/l	Determinan Methanol Methanol document. of Biological Exp Determinan Methanol Methanol	t Specimer Creatinine urine Creatinine urine posure Tests in U t Specimer	n Sampling	Time , Annex 2, Tables 1 and
Croatia. BLV. Dangerous Components methanol (CAS 67-56-1) * - For sampling details, plo Czech Republic. Limit Va Government Decree 432/ Components methanol (CAS 67-56-1)	Value 7 mg/g 24,7 mmol/mol ease see the source slues for Indictators 2003 Sb. Value 15 mg/l 0,47 mmol/l ease see the source	Determinan Methanol Methanol document. of Biological Exp Determinan Methanol Methanol document.	t Specimer Creatinine urine Creatinine urine toosure Tests in U t Specimer Urine Urine	n Sampling in * Jrine and Blood n Sampling *	Time , Annex 2, Tables 1 and Time
Croatia. BLV. Dangerous Components methanol (CAS 67-56-1) * - For sampling details, pla Czech Republic. Limit Va Government Decree 432/ Components methanol (CAS 67-56-1) * - For sampling details, pla France. Biological indica	Value 7 mg/g 24,7 mmol/mol ease see the source slues for Indictators 2003 Sb. Value 15 mg/l 0,47 mmol/l ease see the source	Determinan Methanol Methanol document. of Biological Exp Determinan Methanol Methanol document.	t Specimer Creatinine urine Creatinine urine Dosure Tests in U t Specimer Urine Urine Urine	n Sampling in * Jrine and Blood n Sampling * h and Security (Time , Annex 2, Tables 1 and Time (INRS, ND 2065)
Croatia. BLV. Dangerous Components methanol (CAS 67-56-1) * - For sampling details, plo Czech Republic. Limit Va Government Decree 432/ Components methanol (CAS 67-56-1) * - For sampling details, plo France. Biological indica Components methanol (CAS 67-56-1)	Value 7 mg/g 24,7 mmol/mol ease see the source alues for Indictators 2003 Sb. Value 15 mg/l 0,47 mmol/l ease see the source tors of exposure (II Value 15 mg/l	Determinan Methanol Methanol document. s of Biological Exp Determinan Methanol document. BE) (National Inst Determinan Méthanol	t Specimer Creatinine urine Creatinine urine toosure Tests in U t Specimer Urine Urine itute for Researc	n Sampling in * Jrine and Blood n Sampling * h and Security (Time , Annex 2, Tables 1 and Time (INRS, ND 2065)
Croatia. BLV. Dangerous Components methanol (CAS 67-56-1) * - For sampling details, pla Czech Republic. Limit Va Government Decree 432/ Components methanol (CAS 67-56-1) * - For sampling details, pla France. Biological indica Components methanol (CAS 67-56-1) * - For sampling details, pla	Value 7 mg/g 24,7 mmol/mol ease see the source alues for Indictators 2003 Sb. Value 15 mg/l 0,47 mmol/l ease see the source tors of exposure (II Value 15 mg/l ease see the source	Determinan Methanol Methanol document. of Biological Exp Determinan Methanol document. BE) (National Inst Determinan Méthanol document.	t Specimer Creatinine urine Creatinine urine oosure Tests in U t Specimer Urine Urine itute for Researc t Specimer	n Sampling in * in * Jrine and Blood n Sampling * th and Security (n Sampling	Time , Annex 2, Tables 1 and Time (INRS, ND 2065)
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* - For sampling details, please see the source document.

Components	Value	Determinant	Specimen	Sampling	g Time
methanol (CAS 67-56-1)	20 mg/g	Methanol	Creatinine in urine	*	
	30 mg/l	Methanol	Urine	*	
* - For sampling details, pl	ease see the sou	urce document.			
Spain. Biological Limit V Components	alues (VLBs), C Value	Occupational Exposure I Determinant	imits for Chemica. Specimen	al Agents, ⁻ Sampling	
methanol (CAS 67-56-1)	15 mg/l	Metanol	Urine	*	
* - For sampling details, pl	ease see the sou	urce document.			
Switzerland. BAT-Werte Components	(Biological Limi Value	it Values in the Workpla Determinant	ce as per SUVA) Specimen	Sampling	g Time
methanol (CAS 67-56-1)	30 mg/l	Methanol	Urine	*	
* - For sampling details, pl	•	urce document.			
commended monitoring cedures rived no effect levels (DNE		ndard monitoring procedu	es.		
<u>General population</u>					
Components		Value	Assessm	ent factor	Notes
ethanol; ethyl alcohol (CAS	S 64-17-5)				
Long-term, Systemic,		206 mg/kg bw/day	40		Repeated dose toxicity
Long-term, Systemic,		87 mg/kg bw/day	20		Repeated dose toxicity
Short-term, Local, Inh	alation	950 mg/m3			respiratory tract irritation
methanol (CAS 67-56-1)	alation	E0 m = /== 0	F		A outo tovicity
Long-term, Local, Inha Short-term, Local, Inh		50 mg/m3 50 mg/m3	5 5		Acute toxicity Acute toxicity
Short-term, Systemic,		8 mg/kg bw/day	5		Acute toxicity
<u>Workers</u>		5 5 ,			,
Components		Value	Assessm	ent factor	Notes
ethanol; ethyl alcohol (CAS	S 64-17-5)				
Long-term, Systemic, Long-term, Systemic, Short-term, Local, Inh	Dermal Inhalation	343 mg/kg bw/day 950 mg/m3 1900 mg/m3	24		Repeated dose toxicity respiratory tract irritation
methanol (CAS 67-56-1)					
Long-term, Local, Inha	alation	260 mg/m3			Acute toxicity
Short-term, Local, Inh		260 mg/m3			Acute toxicity
Short-term, Systemic,		40 mg/kg bw/day			Acute toxicity
edicted no effect concentra	ations (PNECs)		-		
Components		Value	Assessm	ent factor	Notes
ethanol; ethyl alcohol (CAS	5 64-17-5)	0.06	40		
Freshwater Sediment (marine wat	er)	0,96 mg/l 2,9 mg/kg	10		
Soil		2,9 mg/kg 0,63 mg/kg	1000		
methanol (CAS 67-56-1)					
Freshwater		20,8 mg/l	10		
Sediment (freshwater))	77 mg/kg			
Soil		100 mg/kg	10		
STP		100 mg/l	10		
posure guidelines					
Austria MAK: Skin desig		-			
methanol (CAS 67-56 Belgium OELs: Skin des	,	Can	be absorbed throug	gh the skin.	
methanol (CAS 67-56	-	Can	be absorbed throug	ah the skin	
Bulgaria OELs: Skin des	ignation			-	
methanol (CAS 67-56	,	Can	be absorbed throug	gh the skin.	
Croatia ELVs: Skin desig					
methanol (CAS 67-56		Can	be absorbed throug	gh the skin.	

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rkers against risks due to exposure to chemicals while working
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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. Provide eyewash station and safety shower.
Individual protection measures, s	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. Nitrile gloves are recommended. Suitable gloves can be recommended by the glove supplier.
- Other	Wear appropriate chemical resistant clothing.
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.
Hygiene measures	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.
Environmental exposure controls	Inform appropriate managerial or supervisory personnel of all environmental releases. 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

of the internation of the basic physics	ar and ononnour proportioo
Physical state	Liquid.
Form	Aerosol.
Colour	Colourless.
Odour	Odourless.
Melting point/freezing point	Not available.
Boiling point or initial boiling point and boiling range	77 °C (170,6 °F)
Flammability	Not available.
Upper/lower flammability or exp	losive limits
Explosive limit - lower (%)	1,1 %
Explosive limit – upper (%)	19 %
Flash point	-4,0 °C (24,8 °F)
Auto-ignition temperature	> 200 °C (> 392 °F)
Decomposition temperature	Not available.
рН	Not applicable.
Kinematic viscosity	Not available.
Solubility	
Solubility (water)	Insoluble in water
Partition coefficient (n-octanol/water) (log value)	Not available.
Vapour pressure	Not available.
Density and/or relative density	
Relative density	0,77 g/cm3 20 °C
Vapour density	Not available.
Particle characteristics	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

Evaporation rateNot available.VOC562 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability	Material is stable under normal conditions.
10.3. Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
10.4. Conditions to avoid	Avoid temperatures exceeding the flash point. Contact with incompatible materials.
10.5. Incompatible materials	Strong oxidising agents.
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 e	xposure
Inhalation	May cause drowsiness or dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be harmful.
Skin contact	Causes skin irritation.
Eye contact	Direct contact with eyes may cause temporary irritation.
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. Skin irritation. May cause redness and pain.

11.1. Information on toxicological effects

Acute toxicity Based on available data, the classification criteria are not met.		
Components	Species	Test Results
ethanol; ethyl alcohol (CAS 64-	-17-5)	
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 15800 mg/kg
Inhalation		
LC50	Rat	116,8 - 133,8 mg/l, 4 h
Oral		
LD50	Rat	10470 mg/kg
Hydrocarbons, C7, n-alkanes,is	soalkanes, cyclic	
Acute		
Dermal	Det	
LD50	Rat	2920 mg/kg
Inhalation LC50	Det	22.2 mg/l
	Rat	23,3 mg/l
Oral LD50	Rat	5840 mg/kg
	Rat	5640 mg/kg
methanol (CAS 67-56-1)		
<u>Acute</u> Dermal		
LD50	Rabbit	15800 mg/kg
Inhalation		
LC50	Rat	87,5 mg/l, 6 Hours
Oral		
LD50	Rat	5628 mg/kg
Skin corrosion/irritation	Causes skin irritation.	0.0
Serious eye damage/eye irritation	Direct contact with eyes may cause	se temporary irritation.
Respiratory sensitisation	Based on available data, the clas	sification criteria are not met.

Skin sensitisation		ilable data, the classification criteria are no		
Germ cell mutagenicity	Based on available data, the classification criteria are not met.			
Carcinogenicity		ilable data, the classification criteria are no		
Hungary. 26/2000 EüM Ord (as amended) Not listed.	inance on prote	ction against and preventing risk relatir	ng to exposure to carcinogens at work	
Reproductive toxicity	Based on avai	Based on available data, the classification criteria are not met.		
Specific target organ toxicity - single exposure	May cause dro	May cause drowsiness or dizziness.		
Specific target organ toxicity - repeated exposure	Based on avai	ilable data, the classification criteria are no	ot met.	
Aspiration hazard	Based on avai	ilable data, the classification criteria are no	ot met.	
Mixture versus substance information	Not available.			
11.2. Information on other haza				
Endocrine disrupting properties	according to R	oes not contain components considered to REACH Article 57(f) or regulation (EU) 201 evels of 0.1% or higher.		
Other information	Not available.			
SECTION 12: Ecological	information			
12.1. Toxicity	Toxic to aquat	ic life with long lasting effects.		
Components		Species	Test Results	
ethanol; ethyl alcohol (CAS 64-17 Acute	7-5)			
	EC50	Selenastrum capricornutum (new name Pseudokirchneriella subcapitata)	> 100 mg/l, 48 hours	
Aquatic				
Acute				
Crustacea	EC50	Daphnia magna	12340 mg/l, 48 hours	
Fish	LC50	Leuciscus idus	> 100 mg/l, 48 hours	
		Oncorhynchus mykiss	13000 mg/l, 96 hours	
		Oryzias latipes	12000 - 16000 mg/l, 96 hours	
		Pimephales promelas	14200 mg/l, 96 hours	
<i>Chronic</i> Crustacea	NOEC	Daphnia magna	9,6 mg/l, 9 days	
Hydrocarbons, C7, n-alkanes,isoa		Daprina magna	5,0 mg/i, 5 days	
Aquatic Acute				
Crustacea	EC50	Daphnia	3 mg/l, 48 hours	
Fish	LC50	Fish	> 13,4 mg/l, 96 hours	
<i>Chronic</i> Crustacea	NOEC	Daphnia	0,17 mg/l, 21 days	
methanol (CAS 67-56-1)	NOLO	Daprina	0, 17 mg/i, 21 days	
Aquatic Acute				
Crustacea	EC50	Water flea (Daphnia magna)	> 10000 mg/l, 48 hours	
Fish	LC50	Fathead minnow (Pimephales promelas)		
12.2. Persistence and degradability		ailable on the degradability of any ingredie	-	
12.3. Bioaccumulative potentia	4			
Partition coefficient				
n-octanol/water (log Kow) ethanol; ethyl alcohol		-0,31		
methanol	Not available	-0,77		
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	The product contains volatile organic compounds which have a photochemical ozone creation potential. GWP: 2		
12.8. Additional information			
Estonia Dangerous substan	ces in soil Data		
ethanol; ethyl alcohol (CA	NS 64-17-5)	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	
		Chemical pesticides (As the total sum of the active substances) 5 mg/kg	
methanol (CAS 67-56-1)		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	
		Chemical pesticides (As the total sum of the active substances) 5 mg/kg	

SECTION 13: Disposal considerations

13.1. Waste treatment methods	
Residual waste	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).
Contaminated packaging	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.
EU waste code	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Disposal methods/information	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Special precautions	Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

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

14.5. Environmental hazards ERG Code 14.6. Special precautions for user	Yes 10L Read safety instructions, SDS and emergency procedures before handling.		
Other information			
Passenger and cargo aircraft	Allowed with restrictions.		
Cargo aircraft only	Allowed with restrictions.		
IMDG			
14.1. UN number	UN1950		
14.2. UN proper shipping	Aerosols, flammable, Marine pollutant		
	name		
14.3. Transport hazard class	14.3. Transport hazard class(es)		
Class	2.1		
Subsidiary risk	Not assigned.		
14.4. Packing group	Not assigned.		
14.5. Environmental hazards			
Marine pollutant	Yes		
EmS	F-D, S-U		
14.6. Special precautions	Read safety instructions, SDS and emergency procedures before handling.		
for user			
14.7. Maritime transport in bulk according to IMO instruments	Not established.		
ADR; IATA; IMDG			



Marine pollutant



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 Not listed.

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 ethanol; ethyl alcohol (CAS 64-17-5)

methanol (CAS 67-56-1)

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

ethanol; ethyl alcohol (CAS 64-17-5) methanol (CAS 67-56-1)

Other regulations

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

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. TLV: Threshold Limit Value. TWA: Time Weighted Average. VLE: Exposure Limit Value. VME: Exposure Average Value. VOC: Volatile organic compounds. vPvB: Very persistent and very bioaccumulative. STEL: Short-term Exposure Limit.
References	Not available.
Information on evaluation method leading to the	The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

In m classification of mixture

Full text of any statements, which are not written out in full under sections 2 to 15	 H225 Highly flammable liquid and vapour. H301 Toxic if swallowed. H304 May be fatal if swallowed and enters airways. H311 Toxic in contact with skin. H315 Causes skin irritation. H319 Causes serious eye irritation. H331 Toxic if inhaled. H336 May cause drowsiness or dizziness. H370 Causes damage to organs. H411 Toxic to aquatic life with long lasting effects.
Revision information	None.
Training information	Follow training instructions when handling this material.
Disclaimer	CRC Industries Europe UK Limited cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available. Apart from any fair dealing for purposes of study, research and review of health, safety and environmental risks, no part of these documents may be reproduced by any process without written permission from CRC. The products are governed by Regulation (EC) No 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP); Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (in each case, as amended and replaced) and other applicable laws. It is an importers or downstream users responsibility to ensure compliance of product they import. An SDS provided in the official language(s) of a country is not a guarantee of compliance in that country.