

Version #: 1,0

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

1.1. Product identifier

Trade name or designation of the mixture Corrosion inhibitor

Registration number -

Synonyms None.

Product code UDS000523AE

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

Identified uses Anti Corrosion Products

Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

Company name CRC Industries UK Ltd.
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

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.:(+44)(0)1278 72 7200 (office hours: 9-17h GMT)

Austria National Poisons Information Centre +431 406 4343 (Available 24 hours a day.)

Belgium National Poisons Control Center 070 245 245 (Available 24 hours a day.)

Bulgaria National Toxicological Information Centre +359 2 9154233 (Available 24 hours a day.)

Czech Republic National Poisons Information Centre +420 224 919 293, or +420 224 915 402 (Hours of operation not provided.)

Denmark National Poisons Control Center +45 82 12 12 12 (Available 24 hours a day.)

Estonia National Poisons Information Centre 16662 or abroad: (+372) 626 9390 (Monday 9:00AM to Saturday 9:00AM (closed on Sundays and on national holidays))

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.
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Health hazards

Serious eye damage/eye irritation	Category 2	H319 - Causes serious eye irritation.
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Environmental hazards

Hazardous to the aquatic environment, long-term aquatic hazard	Category 2	H411 - Toxic to aquatic life with long lasting effects.
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2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Hazard pictograms



Signal word

Danger

Hazard statements

H222	Extremely flammable aerosol.
H229	Pressurized container: May burst if heated.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.

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.

Response

Not assigned.

Storage

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

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

EUH066 - Repeated exposure may cause skin dryness or cracking.
EUH208 - Contains Benzene, mono-C10-13 alkyl derivs, disulfonated. May produce an allergic reaction.

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, C10-C12, Isoalkanes, less than 2% aromatics	60 - 100	- 923-037-2	01-2119471991-29	-	
Classification: Flam. Liq. 3;H226, Asp. Tox. 1;H304, Aquatic Chronic 2;H411					
Carbon dioxide	1 - 5	124-38-9 204-696-9	-	-	#
Classification: Press. Gas;H280					
Dipropylene glycol monomethyl ether	1 - 5	34590-94-8 252-104-2	01-2119450011-60	-	#
Classification: -					
ethanol; ethyl alcohol	1 - 5	64-17-5 200-578-6	01-2119457610-43	603-002-00-5	
Classification: Flam. Liq. 2;H225, Eye Irrit. 2;H319					
Specific Concentration Limits: Eye Irrit. 2;H319: C >= 50 %					
1H-Imidazole-1-ethanol, 2-(8-heptadecenyl)-4,5-dihydro-	0 - 1	95-38-5 202-414-9	01-2119777867-13	-	
Classification: Acute Tox. 4;H302;(ATE: 1265 mg/kg bw), Skin Corr. 1C;H314, Eye Dam. 1;H318, STOT RE 2;H373, Aquatic Acute 1;H400(M=10), Aquatic Chronic 1;H410(M=10)					
Benzene, mono-C10-13 alkyl derivs, disulfonated	<1,0	EC947-582-0-1 947-582-0	01-2120767409-42	-	
Classification: Skin Sens. 1B;H317					
Glycine, N-methyl-N-(1-oxo-9-octadecenyl)-, (Z)-	0 - 1	110-25-8 203-749-3	01-2119488991-20	-	
Classification: Acute Tox. 4;H332;(ATE: 11 mg/l), Skin Irrit. 2;H315, Eye Dam. 1;H318, Aquatic Acute 1;H400					

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

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

Material name: CORROSION INHIBITOR - Ambersil - europe

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4.1. Description of first aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
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

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

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

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, protective equipment and emergency procedures

For non-emergency personnel Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

For emergency responders Keep unnecessary personnel away. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. Use personal protection recommended in 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 entry into waterways, sewer, basements or confined areas. 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 contact with eyes. 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), BGBl. II, no. 184/2001

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	Ceiling	18000 mg/m3
		10000 ppm
	MAK	9000 mg/m3
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	Ceiling	5000 ppm
		614 mg/m3
	MAK	100 ppm
ethanol; ethyl alcohol (CAS 64-17-5)	Ceiling	307 mg/m3
		50 ppm
	MAK	3800 mg/m3
		2000 ppm
		1900 mg/m3
		1000 ppm

Belgium. Exposure Limit Values

Components	Type	Value	Form
Carbon dioxide (CAS 124-38-9)	STEL	54784 mg/m3	
		30000 ppm	
	TWA	9131 mg/m3	
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	TWA	5000 ppm	
		308 mg/m3	
		50 ppm	
Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil — unspecified [complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers pr (CAS 64742-52-5)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
	TWA	1907 mg/m3	
ethanol; ethyl alcohol (CAS 64-17-5)		1000 ppm	

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

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

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

Components	Type	Value
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	TWA	5000 ppm 308 mg/m3
Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil — unspecified [complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers pr (CAS 64742-52-5)	TWA	50 ppm 5 mg/m3
ethanol; ethyl alcohol (CAS 64-17-5)	TWA	1000 mg/m3

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

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	MAC	9000 mg/m3
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	MAC	5000 ppm 308 mg/m3
ethanol; ethyl alcohol (CAS 64-17-5)	MAC	50 ppm 1900 mg/m3
		1000 ppm

Czech Republic. OELs. Government Decree 361

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	Ceiling	45000 mg/m3
	TWA	9000 mg/m3
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	Ceiling	550 mg/m3
	TWA	270 mg/m3
ethanol; ethyl alcohol (CAS 64-17-5)	Ceiling	3000 mg/m3
	TWA	1000 mg/m3

Denmark. Exposure Limit Values

Components	Type	Value	Form
Carbon dioxide (CAS 124-38-9)	TLV	9000 mg/m3	
		5000 ppm	
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	TLV	309 mg/m3	
		50 ppm	

Denmark. Exposure Limit Values

Components	Type	Value	Form
Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil — unspecified [complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers pr (CAS 64742-52-5)	TLV	1 mg/m3	Mist.
ethanol; ethyl alcohol (CAS 64-17-5)	TLV	1900 mg/m3 1000 ppm	

Estonia. OELs. Occupational Exposure Limits of Hazardous Substances (Regulation No. 105/2001, Annex), as amended

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3 5000 ppm
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	TWA	308 mg/m3 50 ppm
ethanol; ethyl alcohol (CAS 64-17-5)	STEL	1900 mg/m3 1000 ppm
	TWA	1000 mg/m3 500 ppm

Finland. Workplace Exposure Limits

Components	Type	Value	Form
Carbon dioxide (CAS 124-38-9)	TWA	9100 mg/m3 5000 ppm	
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	TWA	310 mg/m3 50 ppm	
Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil — unspecified [complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers pr (CAS 64742-52-5)	TWA	5 mg/m3	Mist.
ethanol; ethyl alcohol (CAS 64-17-5)	STEL	2500 mg/m3 1300 ppm	
	TWA	1900 mg/m3 1000 ppm	

France. OELs. Indicative Occupational Exposure Limits as Prescribed by Order of 30 June 2004, as amended

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

France. OELs. Indicative Occupational Exposure Limits as Prescribed by Order of 30 June 2004, as amended

Components	Type	Value
		5000 ppm
		5000 ppm

France. OELs. Occupational Exposure Limits as Prescribed by Art. R.4412-149 of Labor Code, as amended

Components	Type	Value
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	VME	308 mg/m3
		50 ppm

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

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	VME	9000 mg/m3
Regulatory status:	Regulatory indicative (VRI)	
		5000 ppm
Regulatory status:	Regulatory indicative (VRI)	
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	VME	308 mg/m3
Regulatory status:	Regulatory binding (VRC)	
		50 ppm
Regulatory status:	Regulatory binding (VRC)	
ethanol; ethyl alcohol (CAS 64-17-5)	VLE	9500 mg/m3
Regulatory status:	Indicative limit (VL)	
		5000 ppm
Regulatory status:	Indicative limit (VL)	
	VME	1900 mg/m3
Regulatory status:	Indicative limit (VL)	
		1000 ppm
Regulatory status:	Indicative limit (VL)	

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

Components	Type	Value	Form
Carbon dioxide (CAS 124-38-9)	TWA	9100 mg/m3	
		5000 ppm	
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	TWA	310 mg/m3	Vapour.
		50 ppm	Vapour.
Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil — unspecified [complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers pr (CAS 64742-52-5)	TWA	5 mg/m3	Respirable fraction.
ethanol; ethyl alcohol (CAS 64-17-5)	TWA	380 mg/m3	
		200 ppm	
Glycine, N-methyl-N-(1-oxo-9-octadecenyl)-, (Z)- (CAS 110-25-8)	TWA	0,05 mg/m3	Inhalable fraction.

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

Components	Type	Value	Form
Carbon dioxide (CAS 124-38-9)	AGW	9100 mg/m3	
		5000 ppm	
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	AGW	310 mg/m3	Vapour and aerosol.
		50 ppm	Vapour and aerosol.
ethanol; ethyl alcohol (CAS 64-17-5)	AGW	380 mg/m3	
		200 ppm	
Glycine, N-methyl-N-(1-oxo-9-octadecenyl)-, (Z)- (CAS 110-25-8)	AGW	0,5 mg/m3	Inhalable fraction.

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

Components	Type	Value	Form
Carbon dioxide (CAS 124-38-9)	STEL	54000 mg/m3	
		5000 ppm	
	TWA	9000 mg/m3	
		5000 ppm	
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	STEL	900 mg/m3	
		150 ppm	
	TWA	600 mg/m3	
		100 ppm	
Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil — unspecified [complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers pr (CAS 64742-52-5)	TWA	5 mg/m3	Mist.
ethanol; ethyl alcohol (CAS 64-17-5)	TWA	1900 mg/m3	
		1000 ppm	

Hungary. OELs. Joint Decree on Chemical Safety of Workplaces

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	TWA	308 mg/m3
Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil — unspecified [complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers pr (CAS 64742-52-5)	TWA	5 mg/m3

Hungary. OELs. Joint Decree on Chemical Safety of Workplaces

Components	Type	Value
ethanol; ethyl alcohol (CAS 64-17-5)	STEL	3800 mg/m3
	TWA	1900 mg/m3

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

Components	Type	Value	Form
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3	
		5000 ppm	
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	TWA	300 mg/m3	
		50 ppm	
Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil — unspecified [complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers pr (CAS 64742-52-5)	TWA	1 mg/m3	Mist.
ethanol; ethyl alcohol (CAS 64-17-5)	TWA	1900 mg/m3	
		1000 ppm	

Ireland. Occupational Exposure Limits

Components	Type	Value	Form
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3	
		5000 ppm	
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	TWA	308 mg/m3	
		50 ppm	
Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil — unspecified [complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers pr (CAS 64742-52-5)	TWA	5 mg/m3	Inhalable fraction.
ethanol; ethyl alcohol (CAS 64-17-5)	STEL	1000 ppm	

Italy. Occupational Exposure Limits

Components	Type	Value	Form
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3	
		5000 ppm	
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	TWA	308 mg/m3	
		50 ppm	

Italy. Occupational Exposure Limits

Components	Type	Value	Form
Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil — unspecified [complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers pr (CAS 64742-52-5)	TWA	5 mg/m3	Inhalable fraction.
ethanol; ethyl alcohol (CAS 64-17-5)	STEL	1000 ppm	

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

Components	Type	Value	
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3	
		5000 ppm	
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	TWA	308 mg/m3	
		50 ppm	
Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil — unspecified [complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers pr (CAS 64742-52-5)	TWA	5 mg/m3	
ethanol; ethyl alcohol (CAS 64-17-5)	TWA	1000 mg/m3	

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

Components	Type	Value	Form
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3	
		5000 ppm	
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	STEL	450 mg/m3	
		75 ppm	
	TWA	308 mg/m3	
		50 ppm	
Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil — unspecified [complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers pr (CAS 64742-52-5)	STEL	3 mg/m3	Fume and mist.
	TWA	1 mg/m3	Fume and mist.
ethanol; ethyl alcohol (CAS 64-17-5)	STEL	1900 mg/m3	

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

Components	Type	Value	Form
		1000 ppm	
	TWA	1000 mg/m3	
		500 ppm	

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

Components	Type	Value	Form
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3	
		5000 ppm	
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	TWA	308 mg/m3	
		50 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	Form
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3	
		5000 ppm	
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	TWA	308 mg/m3	
		50 ppm	

Netherlands. OELs (binding)

Components	Type	Value	Form
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3	
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	TWA	300 mg/m3	
Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil — unspecified [complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers pr (CAS 64742-52-5)	TWA	5 mg/m3	Mist.
ethanol; ethyl alcohol (CAS 64-17-5)	STEL	1900 mg/m3	
	TWA	260 mg/m3	

Norway. Administrative Norms for Contaminants in the Workplace

Components	Type	Value	Form
Carbon dioxide (CAS 124-38-9)	TLV	9000 mg/m3	
		5000 ppm	
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	TLV	300 mg/m3	
		50 ppm	

Norway. Administrative Norms for Contaminants in the Workplace

Components	Type	Value	Form
Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil — unspecified [complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers pr (CAS 64742-52-5)	TLV	1 mg/m3	Mist.
ethanol; ethyl alcohol (CAS 64-17-5)	TLV	950 mg/m3 500 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	Form
Carbon dioxide (CAS 124-38-9)	STEL	27000 mg/m3	
	TWA	9000 mg/m3	
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	STEL	480 mg/m3	
	TWA	240 mg/m3	
Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil — unspecified [complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers pr (CAS 64742-52-5)	TWA	5 mg/m3	Inhalable fraction.
ethanol; ethyl alcohol (CAS 64-17-5)	TWA	1900 mg/m3	

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

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3 5000 ppm
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	TWA	308 mg/m3 50 ppm

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

Components	Type	Value	Form
Carbon dioxide (CAS 124-38-9)	STEL	30000 ppm	
	TWA	5000 ppm	
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	STEL	150 ppm	
	TWA	100 ppm	

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

Components	Type	Value	Form
Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil — unspecified [complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers pr (CAS 64742-52-5)	TWA	5 mg/m3	Inhalable fraction.
ethanol; ethyl alcohol (CAS 64-17-5)	TWA	1000 ppm	

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

Components	Type	Value	
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3	
		5000 ppm	
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	TWA	308 mg/m3	
		50 ppm	
Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil — unspecified [complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers pr (CAS 64742-52-5)	STEL	10 mg/m3	
	TWA	5 mg/m3	
ethanol; ethyl alcohol (CAS 64-17-5)	STEL	9500 mg/m3	
		5000 ppm	
	TWA	1900 mg/m3	
		1000 ppm	

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

Components	Type	Value	Form
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3	
		5000 ppm	
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	TWA	308 mg/m3	
		50 ppm	
Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil — unspecified [complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers pr (CAS 64742-52-5)	STEL	3 mg/m3	Fume and mist.
		15 ppm	Fume and mist.

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

Components	Type	Value	Form
ethanol; ethyl alcohol (CAS 64-17-5)	TWA	1 mg/m3	Fume and mist.
		5 ppm	Fume and mist.
	STEL	1920 mg/m3	
		1000 ppm	
	TWA	960 mg/m3	
		500 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
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3
		5000 ppm
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	TWA	308 mg/m3
		50 ppm
ethanol; ethyl alcohol (CAS 64-17-5)	TWA	960 mg/m3
		500 ppm

Spain. Occupational Exposure Limits

Components	Type	Value	Form
Carbon dioxide (CAS 124-38-9)	TWA	9150 mg/m3	
		5000 ppm	
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	TWA	308 mg/m3	
		50 ppm	
Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil — unspecified [complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers pr (CAS 64742-52-5)	STEL	10 mg/m3	Mist.
ethanol; ethyl alcohol (CAS 64-17-5)	TWA	5 mg/m3	Mist.
	STEL	1910 mg/m3	
		1000 ppm	

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

Components	Type	Value	Form
Carbon dioxide (CAS 124-38-9)	STEL	18000 mg/m3	
		10000 ppm	
	TWA	9000 mg/m3	
		5000 ppm	
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	STEL	450 mg/m3	
		75 ppm	
	TWA	300 mg/m3	

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

Components	Type	Value	Form
Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil — unspecified [complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers pr (CAS 64742-52-5)	STEL	50 ppm 3 mg/m3	Mist.
	TWA	1 mg/m3	Mist.
	STEL	1900 mg/m3	
ethanol; ethyl alcohol (CAS 64-17-5)	TWA	1000 ppm 1000 mg/m3 500 ppm	

Switzerland. SUVA Grenzwerte am Arbeitsplatz

Components	Type	Value	Form
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3	
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	STEL	5000 ppm 300 mg/m3	Vapour and aerosol.
	TWA	50 ppm 300 mg/m3	Vapour and aerosol.
	TWA	50 ppm 5 mg/m3	Vapour and aerosol. Inhalable fraction.
Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil — unspecified [complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers pr (CAS 64742-52-5)	STEL	1920 mg/m3	
	TWA	1000 ppm 960 mg/m3 500 ppm	
	STEL	0,2 mg/m3	Inhalable fraction.
Glycine, N-methyl-N-(1-oxo-9-octadecenyl)-, (Z)- (CAS 110-25-8)	TWA	0,1 mg/m3	Inhalable fraction.

UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	STEL	27400 mg/m3
	TWA	15000 ppm 9150 mg/m3 5000 ppm

UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	TWA	308 mg/m ³
		50 ppm
ethanol; ethyl alcohol (CAS 64-17-5)	TWA	1920 mg/m ³
		1000 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
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m ³
		5000 ppm
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	TWA	308 mg/m ³
		50 ppm

Biological limit values No biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures Follow standard monitoring procedures.

Derived no effect levels (DNELs)**General population**

Components	Value	Assessment factor	Notes
Dipropylene glycol monomethyl ether (CAS 34590-94-8)			
Long-term, Systemic, Dermal	121 mg/kg bw/day	16,8	Repeated dose toxicity
Long-term, Systemic, Inhalation	37,2 mg/m ³		Repeated dose toxicity
Long-term, Systemic, Oral	0,33 mg/kg bw/day	600	Repeated dose toxicity
ethanol; ethyl alcohol (CAS 64-17-5)			
Long-term, Systemic, Dermal	206 mg/kg bw/day	40	Repeated dose toxicity
Long-term, Systemic, Oral	87 mg/kg bw/day	20	Repeated dose toxicity
Short-term, Local, Inhalation	950 mg/m ³		respiratory tract irritation

Workers

Components	Value	Assessment factor	Notes
1H-Imidazole-1-ethanol, 2-(8-heptadecenyl)-4,5-dihydro- (CAS 95-38-5)			
Long-term, Systemic, Dermal	0,06 mg/kg	300	Repeated dose toxicity
Long-term, Systemic, Inhalation	0,46 mg/m ³	75	Repeated dose toxicity
Short-term, Systemic, Dermal	2 mg/kg	10	Repeated dose toxicity
Short-term, Systemic, Inhalation	14 mg/m ³	2,5	Repeated dose toxicity
Dipropylene glycol monomethyl ether (CAS 34590-94-8)			
Long-term, Systemic, Dermal	283 mg/kg bw/day	10,08	Repeated dose toxicity
Long-term, Systemic, Inhalation	308 mg/m ³		Repeated dose toxicity
ethanol; ethyl alcohol (CAS 64-17-5)			
Long-term, Systemic, Dermal	343 mg/kg bw/day	24	Repeated dose toxicity
Long-term, Systemic, Inhalation	950 mg/m ³		
Short-term, Local, Inhalation	1900 mg/m ³		respiratory tract irritation

Predicted no effect concentrations (PNECs)

Components	Value	Assessment factor	Notes
1H-Imidazole-1-ethanol, 2-(8-heptadecenyl)-4,5-dihydro- (CAS 95-38-5)			
Freshwater	0 mg/l	1000	
Marine water	0 mg/l	10000	
Sediment (freshwater)	0,376 mg/kg		
Sediment (marine water)	0,038 mg/kg		
Soil	0,075 mg/kg		
STP	0,27 mg/l	100	
Dipropylene glycol monomethyl ether (CAS 34590-94-8)			
Freshwater	19,2 mg/l	100	
Intermittent releases	192 mg/l	10	
Marine water	1,92 mg/l	1000	
Sediment (freshwater)	70,2 mg/kg		

Soil	2,74 mg/kg	
ethanol; ethyl alcohol (CAS 64-17-5)		
Freshwater	0,96 mg/l	10
Sediment (marine water)	2,9 mg/kg	
Soil	0,63 mg/kg	1000

Exposure guidelines

Austria MAK: Skin designation

Dipropylene glycol monomethyl ether (CAS 34590-94-8) Can be absorbed through the skin.

Belgium OELs: Skin designation

Dipropylene glycol monomethyl ether (CAS 34590-94-8) Can be absorbed through the skin.

Bulgaria OELs: Skin designation

Dipropylene glycol monomethyl ether (CAS 34590-94-8) Can be absorbed through the skin.

Croatia ELVs: Skin designation

Dipropylene glycol monomethyl ether (CAS 34590-94-8) Can be absorbed through the skin.

Czech Republic PELs: Skin designation

Dipropylene glycol monomethyl ether (CAS 34590-94-8) Can be absorbed through the skin.

Denmark GV: Skin designation

Dipropylene glycol monomethyl ether (CAS 34590-94-8) Can be absorbed through the skin.

Estonia OELs: Skin designation

Dipropylene glycol monomethyl ether (CAS 34590-94-8) Can be absorbed through the skin.

EU Exposure Limit Values: Skin designation

Dipropylene glycol monomethyl ether (CAS 34590-94-8) Can be absorbed through the skin.

Finland Exposure Limit Values: Skin designation

Dipropylene glycol monomethyl ether (CAS 34590-94-8) Can be absorbed through the skin.

France INRS: Skin designation

Dipropylene glycol monomethyl ether (CAS 34590-94-8) Can be absorbed through the skin.

Greece OEL: Skin designation

Dipropylene glycol monomethyl ether (CAS 34590-94-8) Can be absorbed through the skin.

Iceland OELs: Skin designation

Dipropylene glycol monomethyl ether (CAS 34590-94-8) Can be absorbed through the skin.

Ireland Exposure Limit Values: Skin designation

Dipropylene glycol monomethyl ether (CAS 34590-94-8) Can be absorbed through the skin.

Italy OELs: Skin designation

Dipropylene glycol monomethyl ether (CAS 34590-94-8) Danger of cutaneous absorption

Latvia OELs: Skin designation

Dipropylene glycol monomethyl ether (CAS 34590-94-8) Can be absorbed through the skin.

Lithuania OELs: Skin designation

Dipropylene glycol monomethyl ether (CAS 34590-94-8) Can be absorbed through the skin.

Luxembourg OELs: Skin designation

Dipropylene glycol monomethyl ether (CAS 34590-94-8) Can be absorbed through the skin.

Malta OELs: Skin designation

Dipropylene glycol monomethyl ether (CAS 34590-94-8) Can be absorbed through the skin.

Netherlands OELs (binding): Skin designation

ethanol; ethyl alcohol (CAS 64-17-5) Can be absorbed through the skin.

Norway Exposure Limit Values: Skin designation

Dipropylene glycol monomethyl ether (CAS 34590-94-8) Can be absorbed through the skin.

Portugal OELs: Skin designation

Dipropylene glycol monomethyl ether (CAS 34590-94-8) Can be absorbed through the skin.

Portugal VLEs Norm on Occupational Exposure: Skin designation

Dipropylene glycol monomethyl ether (CAS 34590-94-8) Can be absorbed through the skin.

Romania OELs: Skin designation

Dipropylene glycol monomethyl ether (CAS 34590-94-8) Can be absorbed through the skin.

Slovakia OELs: Skin designation

Dipropylene glycol monomethyl ether (CAS 34590-94-8) 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)

Dipropylene glycol monomethyl ether (CAS 34590-94-8) Can be absorbed through the skin.

Spain OELs: Skin designation

Dipropylene glycol monomethyl ether (CAS 34590-94-8) Can be absorbed through the skin.

Sweden Threshold Limit Values: Skin designation

Dipropylene glycol monomethyl ether (CAS 34590-94-8) Can be absorbed through the skin.

UK EH40 WEL: Skin designation

Dipropylene glycol monomethyl ether (CAS 34590-94-8) 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. Provide eyewash station.

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. Nitrile gloves are recommended. Suitable gloves can be recommended by the glove supplier.

- Other

Wear suitable protective 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

Physical state

Liquid.

Form

Aerosol.

Colour

Brown.

Odour

Characteristic odor.

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 explosive limits

Explosive limit - lower (%) 0,6 %

Explosive limit – upper (%) 19 %

Flash point

39,0 °C (102,2 °F) Closed cup

Auto-ignition temperature

> 200 °C (> 392 °F)

Decomposition temperature

Not available.

pH

Not applicable.

Kinematic viscosity

Not available.

Solubility

Solubility (water)

Insoluble in water

Partition coefficient

Not available.

(n-octanol/water) (log value)

Vapour pressure

Not available.

Density and/or relative density

Relative density

0,81 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 rate Not available.

VOC 602 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 exposure

Inhalation May cause allergy or asthma symptoms or breathing difficulties if inhaled. Prolonged inhalation may be harmful.

Skin contact May cause an allergic skin reaction.

Eye contact Causes serious eye irritation.

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

Symptoms Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

11.1. Information on toxicological effects

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

Components	Species	Test Results
1H-Imidazole-1-ethanol, 2-(8-heptadecenyl)-4,5-dihydro- (CAS 95-38-5)		
<u>Acute</u>		
Oral		
LD50	Rat	1265 mg/kg
Dipropylene glycol monomethyl ether (CAS 34590-94-8)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	9510 mg/kg
Oral		
LD50	Rat	5000 mg/kg
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, C10-C12, Isoalkanes, less than 2% aromatics		
<u>Acute</u>		
Dermal		
LD50	Rat	5000 mg/kg
Inhalation		
LC50	Rat	> 5000 mg/m³
Oral		
LD50	Rat	5000 mg/kg

Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation	Causes serious eye irritation.
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	Based on available data, the classification criteria are not met.
Specific target organ toxicity - repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Not likely, due to the form of the product.
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	May cause allergic respiratory and skin reactions.

SECTION 12: Ecological information

12.1. Toxicity Toxic to aquatic life with long lasting effects.

Components	Species		Test Results
1H-Imidazole-1-ethanol, 2-(8-heptadecenyl)-4,5-dihydro- (CAS 95-38-5)			
Aquatic			
Acute			
Algae	EC50	Algae	0,03 mg/l, 72 hours
Crustacea	EC50	Daphnia magna	0,136 mg/l, 48 hours
Fish	LC50	(Brachydanio rerio)	0,3 mg/l, 96 hours
Dipropylene glycol monomethyl ether (CAS 34590-94-8)			
Aquatic			
Acute			
Algae	EC50	Algae	969 mg/l, 96 h
Crustacea	EC50	Daphnia	1919 mg/l, 48 h
Fish	LC50	Fish	10000 mg/l, 96 h
ethanol; ethyl alcohol (CAS 64-17-5)			
Acute			
	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
Chronic			
Crustacea	NOEC	Daphnia magna	9,6 mg/l, 9 days

Components	Species		Test Results
Hydrocarbons, C10-C12, Isoalkanes, less than 2% aromatics			
Aquatic			
Acute			
Algae	NOEC	Algae	1000 mg/l, 72 hours
Crustacea	EC50	Daphnia	1000 mg/l, 48 hours
Fish	LC0	Fish	1000 mg/l, 96 hours
Chronic			
Crustacea	NOEC	Daphnia	< 1 mg/l, 21 days
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)			
Dipropylene glycol monomethyl ether		0,004	
ethanol; ethyl alcohol		-0,31	
Hydrocarbons, C10-C12, Isoalkanes, less than 2% aromatics		> 4	
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: 0		
12.8. Additional information			
Estonia Dangerous substances in soil Data			
ethanol; ethyl alcohol (CAS 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		

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

ADR

14.1. UN number	UN1950
14.2. UN proper shipping name	AEROSOLS, flammable
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 Yes

14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IATA

14.1. UN number UN1950

14.2. UN proper shipping name Aerosols, flammable

14.3. Transport hazard class(es)

Class 2.1

Subsidiary risk Not assigned.

14.4. Packing group Not assigned.

14.5. Environmental hazards Yes

ERG Code 10L

14.6. Special precautions for user 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 name Aerosols, flammable, Marine pollutant

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

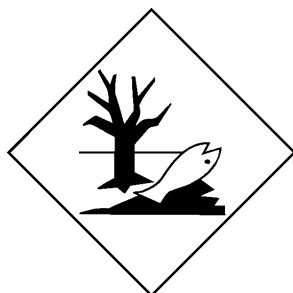
14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

14.7. Maritime transport in bulk according to IMO instruments Not established.

ADR; IATA; IMDG



Marine pollutant



General information

IMDG Regulated 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

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

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

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)

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.
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 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 statements, which are not written out in full under sections 2 to 15

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H280 Contains gas under pressure; may explode if heated.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.

Revision information

None.

Training information

Follow training instructions when handling this material.

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