SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

TYRE DRESSING

Creation date	14th August 2025		
Revision date		Version	5.0

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

1.1. Product identifier TYRE DRESSING

Substance / mixture	mixture
Number	1 35226
UFI	FSG2-KDW0-5003-7Q5P

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

Mixture's intended use

Foam to revive the appearance of tires. For professional use only.

Mixture uses advised against

The product should not be used in ways other than those referred in Section 1.

1.3. Details of the supplier of the safety data sheet

Supplier

Name or trade name	RETECH, s.r.o.
Address	Vackova 1541/4, Praha 5 - Stodůlky, 155 00 Czech Republic
Identification number (CRN)	25018205
VAT number	CZ25018205
Phone	+420327596428
E-mail	info@retech.cz
Web address	www.retech.com

Competent person responsible for the safety data sheet

Name	RETECH, s.r.o.
E-mail	info@retech.cz

1.4. Emergency telephone number

European emergency number: 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification of the mixture in accordance with Regulation (EC) No 1272/2008

The mixture is classified as dangerous.

Aerosol 1, H222, H229

Most serious adverse physico-chemical effects

Extremely flammable aerosol. Pressurised container: May burst if heated.

2.2. Label elements

Hazard pictogram

Signal word

Danger

Hazard statements

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

Precautionary statements

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.
P280	Wear protective gloves.

P410+P412	Protect from sunlight. Do no expose to temperatures exceeding 50 °C/122 °F.
P501	Dispose of contents/container to in accordance with national regulations.

Supplemental information

EUH208	Contains Mixture of 5-chloro-2-methyl-2H- isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (Mixture of CMIT/MIT). May produce an allergic reaction.

2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended. Does not contain any PMT or vPvM components.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture.

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 649-202-00-6 CAS: 68476-85-7 EC: 270-704-2 Registration number: 01-2119485911-31	Petroleum gases, liquefied	10-<25	Flam. Gas 1A, H220 Press. Gas (liquefied gas), H280	1, 2, 3
Index: 603-027-00-1 CAS: 107-21-1 EC: 203-473-3 Registration number: 01-2119456816-28	ethanediol	3-<10	Acute Tox. 4, H302 STOT RE 2, H373 Specific concentration limit: ATE Oral = 500 mg/kg bw	4
CAS: 137-16-6 EC: 205-281-5 Registration number: 01-2119527780-39	SODIUM LAUROYL SARCOSINATE	<1	Skin Irrit. 2, H315 Eye Dam. 1, H318 Acute Tox. 2, H330 Specific concentration limit: Skin Irrit. 2, H315: C ≥ 30 % Eye Dam. 1, H318: C ≥ 30 % Eye Irrit. 2, H319: 1 % ≤ C < 30 % ATE Inhalation (vapor) = 3 mg/l ATE Inhalation (dust/mist) = 0,5 mg/l	
CAS: 3251-23-8 EC: 221-838-5 Registration number: 01-2119429044-48	copper dinitrate	<1	Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT RE 1, H372 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 2, H411	

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 55965-84-9 EC: 911-418-6 Registration number: 01-2120764691-48	Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (Mixture of CMIT/MIT)	<1	Acute Tox. 3, H301 Acute Tox. 2, H310+H330 Skin Corr. 1C, H314 Skin Sens. 1A, H317 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100) EUH071 Specific concentration limit: Eye Irrit. 2, H319: 0.06 % ≤ C < 0.6 % Skin Sens. 1A, H317: C ≥ 0.0015 % Skin Irrit. 2, H315: 0.06 % ≤ C < 0.6 % Skin Corr. 1C, H314: C ≥ 0.6 % Eye Dam. 1, H318: C ≥ 0.6 % ATE Oral = 64 mg/kg bw ATE Dermal = 87,12 mg/kg bw ATE Inhalation (vapor) = 1,433 mg/l ATE Inhalation (dust/mist) = 0,33 mg/l	
Index: 613-326-00-9 CAS: 2682-20-4 EC: 220-239-6 Registration number: 01-2120764690-50	2-methylisothiazol-3(2H)-one	<1	Acute Tox. 3, H301+H311 Skin Corr. 1B, H314 Skin Sens. 1A, H317 Eye Dam. 1, H318 Acute Tox. 2, H330 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=1) EUH071 Specific concentration limit: Skin Sens. 1A, H317: C ≥ 0.0015 % ATE Inhalation (vapor) = 0,7 mg/l ATE Inhalation (dust/mist) = 0,11 mg/l	

Notes

1 *Note S: This substance may not require a label according to Article 17 (see Section 1.3 of Annex I) (Table 3).*

2 *Note U (Table 3): When put on the market gases have to be classified as "Gases under pressure", in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case. The following codes are assigned:*

Press. Gas (Comp.)
Press. Gas (Liq.)
Press. Gas (Ref. Liq.)
Press. Gas (Diss.)

Aerosols shall not be classified as gases under pressure (See Annex I, Part 2, Section 2.3.2.1, Note 2).

3 *Note K: The harmonised classification as a carcinogen or mutagen applies unless it can be shown that the substance contains less than 0,1 % w/w 1,3- butadiene (Einecs No 203-450-8), in which case a classification in accordance with Title II of this Regulation shall be performed also for those hazard classes. Where the substance is not classified as a carcinogen or mutagen, at least the precautionary statements (P102-)P210-P403 shall apply.*

4 *A substance for which exposure limits are set.*

Full text of all classifications and hazard statements is given in the section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

If inhaled

Transfer the affected person to the fresh air and ensure calm environment for body and mind. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

If on skin

Remove contaminated clothes. Rinse skin with water or shower. Soap should be used if there is no skin injury. In the event of issues, find medical help.

If in eyes

Rinse eyes immediately with a flow of running water. Rinsing should continue at least for 15 minutes. Remove contact lenses, if present and easy to do. Provide medical treatment, specialized if possible.

If swallowed

DO NOT INDUCE VOMITING! If the affected person vomits, make sure to prevent inhalation of the vomit. Ensure calm environment for body and mind. Rinse out the mouth with clean water.

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

If inhaled

Prolonged inhalation of high concentrations may damage respiratory system.

If on skin

not available

If in eyes

not available

If swallowed

not available

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

not available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (BC), foam (AB), powder (ABC).

Unsuitable extinguishing media

Water - full jet.

5.2. Special hazards arising from the substance or mixture

In the event of fire toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

5.3. Advice for firefighters

Use a self-contained breathing apparatus and full-body protective clothing. Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Remove all ignition sources. Closed containers with the product near the fire should be cooled with water. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Stop leak if safe to do so. Evacuate area. Keep unprotected persons away. Use personal protective equipment as per Section 8.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Do not allow product to reach sewage system or any water course. Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. Do not absorb in sawdust or other combustible absorbents.

In the event of leakage into water, prevent other spread of the product via oil boom. Spilled product should be covered with suitable absorbing material. Place the product mechanically in an appropriate manner. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. Dispose of the collected material according to the instructions in the section 13.

6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Observe valid legal regulations on safety and health protection. Maintain order and cleanliness where dangerous products are used. Take action to prevent static discharges. Consult section 10 for conditions and materials that should be avoided. Do not eat, drink or smoke when using this product. Wash hands and exposed parts of the body thoroughly after handling. Spilled product should be covered with suitable absorbing material.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from heat and other ignition sources. Protect from sunlight. Take action to prevent static discharges. Do not store together with food, drink and animal feed. See the Section 10.

Content	Packaging type	Material of package
400 ml	aerosol can	FE

Storage temperature min 4 °C, max 40 °C

7.3. Specific end use(s)

not available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

European Union **Commission Directive 2000/39/EC**

Substance name (component)	Type	Value
ethanediol (CAS: 107−21−1)	OEL 8 hours	52 mg/m³
	OEL 8 hours	20 ppm
	OEL 15 minutes	104 mg/m³
	OEL 15 minutes	40 ppm

Notes
Skin.

DNEL

2-methylisothiazol-3(2H)-one			
Workers / consumers	Route of exposure	Value	Effect
Workers	Inhalation	0.043 mg/m³	Acute effects local
Workers	Inhalation	0.021 mg/m³	Chronic effects local
Consumers	Inhalation	0.043 mg/m³	Acute effects local
Consumers	Inhalation	0.021 mg/m³	Chronic effects local
Consumers	Oral	0.053 mg/kg	Acute effects systemic
Consumers	Oral	0.027 mg/kg	Chronic effects systemic

copper dinitrate			
Workers / consumers	Route of exposure	Value	Effect
Workers	Dermal	137 mg/kg	Chronic effects systemic
Workers	Inhalation	1 mg/m³	Chronic effects systemic
Workers	Inhalation	1 mg/m³	Chronic effects local
Consumers	Oral	0.082 mg/kg	Acute effects systemic
Consumers	Oral	0.041 mg/kg	Chronic effects systemic

ethanediol			
Workers / consumers	Route of exposure	Value	Effect
Workers	Dermal	106 mg/kg	Chronic effects systemic
Workers	Inhalation	35 mg/m³	Chronic effects local
Consumers	Dermal	53 mg/kg	Chronic effects systemic
Consumers	Inhalation	7 mg/m³	Chronic effects local

Mixture of 5-chloro-2-methyl-2H- isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (Mixture of CMIT/MIT)			
Workers / consumers	Route of exposure	Value	Effect
Workers	Inhalation	0.04 mg/m³	Acute effects local
Workers	Inhalation	0.02 mg/m³	Chronic effects local
Consumers	Oral	0.11 mg/kg	Acute effects systemic
Consumers	Inhalation	0.04 mg/m³	Acute effects local
Consumers	Oral	0.09 mg/kg	Chronic effects systemic
Consumers	Inhalation	0.02 mg/m³	Chronic effects local

Petroleum gases, liquefied			
Workers / consumers	Route of exposure	Value	Effect
Workers	Dermal	23.4 mg/kg	Chronic effects systemic

SODIUM LAUROYL SARCOSINATE			
Workers / consumers	Route of exposure	Value	Effect
Workers	Dermal	20 mg/kg	Chronic effects systemic
Workers	Inhalation	70.53 mg/m³	Chronic effects systemic
Consumers	Oral	10 mg/kg	Chronic effects systemic
Consumers	Dermal	10 mg/kg	Chronic effects systemic
Consumers	Inhalation	17.39 mg/m³	Chronic effects systemic

PNEC

2-methylisothiazol-3(2H)-one	
Route of exposure	Value
Microorganisms in sewage treatment	0.23 mg/l
Soil (agricultural)	0.047 mg/kg
Water (intermittent release)	0.00339 mg/l
Freshwater environment	0.00339 mg/l
Marine water	0.00339 mg/l

copper dinitrate	
Route of exposure	Value
Microorganisms in sewage treatment	0.23 mg/l
Soil (agricultural)	65 mg/kg
Freshwater environment	0.0078 mg/l
Marine water	0.0052 mg/l
Freshwater sediment	87 mg/kg
Sea sediments	676 mg/kg

ethanediol	
Route of exposure	Value
Freshwater environment	10 mg/l
Water (intermittent release)	10 mg/l
Freshwater sediment	37 mg/kg
Soil (agricultural)	1.53 mg/kg
Marine water	1 mg/l
Sea sediments	3.7 mg/kg
Microorganisms in sewage treatment	199.5 mg/l

Mixture of 5-chloro-2-methyl-2H- isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (Mixture of CMIT/MIT)	
Route of exposure	Value
Microorganisms in sewage treatment	0.23 mg/l
Soil (agricultural)	0.01 mg/kg
Water (intermittent release)	0.00339 mg/l
Freshwater environment	0.00339 mg/l
Marine water	0.00339 mg/l
Freshwater sediment	0.027 mg/kg
Sea sediments	0.027 mg/kg

SODIUM LAUROYL SARCOSINATE	
Route of exposure	Value
Microorganisms in sewage treatment	3 mg/l
Soil (agricultural)	0.008 mg/kg
Water (intermittent release)	0.089 mg/l
Freshwater environment	0.009 mg/l
Marine water	0.001 mg/l
Freshwater sediment	0.064 mg/kg
Sea sediments	0.006 mg/kg

8.2. Exposure controls

Follow the usual measures for health protection at work. As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Regulation (EU) 2016/425. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,…) consult the information leaflet provided by the manufacturer. See the Section 7.1.
Ensure workplace is equipped with a safety shower and eye wash station.

Eye/face protection

In case of splash use safety glasses. CE CAT II. EN ISO 16321-1 - Eye and face protection for occupational use. Clean daily and disinfect periodically according to the manufacturer´s instructions.

Skin protection

Hand protection: Protective gloves resistant to the product. CE CAT I. For prolonged periods of exposure to the product for professional users/industrials, we recommend using CE CAT III gloves. EN ISO 21420. EN ISO 374-1. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Replace gloves at the first signs of wear or damage.

Other protection: protective workwear. Replace before any evidence of deterioration. EN ISO 6530. EN13688. EN 464.
Other protection: Protective antistatic clothing made of natural fibres (cotton) or synthetic fibres resistant to elevated temperatures. CE CAT III. EN 1149-1/-2/-3/-5.
Antistatic footwear. EN ISO 13287. EN ISO 20345 ED.2.

Glove material	Thickness	Breakthrough time	Class	Exposure time
Nitrile (NBR)	≥ 0.062 mm	>480 min	6	Short-term

Respiratory protection

Mask with a filter in a poorly ventilated environment. Filter A/P. CE CAT III. EN 149+A1. EN 405+A1. EN 136. Replace when an increase in resistence to breathing is observed and/or a smell or taste of the contaminant is detected.

Thermal hazard

Not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	white
Odour	characteristic
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	-42 °C (hnací plyn)

Flammability	Extremely flammable aerosol.
Lower and upper explosion limit	data not available
Flash point	data not available
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	non-polar/aprotic
Kinematic viscosity	>20.5 mm²/s at 40 °C
Solubility in water	miscible
Solubility in fats	data not available
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	<300 kPa at 50 °C
Density and/or relative density	data not available
Relative vapour density	data not available
Particle characteristics	data not available
Form	spray

data not available

9.2. Other information

Evaporation rate non-applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

See the Section 10.3.

10.2. Chemical stability

The product is non-reactive under normal conditions of use, storage and transport.

10.3. Possibility of hazardous reactions

When used in the standard way, there is not any dangerous reaction with other substances.

10.4. Conditions to avoid

Protect against overheating. Protect from sunlight. Pressurised container: May burst if heated.

10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

10.6. Hazardous decomposition products

Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Contains glycols. Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. No toxicological data is available for the mixture.

Acute toxicity

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

2-methylisothiazol-3(2H)-one					
Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD_{50}	>120 mg/kg		Rat	
Dermal	LD_{50}	>224 mg/kg		Rat	
Inhalation (dust/mist)	LC_{50}	0.11 mg/l	4 hours	Rat	
Inhalation (vapor)	ATE	0.7 mg/l			
Inhalation (dust/mist)	ATE	0.11 mg/l			

copper dinitrate					
Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD_{50}	>2000 mg/kg			
Dermal	LD_{50}	>2000 mg/kg			
Inhalation (dust/mist)	LD_{50}	>5 mg/l			

ethanediol					
Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD_{50}	500 mg/kg			
Dermal	LD_{50}	>3500 mg/kg		Rabbit	
Inhalation (vapor)	LC_{50}	>20 mg/kg			
Oral	ATE	500 mg/kg bw			

Mixture of 5-chloro-2-methyl-2H- isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (Mixture of CMIT/MIT)					
Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD_{50}	64 mg/kg		Rat	
Dermal	LD_{50}	87.12 mg/kg		Rabbit	
Inhalation (dust/mist)	LC_{50}	0.33 mg/l	4 hours	Rat	
Oral	ATE	64 mg/kg bw			
Dermal	ATE	87.12 mg/kg bw			
Inhalation (vapor)	ATE	1.433 mg/l			
Inhalation (dust/mist)	ATE	0.33 mg/l			

Petroleum gases, liquefied					
Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD_{50}	>2000 mg/kg			
Dermal	LD_{50}	>2000 mg/kg			
Inhalation (gases)	LC_{50}	>20000 mg/l			

SODIUM LAUROYL SARCOSINATE					
Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD_{50}	>5000 mg/kg		Rat	
Dermal	LD_{50}	>2000 mg/kg			
Inhalation (dust/mist)	LC_{50}	0.5 mg/l		Rat	
Inhalation (vapor)	ATE	3 mg/l			
Inhalation (dust/mist)	ATE	0.5 mg/l			

Skin corrosion/irritation

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

Serious eye damage/irritation

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

Respiratory or skin sensitisation

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

Germ cell mutagenicity

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

Carcinogenicity

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

Reproductive toxicity

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

Toxicity for specific target organ - single exposure

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

Toxicity for specific target organ - repeated exposure

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

Aspiration hazard

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

11.2. Information on other hazards

Endocrine disrupting properties

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any components that may cause endocrine disruption for humans.

Other information

not available

SECTION 12: Ecological information

12.1. Toxicity

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

Acute toxicity

2-methylisothiazol-3(2H)-one				
Parameter	Value	Exposure time	Species	Environment
LC_{50}	4.77 mg/l	96 hours	Fish (Oncorhynchus mykiss)	
EC_{50}	0.934 mg/l	48 hours	Crustaceans (Daphnia magna)	

copper dinitrate				
Parameter	Value	Exposure time	Species	Environment
LC_{50}	0.253 mg/l	96 hours	Fish (Oncorhynchus mykiss)	
EC_{50}	0.05 mg/l	48 hours	Crustaceans (Daphnia magna)	

ethanediol				
Parameter	Value	Exposure time	Species	Environment
LC_{50}	53000 mg/l	96 hours	Fish (Pimephales promelas)	
EC_{50}	51000 mg/l	48 hours	Crustaceans (Daphnia magna)	
EC_{50}	24000 mg/l	168 hours	Algae (Selenastrum capricornutum)	

Mixture of 5-chloro-2-methyl-2H- isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (Mixture of CMIT/MIT)				
Parameter	Value	Exposure time	Species	Environment
LC_{50}	0.28 mg/l	96 hours	Fish (Lepomis macrochirus)	
EC_{50}	0.007 mg/l	48 hours	Crustaceans (Acartia tonsa)	
EC_{50}	0.0199 mg/l	72 hours	Algae (Skeletonema costatum)	

Chronic toxicity

Mixture of 5-chloro-2-methyl-2H- isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (Mixture of CMIT/MIT)				
Parameter	Value	Exposure time	Species	Environment
NOEC	>0.001-0.01 mg/l		Fish	
NOEC	>0.001-0.01 mg/l		Crustaceans	

12.2. Persistence and degradability

Data for the mixture are not available.

Biodegradability

2-methylisothiazol-3(2H)-one					
Parameter	Value	Exposure time	Environment	Result	Source
	55.8 %	28 days			c = 10 mg/l

ethanediol					
Parameter	Value	Exposure time	Environment	Result	Source
	90 %	14 days			c = 100 mg/l
BOD_5	0.47 g O_2/g substance				
COD	1.29 g O_2/g substance				

ethanediol					
Parameter	Value	Exposure time	Environment	Result	Source
BOD 5/COD	0.36				

Mixture of 5-chloro-2-methyl-2H- isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (Mixture of CMIT/MIT)					
Parameter	Value	Exposure time	Environment	Result	Source
	38.8 %	29 days			c = 0,3 mg/l

12.3. Bioaccumulative potential

Data for the mixture are not available.

2-methylisothiazol-3(2H)-one		
Parameter	Value	Result
Log Pow	-0.49	

ethanediol		
Parameter	Value	Result
BCF	10	Low potential
Log Pow	-1.36	Low potential

Mixture of 5-chloro-2-methyl-2H- isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (Mixture of CMIT/MIT)		
Parameter	Value	Result
BCF	54	Low potential
Log Pow	0.75	Low potential

12.4. Mobility in soil

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any PMT or vPvM components.

ethanediol			
Parameter	Value	Result	Source
Koc	0	High mobility	σ [25 °C]: 49.89 mN/m; Henry: 0,1327 Pa·m³/mol

Mixture of 5-chloro-2-methyl-2H- isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (Mixture of CMIT/MIT)			
Parameter	Value	Result	Source
Koc	7.7	High mobility	Henry: 0,005 Pa·m³/mol

12.5. Results of PBT and vPvB assessment

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any PBT or vPvB components.

12.6. Endocrine disrupting properties

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any components that may cause endocrine disruption in the environment.

12.7. Other adverse effects

Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Perfectly cleaned containers can be submitted for recycling.
HP3 "Flammable".

Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

Waste type code

16 03 05* organic wastes containing hazardous substances

Packaging waste type code

15 01 11* metallic packaging containing a hazardous solid porous matrix (for example asbestos), including empty pressure containers

(*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

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SECTION 14: Transport information

14.1. UN number or ID number

UN 1950

14.2. UN proper shipping name

AEROSOLS

14.3. Transport hazard class(es)

2 Gases

14.4. Packing group

not relevant

14.5. Environmental hazards

not relevant

14.6. Special precautions for user

Reference in the Sections 4 to 8.

14.7. Maritime transport in bulk according to IMO instruments

not relevant

Additional information

Hazard identification No.	
UN number	**1950**
Classification code	5F
Safety signs	2.1

Road transport - ADR

Special provisions	190, 327, 344, 625
Limited quantities	1 L
Transport category	2
Tunnel restriction code	(D)

Railway transport - RID

Special provisions	190, 327, 344, 625
Transport category	2

Marine transport - IMDG

EmS (emergency plan)	F-D, S-U

SECTION 15: Regulatory information

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

A list of standard risk phrases used in the safety data sheet

EUH071	Corrosive to the respiratory tract.
EUH208	Contains Mixture of 5-chloro-2-methyl-2H- isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (Mixture of CMIT/MIT). May produce an allergic reaction.
H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H301	Toxic if swallowed.
H301+H311	Toxic if swallowed or in contact with skin.
H302	Harmful if swallowed.
H310+H330	Fatal in contact with skin or if inhaled.
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.
H330	Fatal if inhaled.
H372	Causes damage to organs through prolonged or repeated exposure.
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.

Guidelines for safe handling used in the safety data sheet

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.
P280	Wear protective gloves.
P410+P412	Protect from sunlight. Do no expose to temperatures exceeding 50 °C/122 °F.
P501	Dispose of contents/container to in accordance with national regulations.

Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet

Acute Tox.	Acute toxicity
ADR	Agreement concerning the international carriage of dangerous goods by road
Aerosol	Aerosol
Aquatic Acute	Hazardous to the aquatic environment
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
ATE	Acute toxicity estimate
BCF	Bioconcentration Factor
BOD	Biochemical oxygen demand
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
COD	Chemical oxygen demand
EC	Identification code for each substance listed in EINECS
EC_{50}	Concentration of a substance when it is affected 50 % of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency Response Procedures for Ships Carrying Dangerous Goods
EU	European Union
EuPCS	European Product Categorisation System
Eye Dam.	Serious eye damage
Eye Irrit.	Eye irritation
Flam. Gas	Flammable gas
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC_{50}	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD_{50}	Lethal dose of a substance in which it can be expected death of 50% of the population
log Kow	Octanol-water partition coefficient
NOEC	No observed effect concentration
OEL	Occupational Exposure Limits
PBT	Persistent, bioaccumulative and toxic
PMT	Persistent, mobile and toxic
ppm	Parts per million
Press. Gas	Gases under pressure
Press. Gas (Comp.)	Gas under pressure: compressed gas
Press. Gas (Diss.)	Gas under pressure: dissolved gas
Press. Gas (Liq.)	Gas under pressure: liquefied gas

Press. Gas (Ref. Liq.)	Gas under pressure: refrigerated liquefied gas
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulation concerning the International Carriage of Dangerous Goods by Rail
Skin Corr.	Skin corrosion
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization
STOT RE	Specific target organ toxicity - repeated exposure
UN number	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very persistent and very bioaccumulative
vPvM	Very persistent and very mobile

Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

The changes (which information has been added, deleted or modified)

The version 5.0 replaces the SDS version from Wednesday, 30 June 2021. Changes were made in sections 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 and 16.

More information

Classification procedure - calculation method.

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.