SAFETY DATA SHEET

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

HEADLIGHT HÄRTER

Creation date	19th December 2024		
Revision date		Version	3.1

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

1.1. Product identifier HEADLIGHT HÄRTER

Substance / mixture	mixture
Number	1 35164
UFI	7FA2-7D3D-500E-7J1P

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

Mixture's intended use

Hardener. For professional use only.

Main intended use

PC-PNT-5 Automotive and aerospace coatings

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 Reg No	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.

Flam. Liq. 3, H226
Skin Sens. 1, H317
STOT SE 3, H335, H336
Aquatic Chronic 3, H412

Most serious adverse physico-chemical effects

Flammable liquid and vapour.

Most serious adverse effects on human health and the environment

May cause respiratory irritation. May cause an allergic skin reaction. May cause drowsiness or dizziness. Harmful to aquatic life with long lasting effects.

2.2. Label elements

Hazard pictogram

Signal word

Warning

Hazardous substances

hexamethylene diisocyanate, oligomers
2-methoxy-1-methylethyl acetate
n-butyl acetate
Ethylene bis(3-mercaptopropionate)

Hazard statements

H226	Flammable liquid and vapour.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing vapours.
P280	Wear protective gloves.
P370+P378	In case of fire: Use powder extinguisher/sand/carbon dioxide to extinguish.

Supplemental information

EUH204	Contains isocyanates. May produce an allergic reaction.
EUH066	Repeated exposure may cause skin dryness or cracking.
	As from 24 August 2023 adequate training is required before industrial or professional use.

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 of substances and additives specified below.

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
CAS: 28182-81-2 EC: 500-060-2	hexamethylene diisocyanate, oligomers	50-<55	Skin Sens. 1, H317 Acute Tox. 4, H332 STOT SE 3, H335 Specific concentration limit: ATE Inhalation (dust/mist) = 1,5 mg/l	
Index: 607-195-00-7 CAS: 108-65-6 EC: 203-603-9 Registration number: 01-2119475791-29	2-methoxy-1-methylethyl acetate	24-<26.5	Flam. Liq. 3, H226	1
Index: 607-025-00-1 CAS: 123-86-4 EC: 204-658-1 Registration number: 01-2119485493-29	n-butyl acetate	21.5-<24	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	1

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 649-356-00-4 CAS: 64742-95-6 EC: 918-668-5 Registration number: 01-2119455851-35	Solvent naphtha (petroleum), light arom.	2.5-<3	Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H335, H336 Aquatic Chronic 2, H411 EUH066	
CAS: 22504-50-3 EC: 245-044-3 Registration number: 01-2120775145-52	Ethylene bis(3-mercaptopropionate)	<0.1	Acute Tox. 4, H302+H312 Skin Sens. 1A, H317 Eye Irrit. 2, H319 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	

Notes

1 *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

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

If inhaled

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

If on skin

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists. Rinse skin with water or shower.

If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes.

If swallowed

Rinse out the mouth with water and provide 2-5 dL of water. Provide medical treatment if the person has any health problems.

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

If inhaled

May cause respiratory irritation. May cause drowsiness or dizziness.

If on skin

May cause an allergic skin reaction.

If in eyes

not available

If swallowed

not available

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

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide, foam, powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

Unsuitable extinguishing media

Water - full jet.

5.2. Special hazards arising from the substance or mixture

Container: May burst if heated. Do not breathe smoke.

5.3. Advice for firefighters

Use a self-contained breathing apparatus and full-body protective clothing. 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. Dispose of contaminated extinguishing water and remains after the fire in accordance with the official regulations. EN 469 - Protective clothing for firefighters - Performance requirements for protective clothing for firefighting. EN 659+A1: - Protective gloves for firefighters. EN137 - Respiratory protective devices — Self-contained open-circuit compressed air breathing apparatus with full face mask.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Stop leak if safe to do so. Flammable liquid and vapour. Remove all ignition sources. Use non-sparking tools. Use personal protective equipment for work. Prevent contact with skin and eyes. Keep unprotected persons away.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

6.3. Methods and material for containment and cleaning up

Ventilate the room. 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.

6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Use only outdoors or in a well-ventilated area. Solvent vapours are heavier than air and accumulate especially near the floor where they may form an explosive mixture with the air. Take action to prevent static discharges. Do not eat, drink or smoke when using this product. Remove contaminated clothing and protective equipment before entering eating areas. Avoid release to the environment.

7.2. Conditions for safe storage, including any incompatibilities

Keep only in original packaging. Store in a well-ventilated place. Keep away from sources of heating, ignition and direct sunlight.

Content	Packaging type	Material of package
200 ml	bottle	

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 (EU) 2019/1831**

Substance name (component)	Type	Value
n−butyl acetate (CAS: 123−86−4)	OEL 8 hours	241 mg/m³
	OEL 8 hours	50 ppm
	OEL 15 minutes	723 mg/m³
	OEL 15 minutes	150 ppm

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

Substance name (component)	Type	Value
2−methoxy−1−methylethyl acetate (CAS: 108−65−6)	OEL 8 hours	275 mg/m³
	OEL 8 hours	50 ppm
	OEL 15 minutes	550 mg/m³
	OEL 15 minutes	100 ppm

Notes
Skin.

DNEL

2-methoxy-1-methylethyl acetate			
Workers / consumers	Route of exposure	Value	Effect
Consumers	Oral	1.67 mg/kg	Chronic effects systemic
Consumers	Inhalation	33 mg/m³	Chronic effects systemic
Workers	Inhalation	275 mg/m³	Chronic effects systemic
Consumers	Dermal	54.8 mg/kg	Chronic effects systemic
Workers	Dermal	153.5 mg/kg	Chronic effects systemic
Consumers	Inhalation	33 mg/m³	Chronic effects local

hexamethylene diisocyanate, oligomers			
Workers / consumers	Route of exposure	Value	Effect
Workers	Inhalation	1 mg/m³	Acute effects local
Workers	Inhalation	0.5 mg/m³	Chronic effects local

n-butyl acetate			
Workers / consumers	Route of exposure	Value	Effect
Consumers	Inhalation	300 mg/m³	Acute effects local
Workers	Inhalation	600 mg/m³	Acute effects local
Consumers	Inhalation	300 mg/m³	Acute effects systemic
Workers	Inhalation	600 mg/m³	Acute effects systemic
Consumers	Inhalation	35.7 mg/m³	Chronic effects local
Workers	Inhalation	300 mg/m³	Chronic effects local
Consumers	Inhalation	35.7 mg/m³	Chronic effects systemic
Workers	Inhalation	300 mg/m³	Chronic effects systemic
Consumers	Oral	2 mg/kg bw/day	Acute effects systemic
Consumers	Oral	2 mg/kg bw/day	Chronic effects systemic
Consumers	Dermal	6 mg/kg bw/day	Acute effects systemic
Consumers	Dermal	6 mg/kg bw/day	Chronic effects systemic
Workers	Dermal	11 mg/kg bw/day	Chronic effects systemic

Solvent naphtha (petroleum), light arom.			
Workers / consumers	Route of exposure	Value	Effect
Consumers	Oral	11 mg/kg	Chronic effects systemic
Consumers	Inhalation	32 mg/m³	Chronic effects systemic
Consumers	Dermal	11 mg/kg	Chronic effects systemic
Workers	Inhalation	150 mg/m³	Chronic effects systemic
Workers	Dermal	25 mg/kg	Chronic effects systemic

PNEC

2-methoxy-1-methylethyl acetate	
Route of exposure	Value
Freshwater environment	0.635 mg/l
Marine water	0.0635 mg/l
Freshwater sediment	3.29 mg/kg
Sea sediments	0.329 mg/kg
Microorganisms in sewage treatment	100 mg/l
Soil (agricultural)	0.29 mg/kg
Water (intermittent release)	6.35 mg/l

hexamethylene diisocyanate, oligomers	
Route of exposure	Value
Freshwater environment	127 µg/l
Marine water	12.7 µg/l
Freshwater sediment	266700 mg/kg
Water (intermittent release)	1270 µg/l
Microorganisms in sewage treatment	38.28 mg/l
Soil (agricultural)	53200 mg/kg

n-butyl acetate	
Route of exposure	Value
Freshwater environment	0.18 mg/l
Marine water	0.018 mg/l
Freshwater sediment	0.981 mg/kg of dry substance of sediment
Water (intermittent release)	0.36 mg/l
Soil (agricultural)	0.0903 mg/kg of dry substance of soil
Microorganisms in sewage treatment	35.6 mg/l
Sea sediments	0.0981 mg/kg of dry substance of sediment

8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. Take off contaminated clothing. Contaminated skin should be washed thoroughly. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

Tightly sealed goggles. EN166 - Personal Eye Protection Standard.

Skin protection

Hand protection: Protective gloves resistant to the product. Category III. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Other protection: Wear category II professional long-sleeved overalls and safety footwear (see Regulation (EU) 2016/425 and standard EN ISO 20344).

Respiratory protection

Use a mask with filter when the exposition limits of the substances are exceeded or at the place with insufficient ventilation. Filter A. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. The protection provided by masks is in any case limited.

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	colourless
Odour	characteristic
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	233 °C
Flammability	data not available
Lower and upper explosion limit	data not available
Flash point	43 °C
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	non-soluble (in water)
Kinematic viscosity	data not available
Solubility in water	insoluble
Solubility in fats	data not available
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available
Density and/or relative density	
Density	1.01 g/cm³
Relative vapour density	data not available
Particle characteristics	data not available
Form	liquid

data not available

9.2. Other information

Evaporation rate	data not available
Content of organic solvents (VOC)	53.84 %
Max. VOC content in the product in its ready to use condition	544.0 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Vapours mixed up with air can be explosive.

10.4. Conditions to avoid

Protect against overheating. Take action to prevent static discharges. Remove all ignition sources.

10.5. Incompatible materials

not available

10.6. Hazardous decomposition products

Not developed under normal uses. 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

No toxicological data is available for the mixture.

Acute toxicity

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

HEADLIGHT HÄRTER					
Route of exposure	Parameter	Value	Exposure time	Species	Sex
Inhalation	ATE	>20 mg/l			

2-methoxy-1-methylethyl acetate					
Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD_{50}	8530 mg/kg		Rat	
Dermal	LD_{50}	>5000 mg/kg		Rat	
Inhalation	LC_{50}	>10.6 mg/l	6 hours	Rat	

hexamethylene diisocyanate, oligomers					
Route of exposure	Parameter	Value	Exposure time	Species	Sex
Inhalation	LC_{50}	0.39 mg/l	4 hours	Rat	
Oral	LD_{50}	>2500 mg/kg		Rat	
Dermal	LD_{50}	>2000 mg/kg		Rabbit	
Inhalation (dust/mist)	ATE	1.5 mg/l			

n-butyl acetate					
Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD_{50}	>6400 mg/kg		Rat	
Dermal	LD_{50}	>5000 mg/kg		Rabbit	
Inhalation	LC_{50}	21.1 mg/l	4 hours	Rat	

Solvent naphtha (petroleum), light arom.					
Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD_{50}	>5000 mg/kg		Rabbit	
Dermal	LD_{50}	>3160 mg/kg		Rabbit	

Solvent naphtha (petroleum), light arom.					
Route of exposure	Parameter	Value	Exposure time	Species	Sex
Inhalation	LC_{50}	>10.2 mg/l	4 hours	Rat	

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
May cause an allergic skin reaction. Data for the components of the mixture are not available.

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
May cause respiratory irritation. May cause drowsiness or dizziness. Data for the components of the mixture are not available.

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

Harmful to aquatic life with long lasting effects.

Acute toxicity

2-methoxy-1-methylethyl acetate				
Parameter	Value	Exposure time	Species	Environment
LC_{50}	100 mg/l	96 hours	Fish (Oncorhynchus mykiss)	
EC_{50}	450 mg/l	48 hours	Daphnia (Daphnia magna)	

hexamethylene diisocyanate, oligomers				
Parameter	Value	Exposure time	Species	Environment
LC_{50}	8.9 mg/l	96 hours	Fish (Branchydanio rerio)	
EC_{50}	127 mg/l	48 hours	Daphnia (Daphnia magna)	
EC_{50}	>1000 mg/l	72 hours	Algae (Desmodesmus subspicatus)	
EC_{10}	370 mg/l	72 hours	Algae (Desmodesmus subspicatus)	

n-butyl acetate				
Parameter	Value	Exposure time	Species	Environment
LC_{50}	18 mg/l	96 hours	Fish (Pimephales promelas)	
EC_{50}	44 mg/l	48 hours	Daphnia (Daphnia magna)	
EC_{50}	397 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)	

Solvent naphtha (petroleum), light arom.				
Parameter	Value	Exposure time	Species	Environment
LC_{50}	9.22 mg/l	96 hours	Fish	
EC_{50}	3.2 mg/l	48 hours	Daphnia (Daphnia magna)	
EC_{50}	2.6 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)	

Chronic toxicity

2-methoxy-1-methylethyl acetate				
Parameter	Value	Exposure time	Species	Environment
NOEC	47.5 mg/l	14 days	Fish (Oncorhynchus mykiss)	
NOEC	>100 mg/l	21 days	Daphnia (Daphnia magna)	
NOEC	>1000 mg/l	96 hours	Algae (Selenastrum capricornutum)	

12.2. Persistence and degradability

Data for the mixture are not available.

Biodegradability

2-methoxy-1-methylethyl acetate				
Parameter	Value	Exposure time	Environment	Result
	>10000 mg/l			Biodegradable
	83 %	28 days		

hexamethylene diisocyanate, oligomers				
Parameter	Value	Exposure time	Environment	Result
	0.1-100 mg/l			Hardly biodegradable

n-butyl acetate				
Parameter	Value	Exposure time	Environment	Result
	1000-10000 mg/l			Biodegradable
	83 %	28 days		

Solvent naphtha (petroleum), light arom.				
Parameter	Value	Exposure time	Environment	Result
	78 %	28 days		Biodegradable

12.3. Bioaccumulative potential

Data for the mixture are not available.

2-methoxy-1-methylethyl acetate					
Parameter	Value	Exposure time	Species	Environment	Temperature [°C]
Kow	1.2				

hexamethylene diisocyanate, oligomers					
Parameter	Value	Exposure time	Species	Environment	Temperature [°C]
Kow	5.54				
BCF	367.7				

n-butyl acetate					
Parameter	Value	Exposure time	Species	Environment	Temperature [°C]
Kow	2.3				
BCF	15.3				

Solvent naphtha (petroleum), light arom.					
Parameter	Value	Exposure time	Species	Environment	Temperature [°C]
Kow	>3.7				
BCF	>10				

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.

hexamethylene diisocyanate, oligomers	
Parameter	Value
K(soil-water)	7.3

n-butyl acetate	
Parameter	Value
K(soil-water)	<3

Solvent naphtha (petroleum), light arom.	
Parameter	Value
K(soil-water)	1.78

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. Recycle the product where possible. Dispose unused product as hazardous waste.

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

08 01 11* waste paint and varnish containing organic solvents or other hazardous substances

Packaging waste type code

15 01 10* packaging containing residues of or contaminated by hazardous substances

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

SECTION 14: Transport information

14.1. UN number or ID number

UN 1263

14.2. UN proper shipping name

PAINT

14.3. Transport hazard class(es)

3 Flammable liquids

14.4. Packing group

III

14.5. Environmental hazards

No

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

Special instructions: A3, A72, A192

Hazard identification No.	30
UN number	1263
Safety signs	3

Road transport - ADR

Limited quantities	5 L
Excepted quantities	E1
Transport category	3
Tunnel restriction code	(D/E)

Railway transport - RID

Excepted quantities	E1

Air transport - ICAO/IATA

Packaging instructions passenger	355
Cargo packaging instructions	366

Marine transport - IMDG

EmS (emergency plan)	F-E, S-E

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.

More information

Directive 2012/18/EU of the European parliament and of the Council - ANNEX I - Hazard categories: P5c FLAMMABLE LIQUIDS.

SECTION 16: Other information

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

EUH066	Repeated exposure may cause skin dryness or cracking.
EUH204	Contains isocyanates. May produce an allergic reaction.
H226	Flammable liquid and vapour.
H302+H312	Harmful if swallowed or in contact with skin.
H304	May be fatal if swallowed and enters airways.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.

H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
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.
H412	Harmful 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.
P261	Avoid breathing vapours.
P280	Wear protective gloves.
P370+P378	In case of fire: Use powder extinguisher/sand/carbon dioxide to extinguish.

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	European agreement concerning the international carriage of dangerous goods by road
Aquatic Acute	Hazardous to the aquatic environment
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Asp. Tox.	Aspiration hazard
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
EC	Identification code for each substance listed in EINECS
EC_{10}	Concentration of a substance when it is affected 10 % of the population
EC_{50}	Concentration of a substance when it is affected 50 % of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EU	European Union
EuPCS	European Product Categorisation System
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquid
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
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
Skin Sens.	Skin sensitization
STOT SE	Specific target organ toxicity - single exposure
UN	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 3.1 replaces the SDS version from Thursday, 15 June 2023. Changes were made in sections 1, 2, 8, 11, 12, 13 and 16.

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.