SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended

Techform smar CR8

Creation date	09th January 2024		
Revision date		Version	3.1

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

1.1. Product identifier — Techform smar CR8

Substance / mixture: mixture

UFI: HN5V-UJ8P-Q00E-XTNX

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

Mixture's intended use

Lubricating, separating preparation

Main intended use

PC-TEC-11 Lubricants, greases, release agents

Secondary uses

PC-TEC-17 Processing aids

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

Manufacturer

Name or trade name	Techplast Sp. z o.o.
Address	Ciepłownicza 8, Rzeszów, 35-959 Poland
VAT Reg No	PL8132993396
Phone	+48178642016
E-mail	b.sarna@techform.pl
Web address	www.techform.pl

Supplier

Name or trade name	Techplast Sp. z o.o.
Address	Ciepłownicza 8, Rzeszów, 35-959 Poland
VAT Reg No	PL8132993396
Phone	+48178642016
E-mail	b.sarna@techform.pl
Web address	www.techform.pl

Competent person responsible for the safety data sheet

Name	Techplast Sp. z o.o.
E-mail	b.sarna@techform.pl

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, H229, H222
Asp. Tox. 1, H304
Skin Irrit. 2, H315
STOT SE 3, H336
Repr. 2, H361
STOT RE 2, H373
Aquatic Chronic 2, H411

Most serious adverse physico-chemical effects

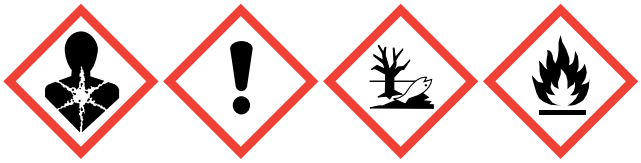
Extremely flammable aerosol. Pressurised container: May burst if heated.

Most serious adverse effects on human health and the environment

May cause damage to organs through prolonged or repeated exposure. Suspected of damaging fertility or the unborn child. May cause drowsiness or dizziness. Causes skin irritation. May be fatal if swallowed and enters airways. Toxic to aquatic life with long lasting effects.

2.2. Label elements

Hazard pictogram



Signal word

Danger

Hazardous substances

Węglowodory, C6-C7, n-alkany, izoalkany, cykliczne, >5% n-heksanu

Hazard statements

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic 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.
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.
P301+P310	IF SWALLOWED: Immediately call a doctor.
P331	Do NOT induce vomiting.
P410+P412	Protect from sunlight. Do no expose to temperatures exceeding 50 °C.

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.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture of substances and non-hazardous 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
EC: 924-168-8 Registration number: 01-2119475133-43-0011	Węglowodory, C6-C7, n-alkany, izoalkany, cykliczne, >5% n-heksanu	≤30	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Repr. 2, H361 STOT RE 2, H373 Aquatic Chronic 2, H411	5
Index: 601-004-00-0 CAS: 106-97-8 EC: 203-448-7	butane	<30	Flam. Gas 1, H220 Press. Gas (compressed gas), H280	1, 3
Index: 649-467-00-8 CAS: 64742-54-7 EC: 265-157-1	Distillates (petroleum), hydrotreated heavy paraffinic	15-25		4, 5

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 601-003-00-5 CAS: 74-98-6 EC: 200-827-9	propane	<20	Flam. Gas 1, H220 Press. Gas (compressed gas), H280	3
Index: 649-422-00-2 CAS: 64742-47-8 EC: 265-149-8	Distillates (petroleum), hydro- treated light	<3	Asp. Tox. 1, H304 EUH066	2, 5
Index: 603-117-00-0 CAS: 67-63-0 EC: 200-661-7 Registration number: 01-2119457558-25-0000	propan-2-ol	>1	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	

Notes

1 Note C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

2 Note L: The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3.

3 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).

4 Note L: The harmonised classification as a carcinogen applies unless it can be shown that the substance contains less than 3 % of dimethyl sulphoxide extract as measured by IP 346 ("Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions – Dimethyl sulphoxide extraction refractive index method" Institute of Petroleum, London), in which case a classification in accordance with Title II of this Regulation shall be performed also for that hazard class.

5 Substance of unknown or variable composition, complex reaction products or biological materials - UVCB.

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

Do not perform artificial respiration without self-protection (e.g. a mask). If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

If inhaled

Take care of your own safety, do not let the affected person walk! Terminate the exposure immediately; move the affected person to fresh air. Beware of the contaminated clothes. Depending on the situation, call the medical rescue service and ensure medical treatment considering the frequent need of further observation for at least 24 hours.

If on skin

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible.

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. Provide medical treatment, specialized if possible.

If swallowed

If the affected person vomits, make sure to prevent inhalation of the vomit (as there is a danger of lung damage after inhalation of these liquids in the airways also in infinitesimal amount). Provide medical treatment considering the frequent need of further observation for at least 24 hours. Bring an original container with the label and the Safety Data Sheet of the given substance as appropriate.

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

If inhaled

Cough, headache. May cause drowsiness or dizziness.

If on skin

Causes skin irritation.

If in eyes

When intruding eyes, it can evoke irritation.

If swallowed

Irritation, nausea.

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

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

Unsuitable extinguishing media

Water - full jet.

5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. 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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide sufficient ventilation. Extremely flammable aerosol. Pressurised container: May burst if heated. Remove all ignition sources. Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale gases and vapours. Prevent contact with skin and eyes.

6.2. Environmental precautions

Do not allow to enter drains. Prevent contamination of the soil and entering surface or ground water.

6.3. Methods and material for containment and cleaning up

Ventilate the room. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water.

6.4. Reference to other sections

See the Section 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Prevent formation of gases and vapours in flammable or explosive concentrations and concentrations exceeding the occupational exposure limits. The product should be used only in the areas where it is not in contact with open fire and other ignition sources. Use non-sparking tools. Use of antistatic clothes and footwear is recommended. Do not inhale gases and vapours. Prevent contact with skin and eyes. No smoking. Protect against direct sunlight. Obtain special instructions before use. Do not pierce or burn, even after use. Wash hands and exposed parts of the body thoroughly after handling. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Avoid release to the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Store locked up. Protect from sunlight. Keep container tightly closed. Do not expose to temperatures exceeding 50 °C.

Content	Packaging type	Material of package
400 ml	aerosol can	FE

Storage temperature 50 °C

7.3. Specific end use(s)

Lubricating, separating preparation

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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

DNEL

Distillates (petroleum), hydrotreated heavy paraffinic					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	5.4 mg/m³/8h	Chronic effects local		
Consumers	Inhalation	1.2 mg/m³/24h	Chronic effects local		

propan-2-ol					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Dermal	888 mg/kg	Chronic effects systemic		
Workers	Inhalation	500 mg/m³	Chronic effects systemic		
Consumers	Dermal	319 mg/kg	Chronic effects systemic		
Consumers	Inhalation	89 mg/m³	Chronic effects systemic		
Consumers	Oral	26 mg/kg	Chronic effects systemic		

Węglowodory, C6-C7, n-alkany, izoalkany, cykliczne, >5% n-heksanu					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	145 mg/m³	Chronic effects local		
Workers	Dermal	21 mg/kg/24h	Chronic effects local		
Consumers	Inhalation	27 mg/m³	Chronic effects local		
Consumers	Oral	8 mg/kg/24h	Chronic effects local		
Consumers	Dermal	9 mg/kg/24h	Chronic effects local		

PNEC

Distillates (petroleum), hydrotreated heavy paraffinic			
Route of exposure	Value	Value determination	Source
Food chain	9.33 mg/kg of food		

propan-2-ol			
Route of exposure	Value	Value determination	Source
Drinking water	140.9 mg/l		
Marine water	140.9 mg/l		
Freshwater sediment	552 mg/kg		
Sea sediments	552 mg/kg		
Soil (agricultural)	28 mg/kg		

8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. If exposure limits cannot be observed in this mode, suitable protection of airways must be used. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

Protective goggles.

Skin protection

Hand protection: Protective gloves resistant to the product. Wear protective gloves that are impermeable and resistant to the product (e.g. neoprene, nitrile). It is recommended to change the gloves regularly and replace them immediately if they show any signs of wear, damage (tearing, holes) or changes in appearance (color, elasticity, shape). The selection of the permeation resistance class depends on the time of exposure to the factor and should be selected in accordance with the EN 374 standard. The thickness of the glove layer is determined by the manufacturer based on the permeation exposure class. Penetration time of the glove material: the exact breakthrough time must be obtained from the glove manufacturer and must be observed. Protective nitrile gloves: glove layer thickness at least: 0.34 mm Neoprene protective gloves: in case of contact with a stream of sprayed liquid, protection is recommended at least according to the protection index class 2, in accordance with the penetration time above 30 min. (EN 374). Glove layer thickness: at least: 0.75 mm. In the case of prolonged and intensive contact, protection according to the protection index class 6 is recommended, with a penetration time of over 480 minutes (EN 374). Glove layer thickness: at least: 1.35 mm. Other protection: protective workwear. Contaminated skin should be washed thoroughly.

Respiratory protection

Under regular circumstances it is not necessary. In case of inadequate ventilation wear respiratory protection.

Thermal hazard

Data not available.

Environmental exposure controls

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	gas
Colour	colourless
Odour	characteristic
Melting point/freezing point	data not available
Distillates (petroleum), hydrotreated heavy paraffinic (CAS: 64742-54-7)	-12 °C
Boiling point or initial boiling point and boiling range	64 °C
Distillates (petroleum), hydrotreated heavy paraffinic (CAS: 64742-54-7)	250-350 °C
Flammability	Extremely flammable aerosol.
Lower and upper explosion limit	data not available
Flash point	-35 °C

Distillates (petroleum), hydrotreated heavy paraffinic (CAS: 64742-54-7)	>190 °C
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	gas
Kinematic viscosity	data not available
Distillates (petroleum), hydrotreated heavy paraffinic (CAS: 64742-54-7)	>28 mm²/s at 40 °C
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	0.8 g/cm³
Distillates (petroleum), hydrotreated heavy paraffinic (CAS: 64742-54-7)	0.870 g/cm³ at 15 °C
Relative vapour density	data not available
Particle characteristics	data not available
Form	data not available
Distillates (petroleum), hydrotreated heavy paraffinic (CAS: 64742-54-7)	liquid

9.2. Other information

Evaporation rate	non-applicable
Appearance	spray
Explosive properties	Vapours mixed up with air can be explosive.

SECTION 10: Stability and reactivity

10.1. Reactivity

not available

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Unknown.

10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost. Pressurised container: May burst if heated.

10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

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

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

not available

Distillates (petroleum), hydro- treated light						
Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination
Oral	LD_{50}	>2000 mg/kg		Rat (Rattus norvegicus)		

Distillates (petroleum), hydro- treated light						
Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination
Skin	LD_{50}	>2000 mg/kg		Rabbit		
Inhalation	LC_{50}	>5000 mg/m³	4 hours	Rat (Rattus norvegicus)		

Distillates (petroleum), hydrotreated heavy paraffinic						
Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination
Oral	LD_{50}	>5000 mg/kg		Rat (Rattus norvegicus)		
Skin	LD_{50}	>5000 mg/kg		Rabbit		
Inhalation	LC_{50}	>5.53 mg/l		Rat (Rattus norvegicus)		

propan-2-ol						
Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination
Oral	LD_{50}	>2000 mg/kg		Rat (Rattus norvegicus)		Literary studies
Inhalation	LC_{50}	>20 mg/l	8 hours	Rat (Rattus norvegicus)		
Dermal	LD_{50}	>2000 mg/kg		Rabbit		

Węglowodory, C6-C7, n-alkany, izoalkany, cykliczne, >5% n-heksanu						
Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination
Oral	LD_{50}	>5840 mg/kg		Rat (Rattus norvegicus)		
Skin	LD_{50}	>2920 mg/kg		Rat (Rattus norvegicus)		
Inhalation	LC_{50}	>25200 mg/m³	4 hours	Rat (Rattus norvegicus)		

Skin corrosion/irritation
Causes skin irritation.

propan-2-ol			
Route of exposure	Result	Exposure time	Species
	Not irritating, Not sensitizing		Rabbit

Węglowodory, C6-C7, n-alkany, izoalkany, cykliczne, >5% n-heksanu			
Route of exposure	Result	Exposure time	Species
	Drying and cracking of the skin		

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

propan-2-ol			
Route of exposure	Result	Exposure time	Species
	Irritating		Rabbit

Respiratory or skin sensitisation
Based on available data the classification criteria are not met.

propan-2-ol				
Route of exposure	Result	Exposure time	Species	Sex
	Not sensitizing		Rabbit	

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

propan-2-ol				
Result	Exposure time	Specific target organ	Species	Sex
Negative			Bacteria (Salmonella typhimurium)	

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

Reproductive toxicity
Suspected of damaging fertility or the unborn child.

Toxicity for specific target organ - single exposure
May cause drowsiness or dizziness.

Węglowodory, C6-C7, n-alkany, izoalkany, cykliczne, >5% n-heksanu					
Route of exposure	Parameter	Value	Result	Species	Sex
Inhalation			Dizziness		

Toxicity for specific target organ - repeated exposure
May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard
May be fatal if swallowed and enters airways.

11.2. Information on 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.

SECTION 12: Ecological information

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

Acute toxicity

Distillates (petroleum), hydro- treated light					
Parameter	Value	Exposure time	Species	Environment	Source
LC_{50}	>1000 mg/l		Fish (Oncorhynchus mykiss)		
LC_{50}	>540 mg/kg		Invertebrates		protokół PARCOM

propan-2-ol					
Parameter	Value	Exposure time	Species	Environment	Source
LC_{50}	>100 mg/l	48 hours	Fish (Leuciscus idus)		
EC_{50}	>100 mg/l	48 hours			
EC_{50}	>100 mg/l	72 hours	Algae and other aquatic plants (Scenedesmus subspicatus)		

Węglowodory, C6-C7, n-alkany, izoalkany, cykliczne, >5% n-heksanu					
Parameter	Value	Exposure time	Species	Environment	Source
NOEC	0.17 mg/l	21 days	Aquatic microorganisms (Daphnia magna)	Fresh water	
LL_{50}	11.4 mg/l	96 hours	Fish (Oncorhynchus mykiss)		
EL_{50}	3-22 mg/l	48 hours	Aquatic microorganisms (Daphnia magna)		
EL_{50}	35.29 mg/l	48 hours	Aquatic microorganisms (Tetrahymena pyriformis)		
NOEL	2.028 mg/l	28 days	Fish (Oncorhynchus mykiss)		

12.2. Persistence and degradability

not available

Biodegradability

Distillates (petroleum), hydro- treated light					
Parameter	Method	Value	Exposure time	Environment	Result
	OECD 301B	83 %	28 days		

12.3. Bioaccumulative potential

Data not available.

12.4. Mobility in soil

Data not available.

12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

12.6. Endocrine disrupting properties

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.

12.7. Other adverse effects

Data not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. 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. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

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

07 01 04* other organic solvents, washing liquids and mother liquors

Packaging waste type code

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

15 01 04 metallic packaging

(*) - 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

II

14.5. Environmental hazards

Toxic to aquatic organisms.

14.6. Special precautions for user

Reference in the Sections 4 to 8. Make sure that the person transporting the product knows the ways of handling the product in the event of accident.

14.7. Maritime transport in bulk according to IMO instruments

It is not intended for transport in bulk

Additional information

Hazard identification No.	
UN number	1950
Classification code	5F
Safety signs	2.1+hazardous for the environment

Tunnel restriction code	(D)

Air transport - ICAO/IATA

Packaging instructions passenger	203
Cargo packaging instructions	203

Marine transport - IMDG

EmS (emergency plan)	F-D, S-U
MFAG	620

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

There was no evaluation.

SECTION 16: Other information

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

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
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.
P301+P310	IF SWALLOWED: Immediately call a doctor.
P331	Do NOT induce vomiting.
P410+P412	Protect from sunlight. Do no expose to temperatures exceeding 50 °C.

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

EUH066	Repeated exposure may cause skin dryness or cracking.

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

ADR	European agreement concerning the international carriage of dangerous goods by road
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_{50}	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EL_{50}	Effective Loading for 50% of the tested organisms
EmS	Emergency plan
EU	European Union
EuPCS	European Product Categorisation System
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
LL_{50}	Lethal Loading for 50% of tested organisms
log Kow	Octanol-water partition coefficient
NOEC	No observed effect concentration
NOEL	No observed effect level
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
ppm	Parts per million
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	Agreement on the transport of dangerous goods by rail
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

Aerosol	Aerosol
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Asp. Tox.	Aspiration hazard
Eye Irrit.	Eye irritation
Flam. Gas	Flammable gas
Flam. Liq.	Flammable liquid
Press. Gas	Gases under pressure
Repr.	Reproductive toxicity
Skin Irrit.	Skin irritation
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure

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 29 December 2022. Changes were made in sections 2, 13, 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.