

The safety data sheet complies with Commission Regulation (EU) 878/2020 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) .

BTS

Creation date	22nd October 2003	Version	16
Revision date	29th November 2022		

2.2. Label elements

Hazard pictogram



Signal word

Danger

Hazard statements

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H336	May cause drowsiness or dizziness.
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.
P260	Do not breathe vapours/spray.
P273	Avoid release to the environment.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C.
P501	Dispose of contents/container to in accordance with local regulations.

2.3. Other hazards

Neither the mixture nor its components meet the criteria for persistent, bioaccumulative and toxic or highly persistent and highly bioaccumulative substances in accordance with Annex XIII, nor have they been included in the list drawn up in accordance with Article 59, paragraph 1, due to the content of endocrine disruptors, nor has it been determined as a substance 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 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: 601-006-00-1 CAS: 109-66-0 EC: 203-692-4 Registration number: 01-2119459286-30	pentane	25-50	Flam. Liq. 2, H225 Asp. Tox. 1, H304 STOT SE 3, H336 Aquatic Chronic 2, H411 EUH066 Specific concentration limit: STOT SE 3, H336: C ≥ 20 % Aquatic Chronic 2, H411: C ≥ 25 %	1, 3
Index: 601-003-00-5 CAS: 74-98-6 EC: 200-827-9	propane	12,5-20	Press. Gas, Flam. Gas 1, H220	2
Index: 601-004-00-0 CAS: 106-97-8 EC: 203-448-7	butane	10-12,5	Press. Gas, Flam. Gas 1, H220	1, 2

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Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 601-004-00-0 CAS: 75-28-5 EC: 200-857-2	isobutane	10-12,5	Press. Gas, Flam. Gas 1, H220	1, 2
EC: 920-750-0	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cycloalkanes	10-12,5	Flam. Liq. 2, H225 Asp. Tox. 1, H304 STOT SE 3, H336 Aquatic Chronic 2, H411 Specific concentration limit: STOT SE 3, H336: C ≥ 20 % Aquatic Chronic 2, H411: C ≥ 25 %	3

Notes

- 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.
- 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).

- 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

In case of health problems or in case of doubt, consult a physician and provide him with the information in this safety data sheet. In case of life-threatening conditions, perform resuscitation. Keep unconscious person in a stabilized position and do not give anything by mouth. Avoid cooling. Do not induce vomiting. In case of spontaneous vomiting, avoid inhalation of vomitus. If burns occur, cool the burn with cold water and cover with a clean cloth.

If inhaled

If inhaled, leave the area, rinse the mouth with water, inhale fresh air. If breathing is difficult, give first aid and seek medical advice.

If on skin

Wipe the product, wash thoroughly with lukewarm water, soap and treat with regenerating cream. If clothing is contaminated, remove clothing. Seek medical attention if irritation develops.

If in eyes

If the affected person has contact lenses, remove them. Flush eyes wide open from the inner corner of the eye towards the outside with plenty of clean lukewarm water, especially the area under the eyelids. Rinse for at least 15 minutes, seek medical attention.

If swallowed

In the case of an aerosol product, ingestion is very unlikely. Do not induce vomiting, rinse mouth with water. Seek medical attention immediately and present this safety data sheet. Danger of vomiting!

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

If inhaled

Inhalation may cause mild irritation of the mucous membranes and respiratory tract. Inhalation of vapors causes headaches, dizziness, malaise, fatigue and general weakness. Inhalation of vapors exceeding the NPK-P value can cause acute inhalation poisoning depending on the concentration and duration of exposure.

If on skin

Frequent or prolonged skin contact causes dryness or cracking of the skin to dermatitis.

If in eyes

Irritating to the eyes (watering, burning, itching, redness, conjunctivitis).

If swallowed

The penetration of the liquid fraction into the respiratory tract upon ingestion or aspiration of the vomiting following emesis may result in bronchopneumonia or pneumonia.

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

Immediate medical attention is not required during normal use of the mixture. Required only if symptoms reach a certain level, as indicated in paragraphs 4.1 and 4.2; is symptomatic.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Multipurpose powders, CO₂, foam, water mist, sand.

Unsuitable extinguishing media

Full stream of water. Crushed water can be used to cool the containers near the fire.

5.2. Special hazards arising from the substance or mixture

Extremely flammable mixture. Incomplete combustion or thermal decomposition can produce toxic gases (CO_x, hydrocarbons, thick smoke, etc.). Do not inhale decomposition products. Vapors are heavier than air, accumulate in lower positions, can spread over long distances. When mixed with air, they can form an explosive mixture. Danger of re-ignition There is a risk of the pressure vessel exploding at higher temperatures.

5.3. Advice for firefighters

Isolation breathing apparatus and non-flammable intervention suit. Use non-sparking tools. Cool containers exposed to fire with water spray or foam. Burning residues and post-intervention water should be disposed of as hazardous waste.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Prevent unauthorized entry, ensure free escape. Ensure adequate ventilation, do not breathe aerosol. Eliminate possible sources of ignition, do not smoke, do not handle open flame, do not expose to direct sunlight. Use non-sparking tools, avoid electrostatic charge. Avoid contact with skin and eyes - use personal protective equipment.

6.2. Environmental precautions

Provide a spill area, prevent leakage into drains, soil, surface and ground water. In case of a large liquid leak, monitor the NPK concentrations resp. TLV and inform the relevant public authorities and the flow or sewerage manager.

6.3. Methods and material for containment and cleaning up

Stop the leak. In case of large leakage of liquid fraction, drain the mixture. The aerosol evaporates, ensure adequate ventilation. In case of a minor leakage of the liquid fraction, cover with a non-flammable sorbent (sand, diatomaceous earth, soil, universal sorbent, etc.), store the used sorbent in a closable waste container, mark it and dispose of it as hazardous waste. Wash contaminated area with water.

6.4. Reference to other sections

See the Section 7, 8 and 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Ensure adequate ventilation of the work area. Avoid contact with open flames and other sources of ignition. Protect against direct sunlight. Use non-sparking tools. Take precautionary measures against static discharge. Avoid the formation of gases and vapors in flammable or explosive concentrations and concentrations exceeding the maximum permissible concentrations (NPK-P) for the working atmosphere. Protect eyes and skin, do not breathe aerosol or fumes, use personal protective equipment according to section 8. Observe valid legal regulations on safety and health protection. Follow the principles of hygiene when working with chemicals, do not eat, drink or smoke while working. Wash hands with warm soap and water before breaks, meals and after work.

7.2. Conditions for safe storage, including any incompatibilities

Store in original containers at temperatures up to 50 ° C in dry, well-ventilated areas. Store away from heat, protect from direct sunlight and external weather conditions. Store away from food, drink and animal feeding stuffs. Store separately as flammable. No smoking. Observe the general regulations for storage of pressure vessels. Follow the instructions on the label.

Content	Packaging type	Material of package
400 ml	aerosol can	FE
Storage class	2B - Aerosols	
Storage temperature	max. 50 °C	

7.3. Specific end use(s)

It is not.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Ensure compliance with governmental regulation 361/2007 Coll., Laying down the conditions for the protection of health at work, as amended, and to fulfill the obligations contained therein.

Czech Republic

Government Regulation 330/2023 Coll.

Substance name (component)	Type	Value
pentane (CAS: 109-66-0)	NPK-P	4500 mg/m ³
	PEL	3000 mg/m ³
	PEL	1000 ppm
	NPK-P	1500 ppm
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cycloalkanes	PEL	400 mg/m ³
	NPK-P	1000 mg/m ³

European Union

Commission Directive 2006/15/EC

Substance name (component)	Type	Value
pentane (CAS: 109-66-0)	OEL 8 hours	3000 mg/m ³
	OEL 8 hours	1000 ppm

DNEL

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cycloalkanes					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	2035 mg/m ³	Chronic effects systemic		
Workers	Dermal	773 mg/kg/24h	Chronic effects systemic		

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pentane					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	3000 mg/m ³	Chronic effects systemic		
Workers	Dermal	432 mg/kg/24h	Chronic effects systemic		

PNEC

pentane			
Route of exposure	Value	Value determination	Source
Microorganisms in sewage treatment	3600 µg/l		
Freshwater environment	230 µg/l		
Marine water	230 µg/l		
Soil (agricultural)	0.55 mg/kg		
Freshwater sediment	1.2 mg/kg		
Sea sediments	1.2 mg/kg		

8.2. Exposure controls

Ensure sufficient ventilation or extraction of the work area. In case of exceeding the NPK-P, use suitable respiratory protection. Avoid contact with skin and eyes, do not inhale aerosols, gases and vapors. Observe hygienic measures when working with chemicals. Do not eat, drink and smoke during work. Wash hands with lukewarm soap and water before breaks, meals and after work. Adapt personal protective equipment to the nature of the work.

Eye/face protection

Not needed. Wear safety glasses if there is a risk of eye contact.

Skin protection

Work clothes. Take off contaminated clothing and wash before reuse. In case of long-term or repeated exposure, use protective gloves (material eg nitrile, 0.4 mm; viton, 0.7 mm, penetration time > 480 min.), Or other according to the performed test. When choosing, follow the manufacturer's recommendations, the material must be impermeable and resistant to the components of the mixture. Replace damaged gloves.

Respiratory protection

It is not necessary under normal conditions. In case of increased risk of inhalation and insufficient ventilation use a mask with a filter against organic vapors and aerosols, type A. In the event of an accident or for long-term exposure, use a self-contained breathing apparatus.

Thermal hazard

Exposure to elevated temperatures may result in tearing of the aerosol container when overheating.

Environmental exposure controls

It is not necessary if handling conditions are observed. Observe normal environmental precautions, do not allow to enter drains, soil or water sources.

More information

Ensure compliance with governmental regulation 361/2007 Coll., Laying down the conditions for the protection of health at work, as amended, and to fulfill the obligations contained therein.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	whitish
Odour	characteristic
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	data not available
Flammability	Extremely flammable mixture.

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Lower and upper explosion limit	
bottom	0.6 %
upper	10.9 %
Flash point	<0 °C
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	data not available
Kinematic viscosity	data not available
Solubility in water	very slightly soluble to insoluble
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	8 hPa at 20 °C
Density and/or relative density	data not available
Relative vapour density	data not available
Particle characteristics	data not available

9.2. Other information

Soluble in common organic solvents.
 Density and/or relative density (at 20 °C): 670 kg/m³
 VOC content 74% (497.3 g/l)
 Content of organic solvents: 74%
 Content of non-volatile components: 0%
 Explosive properties: Not explosive.
 Solvent vapors can form an explosive mixture when mixed with air.
 Oxidizing properties: The mixture is not classified as oxidizing.

SECTION 10: Stability and reactivity

10.1. Reactivity

The mixture is flammable. In normal conditions, the mixture does not show dangerous reactions.

10.2. Chemical stability

The mixture is stable under normal environmental conditions, storage and handling.

10.3. Possibility of hazardous reactions

No dangerous reactions are known. There is a risk of pressure explosion when exposed to high temperatures containers. Solvent vapors can form an explosive mixture when mixed with air.

10.4. Conditions to avoid

Temperatures above 50 °C, contact with open flames, possible sources of ignition and hot surfaces, sparks, static electricity. Avoid the formation of a concentration within explosive limits.

10.5. Incompatible materials

Flammable materials, strong oxidizing agents, strong acids and alkalis.

10.6. Hazardous decomposition products

Under normal conditions, the mixture does not decompose. Imperfect combustion or thermal decomposition produces toxic combustion products: CO_x, heavy smoke, hydrocarbons, etc.

SECTION 11: Toxicological information

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

The mixture meets the criteria for classification according to EC Regulation No. 1272/2008. The mixture is classified as dangerous in the sense of EC Regulation No. 1272/2008, as amended.

Acute toxicity

The mixture is not classified as acutely toxic by any way of exposure.

butane					
Route of exposure	Parameter	Value	Exposure time	Species	Sex
Inhalation	LC ₅₀	658 mg/l	4 hours	Rat	

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Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cycloalkanes

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD ₅₀	>5840 mg/kg		Rat	
Dermal	LD ₅₀	>2920 mg/kg		Rabbit	
Inhalation	LC ₅₀	>23300 mg/m ³	4 hours	Rat	

isobutane

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Inhalation	LC ₅₀	658 mg/l	4 hours	Rat	

pentane

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD ₅₀	16000 mg/kg		Rat	
Inhalation	LD ₅₀	>100 mg/m ³	4 hours	Rat	
Dermal	LD ₅₀	3000 mg/kg		Rabbit	

propane

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Inhalation	LC ₅₀	658 mg/l	4 hours	Rat	

Skin corrosion/irritation

Based on the available data, the classification criteria are not met. Frequent or long-term contact with the skin can cause dryness, cracking of the skin and even dermatitis.

Serious eye damage/irritation

Based on available data the classification criteria are not met.

Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

Germ cell mutagenicity

Based on available data the classification criteria are not met.

Carcinogenicity

Based on available data the classification criteria are not met.

Reproductive toxicity

Based on available data the classification criteria are not met.

Toxicity for specific target organ - single exposure

The mixture is classified as toxic for specific target organs after single exposure, category 3. It can cause drowsiness, dizziness, the mixture has narcotic effects.

Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

Aspiration hazard

Based on available data the classification criteria are not met.

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11.2. Information on other hazards

It does not contain substances causing disruption of the endocrine system. Inhalation may cause mild irritation of the mucous membranes and respiratory tract. Inhalation of vapors causes headaches, dizziness, malaise, fatigue and general weakness. Inhalation of vapors exceeding the NPK-P value can cause acute inhalation poisoning depending on the concentration and duration of exposure. Ingestion of liquid into the respiratory system during ingestion or aspiration of vomit during subsequent vomiting may cause bronchopneumonia or pulmonary edema. Direct contact with the eyes can cause slight short-term eye irritation (redness, burning in the eyes, tearing). Frequent or long-term contact with the skin can cause dryness, cracking of the skin and even dermatitis. Ingestion of the liquid may cause irritation of the digestive tract, abdominal pain and nausea. Vomiting and diarrhea may occur.

SECTION 12: Ecological information

12.1. Toxicity

The ecotoxic effects of the mixture were not assessed. Observe the usual environmental precautions.

Acute toxicity

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cycloalkanes				
Parameter	Value	Exposure time	Species	Environment
LL ₅₀	3-10 mg/l	96 hours	Fish (Oncorhynchus mykiss)	
NOELR	0.57 mg/l	28 days	Fish (Oncorhynchus mykiss)	
EL ₅₀	4.6-10 mg/l	48 hours	Invertebrates (Daphnia magna)	
NOELR	1 mg/l	21 days	Invertebrates (Daphnia magna)	
EbL ₅₀	10-30 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)	
ErL ₅₀	30-100 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)	
NOELR	6.3 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata - biomasa)	
NOELR	6.3 mg/kg	72 hours	Algae (Pseudokirchneriella subcapitata - GRI)	

pentane				
Parameter	Value	Exposure time	Species	Environment
LC ₅₀	11.9 mg/l	24 hours	Invertebrates (Artemia salina)	
EC ₅₀	1 mg/l	8 hours	Fish	
EC ₅₀	9.74 mg/l	48 hours	Invertebrates (Daphnia magna)	

12.2. Persistence and degradability

No data available, the mixture is volatile

12.3. Bioaccumulative potential

Not determined, bioaccumulation is unlikely. Not determined.

12.4. Mobility in soil

Not determined.

12.5. Results of PBT and vPvB assessment

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The mixture does not contain substances from the PBT and vPvB groups according to Annex XIII of the REACH Regulation, as amended.

12.6. Endocrine disrupting properties

Substances with these properties in accordance with the criteria set out in Commission Regulation (EU) 2017/2100 or (EU) 2018/605 are not included.

12.7. Other adverse effects

The mixture is dangerous for the environment, even if small quantities can contaminate drinking water sources. Do not get into the ground, underground or surface water or sewers. Observe the usual precautions to protect the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of as hazardous waste. Dispose of at an authorized person or to a hazardous waste collection yard. Dispose of mixture and packaging residues in accordance with local waste disposal regulations. Dispose of contaminated packaging as hazardous waste.

Waste management legislation

Act No. 477/2001 Coll., On Packaging, as amended. Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended.

Waste type code

14 06 03* other solvents and solvent mixtures
20 01 13* Solvents

Packaging waste type code

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

No.

14.6. Special precautions for user

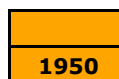
Transport in packages that match the properties of the mixture. Observe the prescribed marking for cargo.

14.7. Maritime transport in bulk according to IMO instruments

Can not be used.

Additional information

Hazard identification No.
UN number
Classification code
Safety signs



5F

2.1+dangerous for the environment



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Road transport - ADR

Special provisions	190, 327, 344, 625
Limited quantities	1 L
Excepted quantities	E0

Packaging

Packing instructions	P207, LP200
Special packing provisions	PP87, RR6, L2
Mixed packing provisions	MP9
Transport category	2
Tunnel restriction code	(D)

Special provision for

packages	V14
loading, unloading and handling operation	CV9, CV12 S2

Railway transport - RID

Special provisions	190, 327, 344, 625
Excepted quantities	E0

Packaging

Packing instructions	P207, LP200
Special packing provisions	PP87, RR6, L2
Mixed packing provisions	MP9
Transport category	0

Special provision for

packages	W14
loading, unloading and handling	CW9, CW12

Air transport - ICAO/IATA

Packaging instructions for limited amount	Y203
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

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. COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH). Commission Delegated Regulation (EU) 2021/849 of 11 March 2021 amending, for the purposes of adapting to technical and scientific progress, Part 3 of Annex VI to Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labeling and packaging of substances and mixtures. REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents, as amended. Commission Regulation (EU) No 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals.

15.2. Chemical safety assessment

No chemical hazard assessment was performed for this mixture.

More information

This information only indicates the basic regulations listed in this Safety Data Sheet. Please note the possible existence of additional regulations supplementing these Regulations. We refer to all applicable national, international and local regulations and regulations.

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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.

H304	May be fatal if swallowed and enters airways.
H336	May cause drowsiness or dizziness.
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.
P260	Do not breathe vapours/spray.
P273	Avoid release to the environment.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C.
P501	Dispose of contents/container to in accordance with local regulations.

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

EUH066	Repeated exposure may cause skin dryness or cracking.
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Other important information about human health protection

The mixture should not be used for any purpose other than that for which it is intended (see point 1.2). Because the supplier can not control the specific conditions of use of the mixture, it is the responsibility of the user to adapt the prescribed warnings to local laws and regulations. Safety information describes the product in terms of safety and can not be considered as technical product information.

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

SAFETY DATA SHEET

The safety data sheet complies with Commission Regulation (EU) 878/2020 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) .

BTS

Creation date	22nd October 2003	Version	16
Revision date	29th November 2022		

LL ₅₀	Lethal Loading for 50% of tested organisms
log K _{ow}	Octanol-water partition coefficient
NOEL	No observed effect level
NOELR	No Observed Effect Loading Rate
NPK	Maximum admissible concentration
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
PEL	Permissible Exposure Limit
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
Flam. Gas	Flammable gas
Flam. Liq.	Flammable liquid
Press. Gas	Gases under pressure
STOT SE	Specific target organ toxicity - single exposure

Training guidelines

According to § 103 and § 104 of Act No. 262/2006 Coll., The Labor Code, as amended. 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

The mixture should not be used for any purpose other than that for which it is intended (see point 1.2). Because the specific conditions of use of the substance are beyond the control of the supplier, it is the responsibility of the user to adapt the prescribed warnings to local laws and regulations. Safety information describes the product in terms of safety and can not be considered as technical product information.

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)

Adaptation of BL updated Annex II of the REACH Regulation as amended by Commission Regulation (EU) 2020/878.

Statement

The safety data sheet contains the data needed to ensure safety and health at work and environmental protection. These data correspond to the current state of knowledge and experience and are in accordance with applicable legal regulations. They can not be considered as a guarantee of the suitability and usability of the product for a specific application. The user is responsible for the treatment under existing laws and regulations.