

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) .

MOS

Creation date	22nd October 2003	Version	5
Revision date	28th November 2022		

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

1.1. Product identifier MOS
Substance / mixture mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against
Mixture's intended use

Copper protective spray

The use descriptors

IS Use at industrial sites

PW Widespread use by professional workers

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	NOVATO
Address	Uralská 770/6, Praha, 160 00 Czech Republic
Identification number (CRN)	62910370
VAT Reg No	CZ62910370
Phone	+420 233 339 688
E-mail	petr.johanides@novato.cz
Web address	www.novato.cz

Competent person responsible for the safety data sheet

Name	ABITEC
E-mail	info@abitec.cz

1.4. Emergency telephone number

European emergency number: 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

The mixture is classified as dangerous.

Aerosol 1, H229, H222

STOT SE 3, H336

Aquatic Chronic 2, H411

Most serious adverse physico-chemical effects

The mixture is extremely flammable. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 ° C. Do not pierce or throw into an empty container. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep out of reach of children.

Most serious adverse effects on human health and the environment

Inhalation of the aerosol may cause headache, fatigue, drowsiness, and exceptionally irritation of the mucous membranes and respiratory tract. Do not breathe aerosol. Frequent or prolonged skin contact causes dryness or cracking of the skin to dermatitis. The mixture is dangerous for the environment. Follow the instructions for use to avoid risks to humans and the environment. The liquid is lighter than water and can cover the water surface. The mixture is toxic to aquatic organisms, must not enter soil, ground or surface water or sewage system. Put the empty container in a special container for hazardous waste. The full text of the classifications and H-statements is given in section 16 of this safety data sheet

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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.
P261	Avoid breathing vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C.
P501	Dispose of contents/container to in accordance with local regulations.

Supplemental information

EUH066 Repeated exposure may cause skin dryness or cracking.

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	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 %	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

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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
Index: 601-004-00-0 CAS: 106-97-8 EC: 203-448-7	butane	10-12,5	Flam. Gas 1, H220 Press. Gas (compressed gas), H280	1, 2
Index: 029-024-00-X CAS: 7440-50-8 EC: 231-159-6	coppera	2,5-5	Aquatic Chronic 2, H411	3
CAS: 68649-42-3 EC: 272-028-3	zinc alkyldithiophosphate	0,1-1	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411 Specific concentration limit: Eye Dam. 1, H318: C ≥ 3 % Eye Irrit. 2, H319: 1 % ≤ C < 3 % Skin Irrit. 2, H315: C ≥ 10 %	

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

During normal use and following the instructions in the instructions for use, there is no risk to health and therefore no medical attention is required. In all cases of doubt, or when feeling unwell, seek medical advice and show this safety data sheet to the physician. In case of life-threatening conditions, perform resuscitation. Place the unconscious person in a stable position and do not give anything by mouth. Avoid cooling down. Do not induce vomiting. Avoid inhalation of vomit in case of spontaneous vomiting. If a burn burns, cool the burn with cold water and cover with a clean cloth.

If inhaled

If inhaling, leave the area, rinse the mouth with water, inhale fresh air. Seek medical attention if respiratory irritation or difficulty breathing occurs and persists.

If on skin

Wipe off 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.

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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 inhaling vomit!

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

If inhaled

Inhalation may result in mild irritation of mucous membranes and respiratory tract. Inhalation of vapors causes headaches, dizziness, malaise, fatigue and general weakness. Inhalation of vapors in excess of NPK-P may cause acute inhalation poisoning depending on concentration and time of exposure. Infiltration of the respiratory tract with ingestion or aspiration of vomit with subsequent vomiting may cause bronchopneumonia or pulmonary edema.

If on skin

Frequent or prolonged skin contact may cause dryness, cracking of the skin and dermatitis.

If in eyes

not available

If swallowed

Ingestion of fluid may cause gastrointestinal irritation, abdominal pain and nausea.

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

In the case of the usual use of the mixture and following the instructions in the instructions for use, immediate medical assistance is not required. Special treatment is required if symptoms of a certain degree occur, according to the data in sections 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. Imperfect combustion or thermal decomposition can produce toxic gases (CO_x, hydrocarbons, dense smoke, etc.). Do not breathe decomposition products. Vapors are heavier than air and may accumulate in lower positions and may spread over long distances. When mixed with air, they may 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. Cover the product near the fire with spray water or cover with foam. Fire residues and water after treatment should be disposed of as hazardous waste.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

6.2. Environmental precautions

Ensure escape area, do not allow to enter into sewers, soil, surface and ground water. In the event of a large leak, monitor NPK concentrations or concentrations. TLV and inform the appropriate governmental authorities and the flow or sewerage manager.

6.3. Methods and material for containment and cleaning up

Stop leak. In the event of a large liquid leak, drain the mixture. The aerosol evaporates, ensure adequate ventilation. In case of a small 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 and dispose of as hazardous waste. Wash contaminated area with water.

6.4. Reference to other sections

For recommended personal protective equipment, see Section 8. Dispose of unused product according to section 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 from direct sunlight. Use non-sparking tools. Take precautionary measures against static discharges. Avoid the formation of gases and vapors in flammable or explosive concentrations and concentrations in excess of the maximum permissible concentrations (NPK-P) for the working atmosphere. Protect eyes and skin, do not inhale aerosols or vapors, use personal protective equipment according to sec. 8. Observe the applicable safety and health regulations. 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 places. 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. Don't smoke. 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)

not available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Czech Republic Government Regulation 330/2023 Coll.

Substance name (component)	Type	Value
pentane (CAS: 109-66-0)	PEL	3000 mg/m ³
	PEL	1000 ppm
	NPK-P	1500 ppm
	NPK-P	4500 mg/m ³
coppera (CAS: 7440-50-8)	PEL	1 mg/m ³
	NPK-P	2 mg/m ³
	PEL	0,1 mg/m ³
	NPK-P	0,2 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

8.2. Exposure controls

Ensure adequate ventilation, or workspace extraction. In case of exceeding the NPK-P, use suitable respiratory protection. Avoid contact with skin and eyes, do not inhale aerosol. Observe hygiene measures when working with chemicals. Do not eat, drink or smoke while working. 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

Not necessary. Take off contaminated clothing and wash before reuse. Wear protective gloves in case of prolonged or repeated exposure. When choosing, follow the manufacturer's recommendations, the material must be impermeable and resistant to the components of the mixture. Replace damaged gloves.

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Respiratory protection

Not necessary. In case of insufficient ventilation or prolonged exposure, use a mask with a filter against organic vapors and aerosols. Wear self-contained breathing apparatus if limits are exceeded or under heavy load.

Thermal hazard

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

Environmental exposure controls

Observe the usual environmental precautions. Avoid leakage into sewers, underground and surface water and soil.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	According to the designation.
Odour	characteristic
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	data not available
Flammability	Flammable Class I.
Lower and upper explosion limit	
bottom	1.4 %
upper	10.9 %
Flash point	<0 °C
Auto-ignition temperature	determination is not technically possible
Decomposition temperature	data not available
pH	data not available
Kinematic viscosity	data not available
Solubility in water	slightly miscible to immiscible
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	3500 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

VOC content: 473,8 g/l (70,5 %)
Content of organic solvents: <70,5 %
Content of non-volatile components: 18,9%
Density: 672 kg / m³ / 20 °C

SECTION 10: Stability and reactivity

10.1. Reactivity

Data not available.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

The product is stable under normal conditions.

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10.4. Conditions to avoid

Temperatures above 50 ° C, contact with open flames, possible sources of ignition and hot surfaces, sparks, direct sunlight, accumulation of static electricity. Avoid formation of concentrations within the limits of explosion. Vapors are heavier than air and may accumulate in lower positions and may spread over long distances. When mixed with air, they may form an explosive mixture. Danger of re-ignition. There is a risk of the pressure vessel exploding at higher temperatures.

10.5. Incompatible materials

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

10.6. Hazardous decomposition products

Under normal conditions, the mixture is not decomposed. Incomplete combustion or thermal decomposition produces toxic products of combustion (COx, NOx, 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	

isobutane					
Route of exposure	Parameter	Value	Exposure time	Species	Sex
Inhalation	LC ₅₀	658 mg/l	4 hours	Rat (Rattus norvegicus)	

pentane					
Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD ₅₀	16000 mg/kg		Rat (Rattus norvegicus)	
Inhalation	LD ₅₀	>100 mg/m ³	4 hours	Rat (Rattus norvegicus)	
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 (Rattus norvegicus)	

Skin corrosion/irritation

Based on available data the classification criteria are not met.

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.

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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 to specific target organs after a single exposure, category 3. May 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

The mixture is marketed in aerosol packaging, the criteria for classification are not met.

11.2. Information on other hazards

Inhalation may result in mild irritation of mucous membranes and respiratory tract. Inhalation of vapors causes headaches, dizziness, malaise, fatigue and general weakness. Inhalation of vapors in excess of NPK-P may cause acute inhalation poisoning depending on concentration and time of exposure. Infiltration of the respiratory tract with ingestion or aspiration of vomit with subsequent vomiting may cause bronchopneumonia or pulmonary edema. Frequent or prolonged skin contact may cause dryness, cracking of the skin and dermatitis. Ingestion of fluid may cause gastrointestinal irritation, abdominal pain and nausea. It does not have an adverse effect on human health if the instructions for use are followed.

SECTION 12: Ecological information

12.1. Toxicity

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

Acute toxicity

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

12.2. Persistence and degradability

Unspecified.

12.3. Bioaccumulative potential

Not determined, bioaccumulation is unlikely.

12.4. Mobility in soil

Not determined.

12.5. Results of PBT and vPvB assessment

Has not been done. 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

not available

12.7. Other adverse effects

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The mixture is classified as toxic to aquatic organisms and must not be allowed to enter soil, ground or surface water or drains. Observe the usual environmental precautions.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of as hazardous waste, hand over for disposal to an authorized person (disposal eg in a hazardous waste incinerator). Dispose of mixture and packaging residues in accordance with local regulations for waste disposal. Do not pierce or dispose of emptied containers in a fire.

Waste management legislation

Waste Act No. 185/2001 Coll. as amended. Act No. 477/2001 Coll., On packaging, as amended.

Waste type code

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

Always carry closed containers in upright position. Transport in packages that match the properties of the mixture. Observe the prescribed marking for cargo.

Hazard identification No.

UN number

Classification code

Safety signs



5F

2.1



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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 ammended. 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.

H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
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.
P261	Avoid breathing vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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
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

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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
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
Eye Dam.	Serious eye damage
Flam. Gas	Flammable gas
Flam. Liq.	Flammable liquid
Press. Gas	Gases under pressure
Skin Irrit.	Skin irritation
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

Manufacturer data and toxicological databases.

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

Revision according to Commission Regulations (EU) 878/2020 and 849/2021.

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.