

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) .

NOVALON 2000

Creation date	22nd October 2003	Version	19.0
Revision date	31st October 2022		

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

- 1.1. Product identifier** NOVALON 2000
Substance / mixture mixture
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
Mixture's intended use
Concentrated alkaline cleaner.
PC-TEC-22 – Mixtures of surfactants for industrial use.
The use descriptors
PW Widespread use by professional workers
Mixture uses advised against
Not specified. It is recommended to be used only for specified uses. Other uses may expose users to unforeseeable risks.
- 1.3. Details of the supplier of the safety data sheet**
Distributor
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
- 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.

Eye Dam. 1, H318

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

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Most serious adverse physico-chemical effects

The mixture is strongly basic, it can react violently with acids and oxidizing agents. Avoid contact with open flames and heat sources. Imperfect thermal decomposition at high temperatures can release hazardous gases. Avoid inhalation.

Most serious adverse effects on human health and the environment

Eye contact may cause severe irritation or damage to the eyes (redness, burning, tearing, conjunctivitis and corneal damage). Abdominal pain and nausea and cramps may occur if the mixture is ingested. The mixture is strongly alkaline, contact with the skin may cause skin irritation or degreasing. Secure against confusion with beverages and food. The mixture is not classified as dangerous for aquatic organisms. A large leakage of concentrated mixture can change the pH of the environment. Do not allow to enter drains, soil, ground or surface water. Follow the instructions for use to avoid risks to humans and the environment. The full text of the classifications and H-phrases is displayed in section 16 of this safety data sheet.

2.2. Label elements

Hazard pictogram



Signal word

Danger

Hazard statements

H318 Causes serious eye damage.

Precautionary statements

P264 Wash hands and exposed parts of the body thoroughly after handling.
P280 Wear protective gloves/protective clothing.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a doctor.
P501 Dispose of contents/container to in accordance with local regulations.

Supplemental information

EUH208 Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.

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.

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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: 607-428-00-2 CAS: 64-02-8 EC: 200-573-9 Registration number: 01-2119486762-27-0005	TETRASODIUM EDTA	5-8	Acute Tox. 4, H302+H332 Eye Dam. 1, H318 STOT RE 2, H373 (inhalation) Specific concentration limit: Eye Dam. 1, H318: C ≥ 3 % Eye Irrit. 2, H319: 1 % ≤ C < 3 % Skin Irrit. 2, H315: C ≥ 10 % STOT RE 2, H373: C ≥ 10 %	
CAS: 106232-83-1 EC: 932-186-2	Alcohols, C12-15-branched and linear, ethoxylated (> = 6 - <15 EO)	2-5	Acute Tox. 4, H302 Eye Dam. 1, H318 Aquatic Chronic 3, H412 Specific concentration limit: Eye Dam. 1, H318: C ≥ 3 % Eye Irrit. 2, H319: 1 % ≤ C < 3 % Aquatic Chronic 3, H412: C ≥ 25 %	
CAS: 106232-83-1 EC: 932-186-2	Alcohols, C12-15-branched and linear, ethoxylated (> 2.5 EO)	1-2	Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 3, H412 Specific concentration limit: Eye Dam. 1, H318: C ≥ 3 % Eye Irrit. 2, H319: 1 % ≤ C < 3 % Aquatic Chronic 3, H412: C ≥ 25 %	
Index: 613-088-00-6 CAS: 2634-33-5 EC: 220-120-9	1,2-benzisothiazol-3(2H)-one	<0,01	Acute Tox. 4, H302 Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=1) Specific concentration limit: Skin Sens. 1, H317: C ≥ 0.05 %	

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 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 inhaled

Interrupt exposure, breathe fresh air. Seek medical attention if breathing difficulties or respiratory tract irritation occur.

If on skin

Remove clothing if contaminated clothing. Wash the affected area thoroughly with lukewarm water. Seek medical attention if irritation symptoms occur.

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If in eyes

Rinse eyes and surroundings. 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

Do not induce vomiting. In case of spontaneous vomiting, avoid inhaling vomit. Rinse mouth thoroughly with water, drink a glass of water. Seek medical attention. Submit packaging, label or this safety data sheet. In case of a symptom-free person, contact the Toxicological Information Center to decide on the need for medical treatment, provide information on the substances or composition of the product from the original packaging or from the safety data sheet of the mixture.

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

If inhaled

Inhalation of splashes or mists may cause severe respiratory irritation, cough, burning of the respiratory system.

If on skin

The mixture is strongly alkaline, skin contact may cause skin irritation or degreasing.

If in eyes

May cause severe irritation to eye damage (redness, burning in the eyes, tearing, inflammation, corneal damage).

If swallowed

Ingestion may cause abdominal pain and nausea, irritation, or damage to the digestive tract.

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

Immediate medical attention is not required during normal use of the mixture and adherence to the instructions for use. Immediate medical attention is required in case of ingestion and in case of eye contact. Seek medical attention if symptoms persist or if respiratory or skin irritation occurs.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Mixture is not flammable, fire extinguisher adapted to fire in the area.

Unsuitable extinguishing media

Not defined.

5.2. Special hazards arising from the substance or mixture

Thermal decomposition at high temperatures or fire may produce hazardous decomposition products. Do not inhale thermal decomposition products.

5.3. Advice for firefighters

Protective equipment adapt the nature of the fire. 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, secure and insulate spill area. Avoid contact with skin and eyes - use personal protective equipment. Do not inhale the spray mixture. Secure against confusion with beverages and food. Avoid contact with heat sources and open flames.

6.2. Environmental precautions

Provide space for leakage, collect escaping mixture. Do not allow to enter drains, soil, surface water or groundwater by creating catchment lagoons. In case of a large liquid leak, monitor the concentrations of NPK resp. TLV and inform the relevant authorities and administrators of the flow or sewer.

6.3. Methods and material for containment and cleaning up

Stop leak. In case of a large liquid leak, drain the mixture. Aerosol evaporates, ensure adequate ventilation. In case of minor leakage of liquid fraction, cover with non-flammable sorbent (sand, diatomaceous earth, earth, universal sorbent, etc.), place used sorbent in a closable waste container, label and dispose of 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

Always read the operating instructions in detail before using. Protect eyes and skin, do not inhale spray mixture, use personal protective equipment according to sec. 8. Secure against confusion with beverages. Avoid contact with open flames and heat sources. The work area should be equipped with a source of drinking water to provide first aid. Observe the applicable health and safety legislation. 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. Avoid release to the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store tightly closed with the lid facing up in the original packaging. Store away from food, drink and animal feeding stuffs. Store away from strong acids and oxidizing agents. The warehouse should be equipped with a source of drinking water to provide first aid. Observe regulations for storage of water endangering substances.

Storage class

12 - Other non-combustible liquids

Storage temperature

min 5 °C, max 30 °C

7.3. Specific end use(s)

It is not.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The mixture does not contain any constituents of national exposure limits specified in Annex 2, Government Decree 361/2007 Coll., As amended or European Union for Work Environment.

DNEL

TETRASODIUM EDTA

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	1.5 mg/m ³	Chronic effects systemic		
Consumers	Inhalation	0.6 mg/m ³	Chronic effects systemic		
Consumers	Oral	25 mg/kg/24h	Chronic effects systemic		
Workers	Inhalation	3 mg/m ³	Acute effects local		

PNEC

TETRASODIUM EDTA

Route of exposure	Value	Value determination	Source
Microorganisms in sewage treatment	43 mg/l		
Freshwater environment	2.2 mg/l		
Marine water	0.22 mg/l		
Soil (agricultural)	0.72 ml/kg		
Water (intermittent release)	1.2 mg/l		

8.2. Exposure controls

Ensure adequate ventilation or exhaustion of the work area. In case of exceeding the WEL, use suitable respiratory protection. Avoid contact with skin and eyes, do not breathe fumes. Follow hygienic precautions for handling chemicals. Do not eat, drink or smoke while working. Wash your hands with lukewarm water and soap before taking a break, eating and after work. Personal protective equipment should be adapted to the type of work.

Eye/face protection

Protective goggles or face shield (based on the nature of the work performed).

Skin protection

Protective work clothing. Wash the affected skin, rub off clothing, wash before using again. Protective gloves (material e.g.: nitrile rubber > 0.11 mm, permeability > 480 min., butyl rubber > 0.7 mm, permeability > 480 min.). When choosing, follow the manufacturer's recommendations, the material must be impermeable and resistant to the components of the mixture. Test at a specific workplace before first use. Replace damaged gloves.

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Respiratory protection

Use a mask with filter when the exposition limits of the substances are exceeded or at the place with insufficient ventilation.

Thermal hazard

Not Specified. Avoid heating the mixture and exposure to elevated temperatures.

Environmental exposure controls

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

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	yellowish
Odour	characteristic
Melting point/freezing point	0 °C
Boiling point or initial boiling point and boiling range	100 °C
Flammability	The product is non-flammable.
Lower and upper explosion limit	data not available
Flash point	data not available
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	11-12 (5% solution at 20 °C)
Kinematic viscosity	data not available
Solubility in water	infinitely miscible
Solubility in fats	not determined
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	23 hPa at 20 °C
Density and/or relative density	
Density	data not available
Relative density	1,06 g / cm ³ at 20 °C
Relative vapour density	data not available
Particle characteristics	data not available

9.2. Other information

Appearance	liquid
Explosive properties	The product does not have explosive properties.

SECTION 10: Stability and reactivity**10.1. Reactivity**

The mixture is strongly alkaline. The mixture does not show any dangerous reactions when the instructions for use are followed.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

Contact with acids or oxidizing agents may cause an exothermic reaction.

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10.4. Conditions to avoid

Temperatures below 5 ° C and above 30 ° C, contact with heat sources, sun, sparks and open flame. Frost.

10.5. Incompatible materials

Strong oxidizing agents, acids.

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.

Alcohols, C12-15-branched and linear, ethoxylated (> = 6 - <15 EO)

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD ₅₀	300-2000 mg/kg		Rat	
Dermal	LD ₅₀	>2000 mg/kg		Rabbit	
Inhalation	LC ₅₀	>1.6 mg/l	6 hours	Rat	

Alcohols, C12-15-branched and linear, ethoxylated (> 2.5 EO)

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD ₅₀	300-2000 mg/kg		Rat	
Dermal	LD ₅₀	>2000 mg/kg		Rabbit	
Inhalation	LC ₅₀	>1.6 mg/l	6 hours	Rat	

TETRASODIUM EDTA

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD ₅₀	1780-2000 mg/kg		Rat (Rattus norvegicus)	
Intraperitoneally	LD ₅₀	330 mg/kg		Rabbit	
Inhalation	LC ₅₀	30 mg/l	4 hours	Rat	

Skin corrosion/irritation

Based on available data the classification criteria are not met.

Serious eye damage/irritation

Mixture is classified as damaging eyes, category 1. Contact with concentrated mixture may cause eye damage.

Respiratory or skin sensitisation

The mixture contains a component classified as skin sensitizing in an amount below the specified concentration limit. May cause an allergic reaction.

Germ cell mutagenicity

Based on available data the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met. The mixture contains an ingredient classified as Carc. 2 in an amount below the specified concentration limit.

Reproductive toxicity

Based on available data the classification criteria are not met.

Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

Toxicity for specific target organ - repeated exposure

Based on available data, the classification criteria are not met. Due to the nature of the mixture, avoid repeated exposure.

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Aspiration hazard

Based on available data the classification criteria are not met.

More information

Eye contact may cause severe irritation or damage to the eyes (redness, burning, tearing, conjunctivitis and corneal damage). Abdominal pain and nausea and cramps may occur if the mixture is ingested. The mixture is strongly alkaline, contact with the skin may cause skin irritation or degreasing. Inhalation of the spray mixture may cause mild respiratory irritation.

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

Acute toxicity

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

Alcohols, C12-15-branched and linear, ethoxylated (> 6 - <15 EO)

Parameter	Value	Exposure time	Species	Environment
LC ₅₀	1-10 mg/l	96 hours	Fish (Cyprinus carpio)	
EC ₅₀	1-10 mg/l	48 hours	Invertebrates (Daphnia magna)	
EC ₅₀	1-100 mg/l	72 hours	Algae (Desmodesmus subspicatus)	

Alcohols, C12-15-branched and linear, ethoxylated (> 2.5 EO)

Parameter	Value	Exposure time	Species	Environment
LC ₅₀	1-10 mg/l	96 hours	Fish (Cyprinus carpio)	
EC ₅₀	1-10 mg/l	48 hours	Invertebrates (Daphnia magna)	
EC ₅₀	1-100 mg/l	72 hours	Algae (Desmodesmus subspicatus)	

TETRASODIUM EDTA

Parameter	Value	Exposure time	Species	Environment
LC ₅₀	41-2070 mg/l	96 hours	Fish (Oncorhynchus mykiss)	
EC ₅₀	>100 mg/l	48 hours	Invertebrates (Daphnia magna)	
EC ₅₀	≥100 mg/l	72 hours	Algae (Selenastrum capricornutum)	

12.2. Persistence and degradability

The surfactants contained show biodegradability in accordance with the requirements laid down in Regulation (EC) No 648/2004 on detergents, as amended.

12.3. Bioaccumulative potential

Not determined, bioaccumulation is unlikely.

12.4. Mobility in soil

Not determined, the mixture is miscible with water.

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

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Avoid leakage into the soil, underground or surface water or sewers. Leakage of large quantities can change the pH of the aquatic environment.

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

20 01 29 detergents containing hazardous substances *

Packaging waste type code

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

15 01 02 plastic packaging

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

SECTION 14: Transport information**14.1. UN number or ID number**

not subject to transport regulations

14.2. UN proper shipping name

not relevant

14.3. Transport hazard class(es)

not relevant

14.4. Packing group

not relevant

14.5. Environmental hazards

Not determined.

14.6. Special precautions for user

Not determined. Transport in packages corresponding to the properties of the mixture. Observe the prescribed load markings. The mixture is not subject to transport regulation according to ADR, RID, ICAI / IATA, IMDG.

14.7. Maritime transport in bulk according to IMO instruments

Not determined.

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

No. 350/2011 Coll., on Chemical Substances and Chemical Preparations as amended (the Chemical Act). Labor Code No. 262/2006, as amended. The Act No. 258/2000 Coll., on Protection of Public Health as amended. Decree laying down the hygienic limits of chemical, physical and biological indicators for indoor living rooms of some buildings No. 6/2003 Coll. Government Regulation laying down the conditions for the protection of health at work No. 9/2013 Coll. as amended. The Act No. 201/2012 Coll., on the Protection of Atmosphere – Clean Air Act as amended. Decree No. 415/2012 Coll., On the permissible level of pollution and its detection and on the implementation of certain other provisions of the Air Protection Act. The Act No. 185/2001 Coll., on Waste and the Amendment of Some Other Acts as amended. Act No. 477/2001 Coll., On Packaging, as amended. Water Act No. 150/2010 Coll., Amending Act No. 254/2001 Coll., On Water and on Amendments to Certain Acts (Water Act), as amended, and Act No. 200/1990 Coll., On offenses, as amended. Act No. 133/1985 Coll., As amended. Decree on fire prevention No. 221/2014 Coll., As amended.

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Additional information in accordance with Regulation (EC) no. 648/2004 on detergents, as amended

5-<15 % non-ionic surfactants, 5-<15 % EDTA and salts thereof

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.

SECTION 16: Other information

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

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H373	May cause damage to organs through prolonged or repeated exposure if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.
H302+H332	Harmful if swallowed or if inhaled.

Guidelines for safe handling used in the safety data sheet

P264	Wash hands and exposed parts of the body thoroughly after handling.
P280	Wear protective gloves/protective clothing.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a doctor.
P501	Dispose of contents/container to in accordance with local regulations.

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

EUH208	Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.
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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

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IMO	International Maritime Organization
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC ₅₀	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD ₅₀	Lethal dose of a substance in which it can be expected death of 50% of the population
log K _{ow}	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
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
Acute Tox.	Acute toxicity
Aquatic Acute	Hazardous to the aquatic environment
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Eye Dam.	Serious eye damage
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization
STOT RE	Specific target organ toxicity - repeated 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

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)

Modification of the composition of the mixture by the supplier, adaptation of the SDS format to the updated Annex II of the REACH Regulation.

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.