

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) .

DRAVEX

Creation date	02nd April 2010	Version	5
Revision date	21st December 2022		

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

1.1. Product identifier DRAVEX
Substance / mixture mixture

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

Waste cleaner

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.

Met. Corr. 1, H290
Skin Corr. 1A, H314

Most serious adverse physico-chemical effects

Reacts violently with acids and oxidizing agents, some metals. May corrode metals. Thermal decomposition may release dangerous gases.

Most serious adverse effects on human health and the environment

The mixture is strongly corrosive. Even in diluted form, it can cause severe irritation or even damage to the eyes (redness, burning in the eyes, tearing, inflammation, corneal damage, in extreme cases blindness) and skin (redness, itching, irritation, chemical burns). Inhalation of dust or sprayed diluted mixture can cause severe irritation to burns of the respiratory tract, coughing, burning of the respiratory system. Ingestion may cause irritation or even damage to the digestive tract, cauterization of the esophagus. Most serious adverse effects on the environment: Leakage of even a diluted mixture may change the pH of the aquatic environment. The mixture must not get into the soil, underground or surface water or sewage system. Follow the instructions for use to avoid risks to humans and the environment.

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) .

DRAVEX

Creation date	02nd April 2010	Version	5
Revision date	21st December 2022		

2.2. Label elements

Hazard pictogram



Signal word

Danger

Hazard statements

H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.

Precautionary statements

P260 Do not breathe dust.
P280 Wear protective gloves/protective clothing/eye protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
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 POISON CENTER or doctor.
P405 Store locked up.

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: 011-002-00-6 CAS: 1310-73-2 EC: 215-185-5	sodium hydroxide	97-99,5	Skin Corr. 1A, H314 Specific concentration limit: Skin Corr. 1B, H314: 2 % ≤ C < 5 % Skin Corr. 1A, H314: C ≥ 5 % Eye Irrit. 2, H319: 0.5 % ≤ C < 2 % Skin Irrit. 2, H315: 0.5 % ≤ C < 2 %	1

Notes

1 A substance for which exposure limits are set.

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

DRAVEX

Creation date	02nd April 2010	Version	5
Revision date	21st December 2022		

SECTION 4: First aid measures

4.1. Description of first aid measures

In the event of health problems or in case of doubt, consult a doctor and provide him with the information from this safety data sheet. In case of skin burns, rinse with water and cover with a sterile bandage. In case of life-threatening conditions, perform resuscitation. Place the unconscious person in a stable position and do not give anything by mouth. If necessary (respiratory arrest or irregular breathing), perform artificial respiration. Avoid catching cold. Do not induce vomiting. In case of spontaneous vomiting, prevent inhalation of vomitus.

If inhaled

Leave the contaminated area, interrupt the exposure, rinse the oral cavity with water, inhale the water mist, breathe fresh air. Seek medical attention if respiratory irritation or mucosal irritation occurs.

If on skin

Remove affected clothing. Remove obstacles (rings, bracelets, watches, etc.) at the point of contact with the skin. Wash thoroughly with water if the skin has not been damaged with soap and treat with a regenerating cream. If signs of irritation or irritation occur, rinse with water, cover with a sterile dressing, and seek medical attention immediately.

If in eyes

Rinse the eyes and their surroundings. If the victim wears contact lenses, remove them a few minutes after starting the rinse. Forcefully open eyes should be flushed from the inner corner of the eye towards the outer with a large amount of clean lukewarm water, especially the space under the eyelids. Avoid contact with the uncontaminated eye. Rinse for at least 15 min., seek medical treatment. Continue rinsing during transport to the doctor. Do not attempt to neutralize.

If swallowed

Do not induce vomiting, rinse mouth with water. Drink 2-3 glasses of cold water (if the victim is conscious and not in pain). Do not serve food or attempt neutralization. Seek medical attention immediately and present this safety data sheet.

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

If inhaled

Inhalation of dust or sprayed diluted mixture can cause severe irritation to burns of the respiratory tract, coughing, burning of the respiratory system.

If on skin

The mixture is strongly corrosive. Even in a diluted form, it can cause severe irritation or damage to the skin (redness, itching, disruption, chemical burns, poorly healing wounds).

If in eyes

The mixture is strongly corrosive. Even in diluted form, it can cause severe irritation and even damage to the eyes (redness, burning in the eyes, tearing, inflammation, damage to the cornea, in extreme cases, blindness).

If swallowed

Ingestion may cause irritation or damage to the digestive tract, cauterization of the esophagus.

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

With normal use of the mixture, immediate medical attention is not necessary. It is required only if the symptoms reach a certain degree, according to the data in paragraphs 4.1 and 4.2; is symptomatic. Immediate medical attention is required for ingestion, eye contact and skin irritation.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Mixture is not flammable, fire extinguisher adapted to fire in the area. Multipurpose powders, CO2, foam, water mist, sand.

Unsuitable extinguishing media

Full stream of water.

5.2. Special hazards arising from the substance or mixture

Thermal decomposition may produce dangerous corrosive or toxic decomposition products. Do not inhale decomposition products.

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) .

DRAVEX

Creation date	02nd April 2010	Version	5
Revision date	21st December 2022		

5.3. Advice for firefighters

Put out the fire downwind. Adapt protective equipment to the nature of the fire (self-contained breathing apparatus and non-flammable emergency chemical suit, etc.). Contaminated water after extinguishing can have a very high pH. Combustion residues and water after intervention should be disposed of as hazardous waste.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Prevent the entry of unauthorized persons, secure and isolate the escape area. Provide adequate ventilation, do not breathe dust or diluted diluted mixture or mist. Avoid contact with skin and eyes - use personal protective equipment. Notify the fire department and the police about the accident.

6.2. Environmental precautions

Secure the escape area, prevent leakage into sewers, soil, surface and ground water. In the event of a large liquid leak, monitor NPK or TLV concentrations and inform the relevant state authorities and stream or sewer managers.

6.3. Methods and material for containment and cleaning up

Collect the concentrated mixture mechanically, using personal protective equipment. Avoid inhaling dust. In the case of a large leak of the diluted mixture, pump it out, in the case of a small leak, cover with a suitable sorbent (universal sorbent, sand, diatomaceous earth, soil, sawdust, etc.), store the used sorbent in a closable waste container and dispose of it as hazardous waste. A small amount after significant dilution and neutralization (hydrochloric acid, acetic acid, sulfuric acid, etc.) can be discharged into the sewer. Wash the contaminated area with water.

6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Ensure sufficient ventilation of the work area, or dust extraction. Protect eyes and skin, do not inhale dust, diluted sprayed mixture, use personal protective equipment according to sec. 8. Keep the work area clean and clear. The work area should be equipped with drinking water sources for providing first aid.

Follow the instructions in the user manual. Observe the applicable health and safety legislation. Observe the principles of hygiene when working with chemicals, do not eat, drink or smoke while working. Wash your hands with warm soapy water before breaks, meals and after work. Prevent confusion with food and beverages.

7.2. Conditions for safe storage, including any incompatibilities

Store tightly closed with the lid up in the original packaging. Store out of reach of children. Store away from acids and oxidizing agents. Follow the directions on the label. Store away from food, drink and feed. Ensure against possible confusion with food and drinks. The warehouse should be equipped with an alkali-resistant floor and a potable water source. Unsuitable packaging materials: aluminum, zinc, tin.

Content	Packaging type	Material of package
1 kg	Container with a lid	PET

7.3. Specific end use(s)

Dilution according to degree of pollution - see technical sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Czech Republic

Government Regulation 330/2023 Coll.

Substance name (component)	Type	Value	Note
sodium hydroxide (CAS: 1310-73-2)	PEL	1 mg/m ³	irritating to mucous membranes (eyes, respiratory system) and skin
	NPK-P	2 mg/m ³	

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) .

DRAVEX

Creation date	02nd April 2010	Version	5
Revision date	21st December 2022		

Czech Republic

Government Regulation 41/2020 Coll.

Substance name (component)	Type	Value	Note
sodium hydroxide (CAS: 1310-73-2)	PEL	1 mg/m ³	irritating to mucous membranes (eyes, respiratory system) and skin
	NPK-P	2 mg/m ³	

DNEL

sodium hydroxide					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	1 mg/m ³	Chronic effects systemic		

8.2. Exposure controls

Ensure sufficient ventilation, or extraction of the working space. In the event of a poorly ventilated area or the risk of inhaling dust, use appropriate respiratory protection. Avoid contact with skin and eyes, do not inhale dust, diluted diluted mixture or mist. Observe hygienic measures for working with caustics and chemicals. The work area should be equipped with a source of drinking water. Do not eat, drink or smoke while working. Wash your hands with lukewarm water and soap before breaks, meals and after work. Adapt personal protective equipment to the nature of the work.

Eye/face protection

Tight protective goggles secured against dust

Skin protection

Protective work twill clothing, work shoes, or rubber apron; remove contaminated clothing, wash before further use. Protective gloves (e.g.: material nitrile, thickness 0.11 mm, penetration time > 480 min. or natural latex) - 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. For accident disposal - fluoro rubber gloves.

Respiratory protection

Respirator. In case of long-term exposure, a mask with a dust filter.

Thermal hazard

Undetermined. 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	solid
Colour	White with the addition of colored balls
Odour	without fragrance
Melting point/freezing point	321.8 °C
Boiling point or initial boiling point and boiling range	1388 °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

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DRAVEX

Creation date	02nd April 2010	Version	5
Revision date	21st December 2022		

pH	14 (undiluted)
Kinematic viscosity	data not available
Solubility in water	infinitely soluble (1.090 g/l with the generation of heat)
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available
Density and/or relative density	data not available
Relative vapour density	data not available
Particle characteristics	data not available

9.2. Other information

Density (at 20 °C): 2130 kg/m³

SECTION 10: Stability and reactivity

10.1. Reactivity

The mixture is strongly alkaline. Hygroscopic substance. It does not show dangerous reactions under normal conditions. When diluting, slowly add the base to the water, not the other way around.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

The mixture is very reactive when in contact with acids and oxidizing agents, danger of a violent reaction. Reacts with light metals to form hydrogen. In contact with water, a dangerous exothermic reaction may occur.

10.4. Conditions to avoid

Air humidity, heating.

10.5. Incompatible materials

Acids, oxidizing agents, nitriles, light metals (aluminum, magnesium, tin, zinc, etc.), alkaline earth metals in powder form, ammonia compounds, flammables.

10.6. Hazardous decomposition products

It corrodes metals to release hydrogen. Danger of explosion. It reacts violently with acids to form a dangerous exothermic reaction, there is a risk of heat generation and splashing of the reaction mixture. Thermal decomposition at high temperatures can produce dangerous decomposition products.

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.

sodium hydroxide					
Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD ₅₀	140-340 mg/kg		Rat	
Dermal	LD ₅₀	1350 mg/kg		Rabbit	

Skin corrosion/irritation

The mixture is classified as corrosive, category 1A. Even in a diluted form, it can have strong irritating or caustic effects on the skin.

Serious eye damage/irritation

The mixture is classified as corrosive, category 1A. Even diluted, it has strong irritating and even caustic effects on the eyes. Contact with a concentrated mixture can cause eye damage and loss of vision.

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DRAVEX

Creation date	02nd April 2010	Version	5
Revision date	21st December 2022		

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

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.

Aspiration hazard

Based on the available data, the classification criteria are not met. Breathing in dust or sprayed diluted mixture can cause irritation or even burns of the respiratory tract and mucous membranes.

11.2. Information on other hazards

It does not contain substances causing disruption of the endocrine system. The mixture is strongly corrosive. Even in diluted form, it can cause severe irritation or even damage to the eyes (redness, burning in the eyes, tearing, inflammation, corneal damage, in extreme cases blindness) and skin (redness, itching, disruption, chemical burns, poorly healing wounds). Inhalation of dust or sprayed diluted mixture can cause severe irritation to burns of the respiratory tract, coughing, burning of the respiratory system. Ingestion may cause irritation or damage to the digestive tract, cauterization of the esophagus.

SECTION 12: Ecological information

12.1. Toxicity

not available

Acute toxicity

sodium hydroxide				
Parameter	Value	Exposure time	Species	Environment
LC ₅₀	45.4 mg/l	96 hours	Fish (<i>Oncorhynchus mykiss</i>)	
EC ₅₀	76 mg/l	24 hours	Invertebrates (<i>Daphnia magna</i>)	

More information

The ecotoxic effects of the mixture were not assessed. Do not allow liquid to enter drains or surface water.

12.2. Persistence and degradability

It does not apply to inorganic substances.

12.3. Bioaccumulative potential

Not determined, bioaccumulation is unlikely.

12.4. Mobility in soil

The mixture is soluble in water.

12.5. Results of PBT and vPvB assessment

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

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DRAVEX

Creation date	02nd April 2010	Version	5
Revision date	21st December 2022		

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 may change the pH in the aquatic environment. It must not get into the soil, underground or surface water or sewage system. Observe the usual environmental protection measures.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of as hazardous waste. Hand over to an authorized person for disposal (neutralization). Do not dispose together with municipal waste. Prevent uncontrolled discharge into drains. Very small quantities can be discharged into the sewer after significant dilution and neutralization. Dispose of mixture and packaging residues in accordance with local waste disposal regulations.

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

06 02 04* sodium and potassium hydroxide
20 01 15* Alkalines

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

UN 1823

14.2. UN proper shipping name

SODIUM HYDROXIDE, SOLID

14.3. Transport hazard class(es)

8 Corrosive substances

14.4. Packing group

II

14.5. Environmental hazards

No.

14.6. Special precautions for user

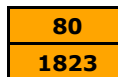
Transport in packages that match the properties of the mixture. Observe the prescribed marking for cargo.

14.7. Maritime transport in bulk according to IMO instruments

not relevant

Additional information

Hazard identification No.



UN number

Classification code

C6

Safety signs

8



Tunnel restriction code

(E)

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) .

DRAVEX

Creation date	02nd April 2010	Version	5
Revision date	21st December 2022		

Air transport - ICAO/IATA

Packaging instructions passenger	859
Cargo packaging instructions	863

Marine transport - IMDG

EmS (emergency plan)	F-A, S-B
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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.

SECTION 16: Other information

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

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.

Guidelines for safe handling used in the safety data sheet

P260	Do not breathe dust.
P280	Wear protective gloves/protective clothing/eye protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
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 POISON CENTER or doctor.
P405	Store locked up.

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

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) .

DRAVEX

Creation date	02nd April 2010	Version	5
Revision date	21st December 2022		

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
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
Met. Corr.	Corrosive to metals
Skin Corr.	Skin corrosion

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

not available

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)

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.