

SAFETY DATA SHEET

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


LORITO Beckensteine-Toilet Pellets Pine

Creation date 28th February 2025
Revision date Version 1.0

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

- 1.1. Product identifier**
Substance / mixture LORITO Beckensteine-Toilet Pellets Pine
mixture
Number 09262
UFI PA8P-92TU-A002-4P6H
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
Mixture's intended use
Detergent and deodorant that is placed in urinals. It is used to deodorize toilets, prevents the formation of deposits.
Main intended use
PC-CLN-11.3 Multi-flush products for toilets
The use descriptors
C Consumer use
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 OTTO OEHME GmbH
Address Industriestraße 20, D 90584 ALLESBERG
Germany
Phone +49(0)9176/9805-0
E-mail info@oehme-lorito.de
Web address www.oehme-lorito.de
Competent person responsible for the safety data sheet
Name OTTO OEHME GmbH
E-mail info@oehme-lorito.de
- 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.
- Skin Irrit. 2, H315
Eye Dam. 1, H318
Aquatic Chronic 3, H412
- Most serious adverse physico-chemical effects**
none
- Most serious adverse effects on human health and the environment**
Causes serious eye damage. Causes skin irritation. Harmful to aquatic life with long lasting effects.
- 2.2. Label elements**
Hazard pictogram
- 
- Signal word**
Danger
- Hazardous substances**
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts
- Hazard statements**
H315 Causes skin irritation.
H318 Causes serious eye damage.
H412 Harmful to aquatic life with long lasting effects.

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Precautionary statements

P102 Keep out of reach of children.
P264 Wash hands thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/eye protection.
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 according to the instructions of the manufacturer or person authorized to dispose of waste.

Supplemental information

EUH208 Contains Cineole. May produce an allergic reaction.
15-<30 % anionic surfactants, 5-<15 % non-ionic surfactants, perfumes, colorant

2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended. Does not contain any PMT or vPvM components. Dust may form explosive mixture with air.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

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
CAS: 68411-30-3 EC: 270-115-0 Registration number: 01-2119489428-22	Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	<25	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412	
CAS: 657-84-1 EC: 211-522-5	Benzenesulfonic acid, 4-methyl-, sodium salt (1:1)	<4	Eye Irrit. 2, H319	
CAS: 90622-77-8 EC: 931-338-5 Registration number: 01-2119489413-33	Amides, C12-18 and C18-unsatd., N-(hydroxyethyl)	<3	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411	
CAS: 97489-15-1 EC: 307-055-2 Registration number: 01-2119489924-20	Sulfonic acids, C14-17-sec-alkane, sodium salts	<2	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412 Specific concentration limit: Eye Dam. 1, H318: C > 60 % Skin Irrit. 2, H315: C > 60 % Acute Tox. 4, H302: C > 60 % Eye Dam. 1, H318: 15 % < C ≤ 60 % Skin Irrit. 2, H315: 15 % < C ≤ 60 % Eye Irrit. 2, H319: 10 % < C ≤ 15 % Skin Irrit. 2, H315: 10 % < C ≤ 15 %	
CAS: 470-82-6 EC: 207-431-5 Registration number: 01-2119967772-24	Cineole (eucalyptol)	<1	Flam. Liq. 3, H226 Skin Sens. 1B, H317	

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

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SECTION 4: First aid measures

4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

If inhaled

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

If on skin

Take off contaminated clothing. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists.

If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. No neutralization should be performed in any case! Rinsing should be continued for 10-30 minutes from the inner to the outer eye corner to make sure that the other eye is not involved. Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible. Everyone must be referred for treatment even if affected only a little.

If swallowed

DO NOT INDUCE VOMITING - even the induced vomiting can cause complications as in case of detergents and other foaming substances.

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

If inhaled

Inhaling vapours can cause corrosion of the breathing system.

If on skin

Causes skin irritation.

If in eyes

Causes serious eye damage.

If swallowed

Corrosion of the digestion system can occur.

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

Symptomatic treatment.

More information

Not available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

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

Unsuitable extinguishing media

Water - full jet.

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Prevent contact with skin and eyes.

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6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

6.3. Methods and material for containment and cleaning up

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Prevent contact with skin and eyes. Wash hands and exposed parts of the body thoroughly after handling. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Avoid release to the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose.

Content	Packaging type	Material of package
1 kg and 4,5 kg	bucket	PP

The specific requirements or rules relating to the substance/mixture

The product is hygroscopic, it must not come into contact with water / moisture before use. Keep out of reach of children. Keep away from food, drink and animal feed.

7.3. Specific end use(s)

Detergent and deodorant that is placed in urinals. It is used to deodorize toilets, prevents the formation of deposits.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The mixture contains no substances for which occupational exposure limits are set.

DNEL

Amides, C12-18 and C18-unsatd., N-(hydroxyethyl)			
Workers / consumers	Route of exposure	Value	Effect
Workers	Inhalation	73.4 mg/m ³	Chronic effects systemic
Consumers	Inhalation	21.73 mg/m ³	Chronic effects systemic
Consumers	Dermal	2.5 mg/kg	Chronic effects systemic
Consumers	Oral	6.25 mg/kg	Chronic effects systemic

Benzenesulfonic acid, 4-methyl-, sodium salt (1:1)			
Workers / consumers	Route of exposure	Value	Effect
Workers	Inhalation	37.4 mg/m ³	Chronic effects systemic
Workers	Dermal	191 mg/kg	Chronic effects systemic
Workers	Dermal	0.096 mg/cm ²	Chronic effects local
Consumers	Inhalation	6.6 mg/m ³	Chronic effects systemic
Consumers	Dermal	68.1 mg/kg	Chronic effects systemic
Consumers	Dermal	0.048 mg/cm ²	Chronic effects local
Consumers	Oral	3.8 mg/kg	Chronic effects systemic

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Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts			
Workers / consumers	Route of exposure	Value	Effect
Workers	Dermal	85 mg/kg	Chronic effects systemic
Workers	Inhalation	6 mg/m ³	Chronic effects systemic
Consumers	Dermal	42.5 mg/kg	Chronic effects systemic
Consumers	Inhalation	1.5 mg/m ³	Chronic effects systemic
Consumers	Oral	0.425 mg/kg	Chronic effects systemic

Sulfonic acids, C14-17-sec-alkane, sodium salts			
Workers / consumers	Route of exposure	Value	Effect
Workers	Dermal	2.8 mg/cm ²	Acute effects local
Workers	Dermal	5 mg/kg	Chronic effects systemic
Workers	Inhalation	35 mg/m ³	Chronic effects systemic
Workers	Dermal	2.8 mg/cm ²	Chronic effects local

PNEC

Amides, C12-18 and C18-unsatd., N-(hydroxyethyl)	
Route of exposure	Value
Freshwater environment	0.007 mg/l
Seawater (intermittent release)	0.001 mg/l
Water (intermittent release)	30 µg/l
Microorganisms in sewage treatment	830 mg/l
Freshwater sediment	1.201 mg/kg
Sea sediments	0.12 mg/kg

Benzenesulfonic acid, 4-methyl-, sodium salt (1:1)	
Route of exposure	Value
Freshwater environment	0.1 mg/l
Marine water	0.01 mg/l
Water (intermittent release)	1 mg/l
Microorganisms in sewage treatment	100 mg/l
Freshwater sediment	0.372 mg/kg
Sea sediments	0.037 mg/kg
Soil (agricultural)	0.016 mg/kg

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	
Route of exposure	Value
Freshwater environment	0.24 mg/l
Marine water	0.0268 mg/l
Water (intermittent release)	0.0167 mg/l
Freshwater sediment	8.1 mg/kg
Sea sediments	6.8 mg/kg
Soil (agricultural)	35 mg/kg
Microorganisms in sewage treatment	3.43 mg/l

Sulfonic acids, C14-17-sec-alkane, sodium salts	
Route of exposure	Value
Freshwater environment	0.04 mg/l

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Sulfonic acids, C14-17-sec-alkane, sodium salts	
Route of exposure	Value
Marine water	0.004 mg/l
Water (intermittent release)	0.06 mg/l
Freshwater sediment	9.4 mg/kg
Sea sediments	0.94 mg/kg
Soil (agricultural)	9.4 mg/kg
Microorganisms in sewage treatment	600 mg/l

8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

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

Skin protection

Hand protection: Protective gloves resistant to the product. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Other protection: protective workwear. Contaminated skin should be washed thoroughly.

Respiratory protection

Mask with a filter in a poorly ventilated environment.

Thermal hazard

Not available.

Environmental exposure controls

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	solid
Colour	green
Odour	according to fragrance
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	data not available
Flammability	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	5-8 (1% solution)
Kinematic viscosity	data not available
Solubility in water	soluble
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

The product is hygroscopic. It has no oxidizing or explosive properties.

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SECTION 10: Stability and reactivity

10.1. Reactivity

When used in the standard way, there is not any dangerous reaction with other substances. The product is hygroscopic, it must not come into contact with moisture and liquids before use.

10.2. Chemical stability

The product is stable under normal conditions. The product is hygroscopic, it must not come into contact with moisture and liquids before use.

10.3. Possibility of hazardous reactions

Unknown.

10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost. The product is hygroscopic, it must not come into contact with moisture and liquids before use.

10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

SECTION 11: Toxicological information

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

No toxicological data is available for the mixture.

Acute toxicity

Based on available data the classification criteria are not met.

Benzenesulfonic acid, 4-methyl-, sodium salt (1:1)							
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination
Oral	LD ₅₀		7000 mg/kg				
Inhalation	LC ₅₀		6410 mg/m ³				
Dermal	LD ₅₀		2000 mg/kg				

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts							
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination
Dermal	LD ₅₀	OECD 402	>2000 mg/kg		Rat (Rattus norvegicus)		
Oral	LD ₅₀	OECD 401	1080 mg/kg		Rat (Rattus norvegicus)		

Sulfonic acids, C14-17-sec-alkane, sodium salts							
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination
Oral	LD ₅₀	OECD 401	500-2000 mg/kg		Rat (Rattus norvegicus)		
Dermal	LD ₅₀		>2000 mg/kg		Mouse	F	Expert opinion

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye damage.

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

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 available data the classification criteria are not met.

11.2. Information on other hazards

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.

Other information

not available

SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic life with long lasting effects.

Acute toxicity

Benzenesulfonic acid, 4-methyl-, sodium salt (1:1)					
Parameter	Method	Value	Exposure time	Species	Environment
LC ₅₀		>1000 mg/l	96 hours	Fish (Oncorhynchus mykiss)	
EC ₅₀		>1000 mg/l	48 hours	Daphnia (Daphnia magna)	

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts					
Parameter	Method	Value	Exposure time	Species	Environment
EC ₅₀	OECD 202	2.9 mg/l	48 hours	Daphnia (Daphnia magna)	
EC ₅₀		29 mg/l	96 hours	Algae (Selenastrum capricornutum)	
NOEC		0.63 mg/l	196 days	Fish (Oncorhynchus mykiss)	
NOEC		0.23 mg/l	72 days	Fish (Oncorhynchus mykiss)	
LC ₅₀		1.67 mg/l	96 hours	Fish (Oncorhynchus mykiss)	

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Chronic toxicity

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts					
Parameter	Method	Value	Exposure time	Species	Environment
NOEC	OECD 211	1.41 mg/l	21 days	Daphnia (Daphnia magna)	

12.2. Persistence and degradability

Surfactants are biodegradable according to the European Parliament and Council Regulation (EC) No. 648/2004 on detergents, as amended. The mixture is biodegradable.

Biodegradability

Benzenesulfonic acid, 4-methyl-, sodium salt (1:1)						
Parameter	Method	Value	Exposure time	Environment	Value determination	Result
	OECD 302B	96.6 %				

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts						
Parameter	Method	Value	Exposure time	Environment	Value determination	Result
	OECD 301D	79 %			Expert opinion	

12.3. Bioaccumulative potential

Not available.

12.4. Mobility in soil

The product is soluble and mobile in water and soil.

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

Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

Waste type code

16 03 05* organic wastes containing hazardous substances

20 01 29* detergents containing hazardous substances

Packaging waste type code

15 01 02 plastic packaging

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

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SECTION 14: Transport information

- 14.1. UN number or ID number**
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 relevant
- 14.6. Special precautions for user**
Reference in the Sections 4 to 8.
- 14.7. Maritime transport in bulk according to IMO instruments**
not relevant

Additional information

The product is hygroscopic, it must not come into contact with moisture and liquids before use.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents, as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN HAZARDOUS SUBSTANCES, MIXTURES, AND ITEMS

The mixture contains the following substances for which restrictions on the manufacture, placing on the market and use of certain hazardous areas are imposed substances, mixtures and articles referred to in Regulation 1907/2006/EC, Title VIII:

Benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts - Regulation 1907/2006/EC, Annex XVII, item 3

Amides, C12-18 and C18-unsatd., N-(hydroxyethyl) - Regulation 1907/2006/EC, Annex XVII, item 3

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out (mixture).

SECTION 16: Other information

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

EUH208	Contains Cineole. May produce an allergic reaction.
H226	Flammable liquid and vapour.
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.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Guidelines for safe handling used in the safety data sheet

P102	Keep out of reach of children.
P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/eye protection.

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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 according to the instructions of the manufacturer or person authorized to dispose of waste.

Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet

Acute Tox. Acute toxicity
ADR European agreement concerning the international carriage of dangerous goods by road
Aquatic Chronic Hazardous to the aquatic environment (chronic)
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
EC₅₀ 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
Eye Dam. Serious eye damage
Eye Irrit. Eye irritation
Flam. Liq. Flammable liquid
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
LC₅₀ Lethal concentration of a substance in which it can be expected death of 50% of the population
LD₅₀ Lethal dose of a substance in which it can be expected death of 50% of the population
log Kow Octanol-water partition coefficient
NOEC No observed effect concentration
OEL Occupational Exposure Limits
PBT Persistent, bioaccumulative and toxic
PMT Persistent, mobile and toxic
ppm Parts per million
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals
RID Agreement on the transport of dangerous goods by rail
Skin Irrit. Skin irritation
Skin Sens. Skin sensitization
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
vPvM Very persistent and very mobile

Training guidelines

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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

See section 15.

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)

Preparation of a document in accordance with Commission Regulation (EU) 2020/878.

More information

Classification procedure - calculation method.

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.