

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name

Разтворител на бетон и ръжда

Product code

[0893200333, 0893200331]

UFI:

EPRY-K0KV-182U-3YDV

<https://my.chemius.net/p/zwqbSf/en/pd/en>

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

[PC35] Washing and cleaning products.

[PROC8a] Transfer of substance or mixture (charging and discharging) at nondedicated facilities.

[ERC8a] Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor).

Uses advised against

Do not use in combination with chlorine-containing cleaning agents, since toxic gases can be generated.

1.3 Details of the supplier of the safety data sheet

Supplier

ВЮРТ-България ЕООД
Ул. Манастирска Воденица 53
1186 с. Герман, Bulgaria
+359 2 965 99 55
prodsafe@wuerth.com

1.4 Emergency Telephone Number

Emergency

112

Supplier

+359 2 965 99 55

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Skin Corr. 1B; H314 Causes severe skin burns and eye damage.

Eye Dam. 1; H318 Causes serious eye damage.

STOT SE 3; H335 May cause respiratory irritation.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

Signal word: DANGER

Hazard statements:

H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.

Supplemental hazard information (EU):

Not applicable.

Precautionary statements:

P260 Do not breathe mist/vapours/spray.
P280 Wear protective gloves/eye protection.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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/physician.
P405 Store locked up.
P501 Dispose of contents/container in accordance with national regulation.

Contains:

hydrochloric acid
alcohols, C12-14, ethoxylated

Special provisions

Restricted to professional users.

2.3 Other hazards

PBT/vPvB

Not applicable.

Endocrine disrupting properties

The mixture does not contain substances that are included in the list of substances with endocrine disrupting properties established in accordance with Article 59 of the REACH Regulation, in a concentration ≥ 0.1 w/w %. The mixture does not contain substances identified as substances with endocrine disrupting properties according to the criteria of Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605, in a concentration ≥ 0.1 w/w %.

Additional information

No information.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

For mixtures see 3.2.

3.2 Mixtures

Name	CAS EC Index REACH	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Concentration Limits	Notes for substances
hydrochloric acid	7647-01-0 231-595-7 017-002-01-X	15<30	Met. Corr. 1; H290 Skin Corr. 1B; H314 Eye Dam. 1; H318 STOT SE 3; H335	Skin Corr. 1B; H314; C $\geq 25\%$ Skin Irrit. 2; H315; 10% $\leq$ C < 25% Eye Irrit. 2; H319; 10% $\leq$ C < 25% STOT SE 3; H335; C $\geq 10\%$	B

Name	CAS EC Index REACH	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Concentration Limits	Notes for substances
alcohols, C12-14, ethoxylated	68439-50-9 - 01-2119487984-16	2.5 <5	Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Acute 1; H400; M = 1	/	/

Notes for substances

B	Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: "nitric acid ... %". In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.
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Product description

See SDS Section 16 for full text of hazard statements.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General notes

Remove contaminated clothing immediately. No action shall be taken involving any personal risk or without suitable training.

Following inhalation

Remove patient to fresh air - move out of dangerous area. In case of unconsciousness bring patient into stable side position and seek medical attention.

Following skin contact

Areas of the body that have come into contact with the product must be rinsed with water. Immediately obtain professional medical help!

Following eye contact

Immediately flush eyes with running water, keeping eyelids apart. Consult a physician immediately!

Following ingestion

Do not induce vomiting! Rinse mouth thoroughly with water. Drink plenty of water. Never give anything by mouth to an unconscious person. Immediately consult a doctor. Show the physician the safety data sheet or label. Drink plenty of water.

4.2 Most important symptoms and effects, both acute and delayed

Following inhalation

May cause irritation of respiratory system. Dry / sore throat, cough and shortness of breath.

Following skin contact

Skin burns: Signs/symptoms may include localised redness, swelling, itching, dryness, blistering.

Following eye contact

Causes serious eye damage.

Following ingestion

No information.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

Full water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

The product itself does not burn. Contact with metals releases hydrogen gas. In case of a fire toxic gases can be generated; do not inhale gases/smoke.

5.3 Advice for firefighters

Protective actions

In case of fire or heating do not breathe fumes/vapours. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots and gloves) (BS EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (BS EN 137).

Additional information

Contaminated firefighting water and fire residues must be disposed of in accordance with the local regulations.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Protective equipment

No information.

Precautionary measures

Ensure adequate ventilation.

Emergency procedures

No action shall be taken involving any personal risk or without suitable training. Prevent access to unprotected personnel. Evacuate the danger zone. Do not breathe vapour or mist. Avoid contact with skin, eyes and clothing.

For emergency responders

Use personal protective equipment.

6.2 Environmental precautions

Do not allow product to reach water/drains/sewage systems or permeable soil.

6.3 Methods and material for containment and cleaning up

For containment

Stem the spill if this does not pose risks.

For cleaning up

Absorb product (with inert material), collect it in special container and dispose it to a licensed hazardous-waste disposal contractor. Prevent release into the sewer, water, basements or confined areas. Ventilate the premises. Clean contaminated area with plenty of water.

Other information

No information.

6.4 Reference to other sections

See also sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Protective measures

Measures to prevent fire

Ensure adequate ventilation.

Measures to prevent aerosol and dust generation

Use general or local exhaust ventilation to prevent inhaling vapours and aerosols.

Measures to protect the environment

Do not discharge into drains, surface water and soil. After use immediately close container tightly.

Other measures

No information.

Advice on general occupational hygiene

Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Do not breathe vapours/mist. Avoid contact with skin, eyes and clothes. Remove contaminated clothes and wash them before reuse. Wear suitable protective equipment; see Section 8.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep in a cool, dry and well ventilated place. Keep away from food, drink and animal feeding stuffs. The floor must be acid-resistant.

Packaging materials

Store only in original container.

Requirements for storage rooms and vessels

Close opened containers after use. Put the containers upright to prevent from leaking. Do not store in unlabelled containers.

Storage temperature

No information.

Storage class

No information.

Further information on storage conditions

No information.

7.3 Specific end use(s)

Recommendations
See identified uses in Section 1.2.
Industrial sector specific solutions
No information.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters
Occupational Exposure limit values

Name	mg/m ³	ml/m ³	Short-term value mg/m ³	Short-term value ml/m ³	Remark	Biological Tolerance Values
Hydrogen chloride (gas and aerosol mists) (7647-01-0)	2	1	8	5	/	/

Information on monitoring procedures
BS EN 14042:2003 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 689:2018 Workplace exposure. Measurement of exposure by inhalation to chemical agents. Strategy for testing compliance with occupational exposure limit values. BS EN 482:2021 Workplace exposure. Procedures for the determination of the concentration of chemical agents. Basic performance requirements.

DNEL/DMEL values
For product
No information.

For components

Name	Type	Exposure route	exp. frequency	Remark	Value
hydrochloric acid	Worker	inhalation	long term local effects	/	8 mg/m ³
hydrochloric acid	Worker	inhalation	short term local effects	/	15 mg/m ³
hydrochloric acid	Consumer	inhalation	long term local effects	/	8 mg/m ³
hydrochloric acid	Consumer	inhalation	short term local effects	/	15 mg/m ³

PNEC values
For product
No information.
For components
No information.

8.2 Exposure controls
Appropriate engineering control

Substance/mixture related measures to prevent exposure during identified uses
Use good personal hygiene practices – wash hands at breaks and when done working with material. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothes. Do not eat, drink or smoke while working. Do not breathe vapours/aerosols.

Structural measures to prevent exposure

No information.

Organisational measures to prevent exposure

Remove all contaminated clothes immediately and wash them before reuse. Keep eyewash bottles or personal eyewash units and emergency showers available.

Technical measures to prevent exposure

Provide good ventilation and local exhaust in areas with increased concentration. Keep away from food, drink and animal feeding stuffs.

Personal protective equipment

Eye and face protection

Tight-fitting protective goggles (BS EN ISO 16321-1:2022/A1:2025).

Hand protection

Protective gloves (EN ISO 374). Observe the manufacturer's instructions regarding the use, storage, maintenance and replacement of gloves. In case of damage or at the first signs of wear and tear, change the gloves immediately. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. The penetration time is determined by the protective glove manufacturer and must be observed.

Appropriate materials

Material	Thickness	Penetration Time	Remark
Natural rubber	0.5 mm	8 h	/
Polychloroprene (PCP)	0.5 mm	8 h	/
nitrile rubber	0.5 mm	8 h	/
Butyl rubber	0.7 mm	480 min	/

Skin protection

At high risk of skin exposure chemical suits (BS EN 13034:2005+A1:2009) and boots may be required (BS EN ISO 20345:2022+A1:2024).

Respiratory protection

Wear suitable protective breathing mask (EN 136) with filter A2-P2 (EN 14387). In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Thermal hazards

No information.

Environmental exposure controls

Substance/mixture related measures to prevent exposure

No information.

Instruction measures to prevent exposure

No information.

Organisational measures to prevent exposure

No information.

Technical measures to prevent exposure

Do not allow product to reach drains, sewage systems or ground water.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties
Important health, safety and environmental information

Physical state	liquid
Shape	fluid
Colour	colourless
Odour	pungent
Odour threshold	Not determined
Melting/freezing point or softening point	No information.
Boiling point or initial boiling point and boiling range	100 °C (CAS: 7732-18-5 water, distilled, conductivity or of similar purity)
Flammability	No information.
Lower and upper explosion limit	No information.
Flash point	No information.
Auto-ignition temperature	Not self-igniting.
Decomposition temperature	No information.
pH	< 0.5
Viscosity	No information.
Solubility (Water)	miscible
Partition coefficient n-octanol/water (log value)	No information.
Vapour pressure	23 hPa at 20 °C
Density	1.114 g/cm ³
Relative vapour/gas density	No information.
Particle characteristics	No information.

9.2 Other information
Information with regard to physical hazard classes
No information.
Other safety characteristics
No information.
Other information
Product is not explosive.
Solids content: < 0,2 %.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity
The product is not reactive under normal conditions of use, storage and transport.

10.2 Chemical stability

Product is stable under normal conditions of use, recommended handling and storage conditions.

10.3 Possibility of hazardous reactions

No dangerous reactions occur under normal conditions of storage and use.

10.4 Conditions to avoid

Protect from heat, direct sunlight, open fire, sparks. Protect from frost. At high temperatures, hazardous decomposition products may be produced.

10.5 Incompatible materials

Metals.
Oxidants.
Reducing agents. Perchlorates. Sulphides;
Peroxides.
Nitrates.

10.6 Hazardous decomposition products

Under normal use conditions no hazardous decomposition products are expected. Hydrogen chloride (HCl).

SECTION 11: TOXICOLOGICAL INFORMATION

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

(a) Acute toxicity

For components

Name	Exposure route	Type	Species	Time	Value	Method	Remark
hydrochloric acid	inhalation (dusts/mists)	LC 50	/	5 min	45.6 mg/l	/	/
hydrochloric acid	dermal	LD 50	rabbit	/	900 mg/kg	/	/
alcohols, C12-14, ethoxylated	oral	LD 50	rat	/	2000 mg/kg	/	/
alcohols, C12-14, ethoxylated	dermal	LD 50	rabbit	/	2000 mg/kg	/	/

Additional information

The product is not classified as acutely toxic.

(b) Skin corrosion/irritation

No information.

Additional information

Causes severe skin burns and eye damage.

(c) Serious eye damage/irritation

No information.

Additional information

Causes serious eye damage.

(d) Respiratory or skin sensitisation

No information.

Additional information

The product is not classified as sensitising.

(e) (Germ cell) mutagenicity

No information.

(f) Carcinogenicity

No information.

(g) Reproductive toxicity

No information.

Summary of evaluation of the CMR properties

The product is not classified as carcinogenic, mutagenic or toxic for reproduction.

(h) STOT-single exposure

No information.

Additional information

May cause respiratory irritation.

(i) STOT-repeated exposure

No information.

Additional information

STOT RE (repeated exposure): Not classified.

(j) Aspiration hazard

No information.

Additional information

Aspiration hazard: Not classified.

Symptoms related to the physical, chemical and toxicological characteristics

No information.

Interactive effects

No information.

11.2 Information on other hazards

Endocrine disrupting properties

For product

The mixture does not contain substances that are included in the list of substances with endocrine disrupting properties established in accordance with Article 59 of the REACH Regulation, in a concentration ≥ 0.1 w/w %. The mixture does not contain substances identified as substances with endocrine disrupting properties according to the criteria of Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605, in a concentration ≥ 0.1 w/w %.

Other information

No information.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Acute (short-term) toxicity

For components

Name	Type	Value	Exposure time	Species	Organism	Method	Remark
hydrochloric acid	LC ₅₀	20.5 mg/L	96 h	fish	/	/	/
hydrochloric acid	EC ₅₀	0.45 mg/L	48 h	crustacea	/	/	/
hydrochloric acid	EC ₅₀	0.73 mg/L	72 h	algae	/	/	/
hydrochloric acid	EC ₁₀	0.364 mg/L	72 h	algae	/	/	/
alcohols, C12-14, ethoxylated	LC ₅₀	> 1 mg/L	96 h	fish	/	/	/
alcohols, C12-14, ethoxylated	EC ₅₀	140 mg/L	/	bacteria	/	/	/
alcohols, C12-14, ethoxylated	EC ₁₀	0.1 - 1 mg/L	72 h	algae	/	/	/
alcohols, C12-14, ethoxylated	EC ₅₀	> 1 mg/L	72 h	algae	/	/	/
alcohols, C12-14, ethoxylated	EC ₅₀	> 1 mg/L	48 h	crab	<i>Daphnia</i>	/	/

Chronic (long-term) toxicity

For components

Name	Type	Value	Exposure time	Species	Organism	Method	Remark
hydrochloric acid	NOEC	0.364 mg/l	/	algae	/	/	/

12.2 Persistence and degradability
Abiotic degradation, physical- and photo-chemical elimination

No information.

Biodegradation

No information.

Additional information

The product is easily biodegradable.

12.3 Bioaccumulative potential
Partition coefficient n-octanol/water (log value)

No information.

Bioconcentration factor (BCF)

No information.

12.4 Mobility in soil
Known or predicted distribution to environmental compartments

No information.

Surface tension

No information.

Adsorption/Desorption

No information.

Additional information

Adsorption to solid soil phase is not expected.

12.5 Results of PBT and vPvB assessment

Not applicable.

12.6 Endocrine disrupting properties

For product

The mixture does not contain substances that are included in the list of substances with endocrine disrupting properties established in accordance with Article 59 of the REACH Regulation, in a concentration ≥ 0.1 w/w %. The mixture does not contain substances identified as substances with endocrine disrupting properties according to the criteria of Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605, in a concentration ≥ 0.1 w/w %.

12.7 Other adverse effects

No information.

12.8 Additional information

For product

Product is not classified as hazardous for environment. Do not allow to reach ground water, water courses or sewage system. The surfactant(s) contained in this preparation complies (comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

For components

hydrochloric acid

Solubility in water: > 10000 mg/l.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product / Packaging disposal

Waste chemical

Do not allow product to reach drains/sewage systems. Dispose of in accordance with applicable waste disposal regulation.

Waste codes / waste designations according to LoW

No information.

Packaging

Deliver completely emptied containers to approved waste disposal authorities. Uncleaned containers are classified as hazardous waste - they should be handled in the same manner as the contents.

Waste codes / waste designations according to LoW

No information.

Waste treatment-relevant information

No information.

Sewage disposal-relevant information

No information.

Other disposal recommendations

No information.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number or ID number

ADR/RID	IMDG	IATA	ADN
UN 3264	UN 3264	UN 3264	UN 3264

14.2 UN proper shipping name

ADR/RID	IMDG	IATA	ADN
CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (hydrochloric acid)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (hydrochloric acid)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (hydrochloric acid)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (hydrochloric acid)

14.3 Transport hazard class(es)

ADR/RID	IMDG	IATA	ADN
8	8	8	8
			

14.4 Packing group

ADR/RID	IMDG	IATA	ADN
II	II	II	II

14.5 Environmental hazards

ADR/RID	IMDG	IATA	ADN
NO	NO	NO	NO

14.6 Special precautions for user

ADR/RID	IMDG	IATA	ADN
Limited quantities: 1 L Special provisions: 274 Packing Instructions: P001, IBC02 Transport category: 2 Tunnel restriction code: (E) Classification code: C1	Limited quantities: 1 L EmS: F-A, S-B	Limited Quantity, Packing Instructions (Ltd Qty, Pkg Inst): Y840 Limited Quantity, Maximum Net Quantity/Package (Ltd Qty, Max Net Qty/Pkg): 0.5 L Packing Instructions (Pkg Inst): 851 Maximum Net Quantity/Package (Max Net Qty/Pkg): 1 L Cargo Aircraft Only, Packing Instructions (CAO, Pkg Inst): 855 Cargo Aircraft Only, Maximum Net Quantity/Package (CAO, Max Net Qty/Pkg): 30 L Special provisions: A803 Excepted quantities: E2 ERG code: 8L	Limited quantities: 1 L

14.7 Maritime transport in bulk according to IMO instruments

ADR/RID	IMDG	IATA	ADN
	Goods may not be carried in bulk in bulk containers, containers or vehicles.		

SECTION 15: REGULATORY INFORMATION

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

- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2020/878)
- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
- EH40/2005 Workplace exposure limits (Fourth Edition 2020)

Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)
not applicable

Ingredients according to Regulation (EC) No 648/2004 on detergents
< 5%: non-ionic surfactants; perfumes (BENZALDEHYDE)

Special instructions
Observe the regulations on employment and protection against dangerous substances for young people, pregnant women and nursing mothers. Regulation (EC) No 273/2004 on drug precursors: Hydrogen chloride (7647-01-0).

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: OTHER INFORMATION

Indication of changes

No information.

Key literature references and sources for data

Safety data sheet of the manufacturer: TARCO Tarolit, 05.06.2024. version 4.0, European Chemicals Agency website: <https://echa.europa.eu/de/home>

Abbreviations and acronyms

ATE - Acute Toxicity Estimate
ADR - Agreement concerning the International Carriage of Dangerous Goods by Road
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
CEN - European Committee for Standardisation
C&L - Classification and Labelling
CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
CAS# - Chemical Abstracts Service number
CMR - Carcinogen, Mutagen, or Reproductive Toxicant
CSA - Chemical Safety Assessment
CSR - Chemical Safety Report
DMEL - Derived Minimal Effect Level
DNEL - Derived No Effect Level
DPD - Dangerous Preparations Directive 1999/45/EC
DSD - Dangerous Substances Directive 67/548/EEC
DU - Downstream User
EC - European Community
ECHA - European Chemicals Agency
EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)
EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)
EEC - European Economic Community
EINECS - European Inventory of Existing Commercial Substances
ELINCS - European List of notified Chemical Substances
EN - European Standard
EQS - Environmental Quality Standard
EU - European Union
Euphrac - European Phrase Catalogue
EWC - European Waste Catalogue (replaced by LoW – see below)
GES - Generic Exposure Scenario
GHS - Globally Harmonized System
IATA - International Air Transport Association
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG - International Maritime Dangerous Goods
IMSBC - International Maritime Solid Bulk Cargoes
IT - Information Technology
IUCLID - International Uniform Chemical Information Database
IUPAC - International Union for Pure Applied Chemistry
JRC - Joint Research Centre
Kow - octanol-water partition coefficient
LC50 - Lethal Concentration to 50 % of a test population
LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)
LE - Legal Entity
LoW - List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>)
LR - Lead Registrant
M/I - Manufacturer / Importer
MS - Member States
MSDS - Material Safety Data Sheet

OC - Operational Conditions
OECD - Organization for Economic Co-operation and Development
OEL - Occupational Exposure Limit
OJ - Official Journal
OR - Only Representative
OSHA - European Agency for Safety and Health at work
PBT - Persistent, Bioaccumulative and Toxic substance
PEC - Predicted Effect Concentration
PNEC(s) - Predicted No Effect Concentration(s)
PPE - Personal Protection Equipment
(Q)SAR - Qualitative Structure Activity Relationship
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals (Regulation (EC) No 1907/2006)
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
RIP - REACH Implementation Project
RMM - Risk Management Measure
SCBA - Self-Contained Breathing Apparatus
SDS - Safety data sheet
SIEF - Substance Information Exchange Forum
SME - Small and Medium sized Enterprises
STOT - Specific Target Organ Toxicity
(STOT) RE - Repeated Exposure
(STOT) SE - Single Exposure
SVHC - Substances of Very High Concern
UN - United Nations
vPvB - Very Persistent and Very Bioaccumulative

List of relevant H phrases

H290 May be corrosive to metals.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H400 Very toxic to aquatic life.

Further information / Responsible person

The product was classified according to the calculation method of Regulation (EC) No. 1272/2008 (CLP).



- ☒ Provided correct labelling of the product
- ☒ Compliance with the local legislation
- ☒ Provided correct classification of the product
- ☒ Provided adequate transport data

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The information of this SDS is based on the present state of our knowledge and meets the requirements of EU and national laws. The user's working conditions however, are beyond our knowledge and control. The product is not to be used for purposes other than those specified under section 1 without a written permission. It remains the responsibility of the user to ensure that the necessary steps are taken to meet the laws and regulations. Handling of the product may only be done by people above 18 years of age, who are satisfactorily informed of how to do the work, the hazardous properties and necessary safety precautions. The information given in this SDS is to describe the product

only in terms of health and safety requirements and should not, therefore, be construed as guaranteeing specific properties.