

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 01.04.2023

Version number 8 (replaces version 7)

Revision: 21.11.2022

SECTION 1: Identification of the substance/mixture and of the company/undertaking**· 1.1 Product identifier****· Trade name: PressurePro Foam Cleaner, alkaline RM 91 Agri****· UFI:** 22E0-30PE-U008-DR1U**· 1.2 Relevant identified uses of the substance or mixture and uses advised against**

Restricted to professional users.

· Application of the substance / the mixture

Detergent

High pressure cleaner

· 1.3 Details of the supplier of the safety data sheet**· Manufacturer/Supplier:****Alfred Kärcher SE & Co. KG**

Alfred-Kärcher-Str. 28-40

D - 71364 Winnenden

Tel.: +49-7195-14-0

Karcher Ltd

Unit 3

Redcow Retail Centre

Robinhood Road, Ballymount

Dublin 22

D22 PY03

Tel.: +353 1 409 7777

Internet: www.karcher.com**· Further information obtainable from:**

Regulatory Affairs

Tel.: +49-7195-14-0

productsafety.management@de.kaercher.com**· 1.4 Emergency telephone number:**

Emergency medical information: 8am-10pm (seven days) contact National Poisons Information Centre, Beaumont Hospital, Dublin 9 DOV2NO, Ireland.

Telephone Number: +353 (0)1 809 2166

For Hazardous Materials [or Dangerous Goods] Incidents

Spill, Leak, Fire, Exposure, or Accident

Call CHEMTREC Day or Night

Within USA and Canada: 1-800-424-9300

Outside USA and Canada: +1 703-741-5970 (collect calls accepted)

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SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**

Met. Corr.1 H290 May be corrosive to metals.

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

Eye Dam. 1 H318 Causes serious eye damage.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

- **Hazard pictograms**



GHS05

- **Signal word** Danger

- **Hazard-determining components of labelling:**

sodium hydroxide

isotridecanoethoxylate + 8 EO

sodium metasilicate

- **Hazard statements**

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

- **Precautionary statements**

P280 Wear protective gloves/protective clothing/eye protection/face 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/doctor.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **2.3 Other hazards**

The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds.

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description: Cleaning agent

Dangerous components:

| | | |
|---|---|-----------------|
| CAS: 1310-73-2 EINECS: 215-185-5 Index number: 011-002-00-6 Reg.nr.: 01-2119457892-27-xxxx | sodium hydroxide Met. Corr. 1, H290; Skin Corr. 1A, H314 Specific concentration limits: Skin Corr. 1A; H314: $C \geq 5\%$ Skin Corr. 1B; H314: $2\% \leq C < 5\%$ Skin Irrit. 2; H315: $0.5\% \leq C < 2\%$ Eye Irrit. 2; H319: $0.5\% \leq C < 2\%$ | 5-10% |
| CAS: 68891-38-3 NLP: 500-234-8 Reg.nr.: 01-2119488639-16-XXXX | sodium lauryl ether sulfate Eye Dam. 1, H318; Skin Irrit. 2, H315; Aquatic Chronic 3, H412 Specific concentration limits: Eye Dam. 1; H318: $C \geq 10\%$ Eye Irrit. 2; H319: $5\% \leq C < 10\%$ | ≥ 2.5 -<5% |
| CAS: 69011-36-5 | isotridecanoethoxylate + 8 EO Eye Dam. 1, H318; Acute Tox. 4, H302 | ≥ 1 -<3% |
| CAS: 10213-79-3 EINECS: 229-912-9 Index number: 014-010-00-8 Reg.nr.: 01-2119449811-37 | sodium metasilicate Met. Corr. 1, H290; Skin Corr. 1B, H314; STOT SE 3, H335 | ≥ 1 -<5% |
| CAS: 15763-76-5 EINECS: 239-854-6 Reg.nr.: 01-2119489411-37-xxxx | sodium p-cumenesulphonate Eye Irrit. 2, H319 | 1-5% |
| CAS: 68439-57-6 EC number: 931-534-0 Reg.nr.: 01-2119513401-57-0001 | Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts Eye Dam. 1, H318; Skin Irrit. 2, H315 Specific concentration limits: Skin Irrit. 2; H315: $C \geq 5\%$ Eye Dam. 1; H318: $C \geq 38\%$ Eye Irrit. 2; H319: $5\% \leq C < 38\%$ | 0.1-1% |

Regulation (EC) No 648/2004 on detergents / Labelling for contents

anionic surfactants, non-ionic surfactants

<5%

Additional information For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Involve doctor immediately.

Immediately remove any clothing soiled by the product.

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Trade name: PressurePro Foam Cleaner, alkaline RM 91 Agri*(Contd. of page 3)***· After inhalation**

In case of unconsciousness place patient stably in side position for transportation.
Supply fresh air; consult doctor in case of complaints.

· After skin contact

Immediately wash with water and soap and rinse thoroughly.
Immediately rinse with water.

· After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.**· After swallowing**

Rinse out mouth and then drink plenty of water.
Do not induce vomiting; call for medical help immediately.
Drink plenty of water and provide fresh air. Call for a doctor immediately.

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

Causes severe skin burns and eye damage.

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

No further relevant information available.

SECTION 5: Firefighting measures**· 5.1 Extinguishing media****· Suitable extinguishing agents**

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· 5.2 Special hazards arising from the substance or mixture No further relevant information available.**· 5.3 Advice for firefighters****· Protective equipment:** Wear fully protective suit.**· Additional information**

Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures**· 6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

· 6.2 Environmental precautions:

Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
Do not allow to penetrate the ground/soil.

· 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).
Use neutralising agent.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.

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· 6.4 Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Avoid contact with eyes and skin.

· **Information about fire - and explosion protection:** No special measures required.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage

· Requirements to be met by storerooms and receptacles:

Use only receptacles specifically permitted for this substance/product.

Unsuitable material for receptacle: aluminium.

Store only in the original receptacle.

· Information about storage in one common storage facility:

Do not store together with acids.

Keep away from food, beverages and feed.

· **Further information about storage conditions:** Keep receptacle tightly sealed.

· **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

1310-73-2 sodium hydroxide

OEL Short-term value: 2 mg/m³

· DNELs

1310-73-2 sodium hydroxide

Inhalative DNEL 1 mg/m³ (employee)

1 mg/m³ (consumer)

15763-76-5 sodium p-cumenesulphonate

Oral DNEL 3.8 mg/kg*d (consumer)

Dermal DNEL 136.25 mg/kg*d (employee)

68.1 mg/kg*d (consumer)

Inhalative DNEL 26.9 mg/m³ (employee)

6.6 mg/m³ (consumer)

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· PNECs

15763-76-5 sodium p-cumenesulphonate

| | |
|---------------|---|
| PNEC | 0.23 mg/l (freshwater) 0.023 mg/l (marine water) 100 mg/l (STP) |
| PNEC sediment | 0.862 mg/kg (freshwater) 0.086 mg/kg (marine water) |
| PNEC soil | 0.037 mg/kg (soil) |

· 8.2 Exposure controls

· **Appropriate engineering controls** No further data; see item 7.

· **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures**

Do not inhale gases / fumes / aerosols.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

· **Respiratory protection:**

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.

Filter A/P2.

· **Hand protection**



Protective gloves.

· **Material of gloves** Butyl rubber, BR

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **For the permanent contact gloves made of the following materials are suitable:**

* butyl rubber 0,7 mm, 480 min (EN 374)

· **As protection from splashes gloves made of the following materials are suitable:**

* nitril rubber 0,4 mm, 30 min (EN 374)

· **Eye/face protection**



Tightly sealed goggles (EN 166)

· **Body protection:**

Boots

Apron

IE

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

| | |
|--|-------------------------|
| Physical state | Fluid |
| Colour: | Yellowish |
| Odour: | Product specific |
| Odour threshold: | Not determined. |
| Melting point/freezing point: | 0 °C |
| Boiling point or initial boiling point and boiling range | 100 °C |
| Flammability | Not applicable. |
| Lower and upper explosion limit | |
| Lower: | Not determined. |
| Upper: | Not determined. |
| Flash point: | Not applicable |
| Ignition temperature: | not applicable |
| Decomposition temperature: | Not determined. |
| pH at 20 °C | 13.2 |
| pH 1 % dem. | 12-13 |
| Viscosity: | |
| Kinematic viscosity | Not determined. |
| dynamic at 20 °C: | 20 mPas |
| Solubility | |
| Water: | Fully miscible |
| Partition coefficient n-octanol/water (log value) | Not determined. |
| Vapour pressure: | Not determined. |
| Density and/or relative density | |
| Density at 20 °C: | 1.116 g/cm ³ |
| Relative density | Not determined. |
| Vapour density | Not determined. |
| Relative gas density | Not determined. |
| Particle characteristics | Not applicable. |

9.2 Other information

Appearance:

Form: Fluid

Important information on protection of health and environment, and on safety.

| | |
|----------------------------|---|
| Auto-ignition temperature: | Product is not selfigniting. |
| Explosive properties: | Product does not present an explosion hazard. |
| Solvent content: | |
| Solids content: | 26.0 % |
| Change in condition | |
| Evaporation rate | Not determined. |

Information with regard to physical hazard classes

Explosives Void

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| | |
|---|-----------------------------|
| · Flammable gases | Void |
| · Aerosols | Void |
| · Oxidising gases | Void |
| · Gases under pressure | Void |
| · Flammable liquids | Void |
| · Flammable solids | Void |
| · Self-reactive substances and mixtures | Void |
| · Pyrophoric liquids | Void |
| · Pyrophoric solids | Void |
| · Self-heating substances and mixtures | Void |
| · Substances and mixtures, which emit flammable gases in contact with water | Void |
| · Oxidising liquids | Void |
| · Oxidising solids | Void |
| · Organic peroxides | Void |
| · Corrosive to metals | May be corrosive to metals. |
| · Desensitised explosives | Void |

SECTION 10: Stability and reactivity

- **10.1 Reactivity** corresponds to 10.3
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions**
Strong exothermic reaction with acids
Reacts with light alloys to form hydrogen
Corrodes aluminium
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** Not compatible with alkali-sensitive substances like Sn, Zn, Al and paintings.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**
69011-36-5 isotridecanoethoxylate + 8 EO

| | | |
|------|-----|-----------------|
| Oral | ATE | 500 mg/kg (Rat) |
|------|-----|-----------------|

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10213-79-3 sodium metasilicate

Dermal LD50 >5000 mg/kg (Rat)

15763-76-5 sodium p-cumenesulphonate

Oral LD50 >5000 mg/kg (Rat) (OECD 401)

Dermal LD50 >2000 mg/kg (Rabbit)

68439-57-6 Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts

Oral LD50 2079 mg/kg (Rat) (OECD 401)

Dermal LD50 >6300 mg/kg (Rabbit) (OECD 402)

- **Skin corrosion/irritation** Causes severe skin burns and eye damage.
- **Serious eye damage/irritation** Causes serious eye damage.
- **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.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-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

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

1310-73-2 sodium hydroxide

LC50/96 h 125 mg/l (Gambusia affinis)

EC50/48 h 76 mg/l (Daphnia magna)

40.4 mg/l (Ceriodaphnia dubia)

EC50/15 min 22 mg/l (Photobacterium phosphoreum)

68891-38-3 sodium lauryl ether sulfate

LC50/96 h >1-10 mg/l (Brachydanio rerio) (OECD 203)

EC50/48 h >1-10 mg/l (Daphnia magna) (OECD 202)

EC50/72 h >10-100 mg/l (Algae) (OECD 201)

EC50 (static) >10000 mg/l (Pseudomonas putida)

NOEC (dynamic) 0.27 mg/l /(21 d) (Daphnia magna) (OECD 211)

0.14 mg/l /(28 d) (Oncorhynchus mykiss) (OECD 204)

69011-36-5 isotridecanoethoxylate + 8 EO

LC50/96 h >1-10 mg/l (Leuciscus idus)

EC50/48 h >1-10 mg/l (Aquatic invertebrates)

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| | |
|---|--|
| EC50/72 h | >1-10 mg/l (Aquatic plants) |
| 10213-79-3 sodium metasilicate | |
| LC50/96 h | 210 mg/l (Brachydanio rerio) |
| EC50/48 h | 1700 mg/l (Daphnia magna) |
| EC50/72 h | >345 mg/l (Desmodesmus subspicatus) (DIN 38412 T9) |
| EC50/96 h | 216 mg/l (Daphnia magna) |
| EC50/3h | >100 mg/l (STP) (OECD 209 / ISO 8192) |
| 15763-76-5 sodium p-cumenesulphonate | |
| LC50/96 h (static) | >100 mg/l (Oncorhynchus mykiss) |
| EC50/48 h (static) | >100 mg/l (Daphnia magna) |
| EC50/96 h (static) | >100 mg/l (Pseudokirchneriella subcapitata) |
| 68439-57-6 Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts | |
| LC50/96 h | 4.2 mg/l (Danio rerio) (OECD 203) |
| EC50/48 h | 4.53 mg/l (Daphnia sp.) (OECD 202) |
| EC50/72 h | 5.2 mg/l (Algae) (OECD 201) |
| EC50 | 230 mg/l (bacteria) (OECD 209) |
| 12.2 Persistence and degradability | |
| 69011-36-5 isotridecanoethoxylate + 8 EO | |
| Bismuth-act. sup. | ≥90 % (mod. OECD 301 E) |

• **12.3 Bioaccumulative potential** No further relevant information available.

• **12.4 Mobility in soil** No further relevant information available.

• **12.5 Results of PBT and vPvB assessment**

• **PBT:** Not applicable.

• **vPvB:** Not applicable.

• **12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

• **12.7 Other adverse effects**

• **Additional ecological information:**

• **COD-value:** 200000 mg/l

• **General notes:**

The product does not contain organically bounded halogens (AOX-free).

The contained organic complexing agents reach a DOC-elimination grade of 80% (corresponding to No. 406 of Annex "Analytic and measuring methods") and with this meet the tightened demands of Annex 49 of the revised Directive on liquid waste.

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.

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Must not reach sewage water or drainage ditch undiluted or unneutralised.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Must be specially treated adhering to official regulations.

· European waste catalogue

| | |
|-----------|--|
| 20 01 29* | detergents containing hazardous substances |
|-----------|--|

· Uncleaned packaging:

· Recommendation:

Non contaminated packagings may be recycled.
Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

· **Recommended cleansing agents:** Water, if necessary together with cleaning agents.

SECTION 14: Transport information

· 14.1 UN number or ID number

| | |
|-------------------|--------|
| · ADR, IMDG, IATA | UN1824 |
|-------------------|--------|

· 14.2 UN proper shipping name

| | |
|--------------|--------------------------------|
| · ADR | 1824 SODIUM HYDROXIDE SOLUTION |
| · IMDG, IATA | SODIUM HYDROXIDE SOLUTION |

· 14.3 Transport hazard class(es)

· ADR



| | |
|---------|------------------------------|
| · Class | 8 (C5) Corrosive substances. |
|---------|------------------------------|

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| | |
|---|---|
| · Label | 8 |
| · IMDG, IATA | |
|  | |
| · Class | 8 Corrosive substances. |
| · Label | 8 |
| · 14.4 Packing group | |
| · ADR, IMDG, IATA | II |
| · 14.5 Environmental hazards: | |
| · Marine pollutant: | No |
| · 14.6 Special precautions for user | Warning: Corrosive substances. |
| · Hazard identification number (Kemler code): | 80 |
| · EMS Number: | F-A,S-B |
| · Stowage Category | A |
| · Segregation Code | SG35 Stow "separated from" SGG1-acids |
| · 14.7 Maritime transport in bulk according to IMO instruments | Not applicable. |
| · Transport/Additional information: | |
| · ADR | |
| · Limited quantities (LQ) | 1L |
| · Excepted quantities (EQ) | Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml |
| · Transport category | 2 |
| · Tunnel restriction code | E |
| · IMDG | |
| · Limited quantities (LQ) | 1L |
| · Excepted quantities (EQ) | Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml |
| · UN "Model Regulation": | UN 1824 SODIUM HYDROXIDE SOLUTION, 8, II |

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SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
- **National regulations**
- **Information about limitation of use:** Employment restrictions concerning juveniles must be observed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.
A product information sheet can be provided if requested.

- **Relevant 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.
- H412 Harmful to aquatic life with long lasting effects.

· **Classification according to Regulation (EC) No 1272/2008**

| | |
|--|--|
| Corrosive to metals | On basis of test data |
| Skin corrosion/irritation Serious eye damage/eye irritation | The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008. |

- **Contact:**
- Regulatory Affairs
- Tel.: +49-7195-14-0
- productsafety.management@de.kaercher.com

· **Version number of previous version: 7**

· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent

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LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Met. Corr. 1: Corrosive to metals – Category 1
Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1A: Skin corrosion/irritation – Category 1A
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

• *** Data compared to the previous version altered.**

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