

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA
GHS

Printing date: 13 March 2017

Revision: 13 March 2017

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

1.1 Product identifier

Trade name: **Bowl-San v.2**

Article number: 100929

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

No further relevant information available.

Application of the substance / the mixture: Toilet cleaner

Uses advised against: No further relevant information available.

1.3 Details of the supplier of the Safety Data Sheet

Manufacturer/Supplier:

Theochem Laboratories
7373 Rowlett Park Drive
Tampa, FL 33610
Phone: 813-237-6463



1.4 Emergency telephone number:

ChemTel Inc.
(800)255-3924 (North America)
+1 (813)248-0585 (International)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Classifications listed are applicable to the OSHA GHS Hazard Communication Standard (29CFR1910.1200).

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H412.

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

Skin Irrit. 2 H315 Causes skin irritation.

Eye Dam. 1 H318 Causes serious eye damage.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is additionally classified and labelled according to the Globally Harmonized System within the United States (GHS).

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

Hazard pictograms



GHS05

Signal word Danger

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

Amines, Tallow Alkyl, Ethoxylated
hydrochloric acid

· **Hazard statements**

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H412.

H290 May be corrosive to metals.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

· **Precautionary statements**

P264 Wash thoroughly after handling.

P280 Wear protective gloves / eye protection.

P234 Keep only in original container.

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.

P302+P352 IF ON SKIN: Wash with plenty of water.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P406 Store in corrosive resistant container with a resistant inner liner.

· **NFPA ratings (scale 0 - 4)**



Health = 3

Fire = 0

Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



HEALTH 3 Health = 3

FIRE 0 Fire = 0

REACTIVITY 0 Reactivity = 0

· **2.3 Other hazards**

There are no other hazards not otherwise classified that have been identified.

0 % of the mixture consists of component(s) of unknown toxicity.

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**

· **Components:**

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CAS: 7647-01-0 EINECS: 231-595-7 Index number: 017-002-00-2 Reg.nr.: 01-2119484862-27-XXXX	hydrochloric acid Met. Corr. 1, H290; Skin Corr. 1B, H314; Eye Dam. 1, H318 STOT SE 3, H335	<10%
CAS: 61791-26-2 NLP: 500-153-8	Amines, Tallow Alkyl, Ethoxylated Skin Corr. 1C, H314 Aquatic Acute 1, H400; Aquatic Chronic 2, H411 Acute Tox. 4, H302	<5%
CAS: 9016-45-9 NLP: 500-024-6 Reg.nr.: 01-2119946371-39-XXXX	nonylphenol, ethoxylated Aquatic Chronic 2, H411 Skin Irrit. 2, H315; Eye Irrit. 2, H319	<1%
CAS: 1643-20-5 EINECS: 216-700-6 Reg.nr.: 01-2120068065-58-XXXX	dodecyldimethylamine oxide Eye Dam. 1, H318 Aquatic Acute 1, H400; Aquatic Chronic 2, H411 Acute Tox. 4, H302; Skin Irrit. 2, H315	<1%

SVHC

9016-45-9 | nonylphenol, ethoxylated

Additional information:

For the listed ingredient(s), the identity and/or exact percentages are being withheld as a trade secret.
For the wording of the listed Hazard Statements refer to section 16.

SECTION 4: First aid measures**4.1 Description of first aid measures****General information:**

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After inhalation:

Supply fresh air; consult doctor in case of complaints.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact:

Immediately remove any clothing soiled by the product.

Immediately rinse with water.

If skin irritation continues, consult a doctor.

Seek immediate medical help for blistering or open wounds.

After eye contact:

Protect unharmed eye.

Rinse opened eye for several minutes under running water.

Remove contact lenses if worn.

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.

4.2 Most important symptoms and effects, both acute and delayed

Coughing

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Breathing difficulty

Gastric or intestinal disorders.

- **Hazards:**

Danger of gastric perforation.

Danger of impaired breathing.

- **4.3 Indication of any immediate medical attention and special treatment needed**

Monitor circulation, possible shock treatment.

Medical supervision for at least 48 hours.

If necessary oxygen respiration treatment.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**

- **Suitable extinguishing agents:**

The product is not flammable.

Use fire extinguishing methods suitable to surrounding conditions.

- **For safety reasons unsuitable extinguishing agents:** None.

- **5.2 Special hazards arising from the substance or mixture**

In case of fire, the following can be released:

Hydrogen chloride (HCl)

Carbon monoxide (CO)

Nitrogen oxides (NOx)

- **5.3 Advice for firefighters**

- **Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

- **Additional information:** Cool endangered receptacles with water spray.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**

Use respiratory protective device against the effects of fumes/dust/aerosol.

Remove persons from danger area.

Ensure adequate ventilation

Wear protective equipment. Keep unprotected persons away.

- **6.2 Environmental precautions** Do not allow product to reach sewage system or any water course.

- **6.3 Methods and material for containment and cleaning up**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Pick up mechanically.

Clean the affected area carefully; suitable cleaners are:

Warm water

- **6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

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SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Use only in well ventilated areas.
Prevent formation of aerosols.

· **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:**

Store only in the original receptacle.
Unsuitable material for receptacle: aluminium.
Unsuitable material for receptacle: steel.

· **Information about storage in one common storage facility:**

Do not store together with alkalis (caustic solutions).
Store away from oxidising agents.
Store away from foodstuffs.

· **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.

· **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:**

7647-01-0 hydrochloric acid

IOELV (EU)	Short-term value: 15 mg/m ³ , 10 ppm Long-term value: 8 mg/m ³ , 5 ppm
AGW (Germany)	Long-term value: 3 mg/m ³ , 2 ppm 2(I);DFG, EU, Y
PEL (USA)	Ceiling limit: 7 mg/m ³ , 5 ppm
REL (USA)	Ceiling limit: 7 mg/m ³ , 5 ppm
TLV (USA)	Ceiling limit: 2,98 mg/m ³ , 2 ppm

· 8.2 Exposure controls

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Avoid contact with the eyes and skin.
Do not inhale gases / fumes / aerosols.

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- **Respiratory protection:**

Not necessary if room is well-ventilated.

Use suitable respiratory protective device in case of insufficient ventilation.

Use suitable respiratory protective device when aerosol or mist is formed.

- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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

Nitrile rubber, NBR

Neoprene gloves

PVC gloves

Natural rubber, NR

- **Not suitable are gloves made of the following materials:**

PVA gloves

Leather gloves

- **Eye protection:**



Safety glasses

Goggles recommended during refilling

- **Body protection:** Acid resistant protective clothing

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **Appearance**

Form:

Liquid

Colour:

Dark blue

- **Odour:**

Pleasant

- **Odour threshold:**

Not determined.

- **pH-value at 20 °C (68 °F):**

< 2,0

- **Melting point/freezing point:**

Not determined.

- **Initial boiling point and boiling range:**

100 °C (212 °F)

- **Flash point:**

Not applicable.

- **Flammability (solid, gas):**

Not applicable.

- **Auto/Self-ignition temperature:**

Decomposition temperature:

Not determined.

- **Explosive properties:**

Product does not present an explosion hazard.

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· Explosion limits	
Lower:	Not determined.
Upper:	Not determined.
· Vapour pressure:	Not determined.
· Density:	
Relative density:	1,03-1,05
Vapour density:	Not determined.
Evaporation rate:	Not determined.
· Solubility in / Miscibility with water:	Fully miscible.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity	
Dynamic:	Not determined.
Kinematic:	Not determined.
· 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions**
Reacts with alkali and metals.
Reacts with strong oxidising agents.
Reacts with amines.
Corrosive action on metals.
Reacts with metals forming hydrogen.
- **10.4 Conditions to avoid** Store away from oxidising agents.
- **10.5 Incompatible materials**
Warning! Do not use together with other products. May release dangerous gases (chlorine).
- **10.6 Hazardous decomposition products**
Carbon monoxide and carbon dioxide
Hydrogen chloride (HCl)
Nitrogen oxides

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:** Based on available data, the classification criteria are not met.

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· LD/LC50 values relevant for classification:		
61791-26-2 Amines, Tallow Alkyl, Ethoxylated		
Oral	LD50	1000-2000 mg/kg (rat)

· **Primary irritant effect**· **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.· **Carcinogenic categories**· **IARC (International Agency for Research on Cancer):**

None of the ingredients are listed.

· **NTP (National Toxicology Program):**

None of the ingredients are listed.

· **OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

· **Probable routes of exposure:**

Ingestion.

Inhalation

Eye contact.

Skin contact.

· **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.

SECTION 12: Ecological information

· **12.1 Toxicity**· **Aquatic toxicity:** The product contains materials that are harmful to the environment.· **12.2 Persistence and degradability** A part of the components is biodegradable.· **12.3 Bioaccumulative potential** Does not accumulate in organisms.· **12.4 Mobility in soil** No further relevant information available.· **Ecotoxicological effects:**· **Remark:** Harmful to fish· **Additional ecological information:**· **General notes:**

This statement was deduced from the properties of the single components.

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

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Harmful to aquatic organisms

Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.

12.5 Results of PBT and vPvB assessment

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

Uncleaned packaging:

- **Recommendation:** Disposal must be made according to official regulations.

- **Recommended cleansing agents:** Water only.

SECTION 14: Transport information

14.1 UN-Number

- DOT, ADR, IMDG, IATA

UN3264

14.2 UN proper shipping name

- DOT, ADR, IMDG, IATA

CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
(HYDROCHLORIC ACID SOLUTION)

14.3 Transport hazard class(es)

- DOT



- Class

8 Corrosive substances.

- Label

8

- ADR



- Class

8 (C1) Corrosive substances.

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· Label	8
· IMDG, IATA	
	
· Class	8 Corrosive substances.
· Label	8
· 14.4 Packing group	
· DOT, ADR, IMDG, IATA	III
· 14.5 Environmental hazards:	
· Marine pollutant:	No
· 14.6 Special precautions for user	Warning: Corrosive substances.
· Danger code (Kemler):	80
· EMS Number:	F-A,S-B
· Segregation groups	Acids
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	
· DOT	See 173.154(d) for corrosive exceptions.
	Limited Quantity for packages less than 30 kg gross and inner packagings less than 5 L each.
· ADR	
	Limited Quantity for packages less than 30 kg gross and inner packagings less than 5 L each.
· IMDG	
	Limited Quantity for packages less than 30 kg gross and inner packagings less than 5 L each.
· IATA	
	Limited Quantity for packages less than 30 kg gross and inner packagings less than 0,5 L each / 1 L net.

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SECTION 15: Regulatory information

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

- United States (USA)
- SARA

· Section 355 (extremely hazardous substances):

7647-01-0	hydrochloric acid
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· Section 313 (Specific toxic chemical listings):

7647-01-0	hydrochloric acid
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· TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Proposition 65 (California):

· Chemicals known to cause cancer:

Present in trace quantities.

Ethanol - listing refers specifically to alcoholic beverage consumption and is not applicable for product.

64-17-5	ethanol
---------	---------

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity:

Present in trace quantities.

Ethanol - listing refers specifically to alcoholic beverage consumption and is not applicable for product.

64-17-5	ethanol
---------	---------

· Carcinogenic Categories

· EPA (Environmental Protection Agency)

None of the ingredients are listed.

· Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA)

EPA Product Registration #: 10324-158-9367.

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

KEEP OUT OF REACH OF CHILDREN

DANGER

FIRST AID: Have the product container or label with you when calling a poison control center or doctor, or going for treatment. IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice. IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. IF INHALED:

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Remove person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER. Keep out of reach of children. Corrosive. Causes irreversible eye damage and skin burns. Harmful if swallowed. Harmful if absorbed through the skin or inhaled. Avoid breathing spray mist. Do not get into eyes, on skin or on clothing. Wear goggles or face shield and rubber gloves and protective clothing when handling. Wash thoroughly with soap and water after handling and before eating, drinking, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse. GENERAL PRECAUTION AND RESTRICTIONS: DO NOT MIX WITH CHLORINE, BLEACH, AMMONIA CLEANERS OR OTHER HOUSEHOLD CHEMICALS.

PHYSICAL OR CHEMICAL HAZARDS

Do not mix with oxidizers, anionic soaps and detergents.

NEVER USE WITH CHLORINE PRODUCTS. Can react to give chlorine gas. If this occurs, flush toilet to remove chemicals and leave the area. Do not return for half an hour. Ventilate if possible. Never use or mix with other cleaners or chemicals. Do not use on any surface that can be damaged by acidic materials. Many surfaces are not resistant to acid.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

PESTICIDE STORAGE: Open dumping is prohibited. Store only in original container. Do not reuse empty container. If a leaky container must be contained within another, mark the outer container to identify the contents. Store pesticides away from food, pet food, feed, seed, fertilizers, and veterinary supplies. Keep this product under locked storage sufficient to make it inaccessible to children or persons unfamiliar with its proper use.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

CONTAINER HANDLING DISPOSAL: Non-refillable container. Do not reuse this container to hold materials other than pesticides or diluted pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state. Offer for recycling if available or puncture and dispose in a sanitary landfill, or by other procedures approved by state and local authorities. If rinsate cannot be used, follow pesticide disposal instructions. If not triple rinsed, these containers are acute hazardous wastes and must be disposed in accordance with local, state and federal regulations.

RESIDUE REMOVAL INSTRUCTIONS: Triple rinse container or equivalent promptly after emptying. Triple rinse as follows: Fill the container ¼ full with water and recap. Shake for 10 seconds. Follow Pesticide Disposal instructions for rinsate disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

· IARC (International Agency for Research on Cancer)

None of the ingredients are listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients are listed.

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<ul style="list-style-type: none"> · Canadian Domestic Substances List (DSL)
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All ingredients are listed.

<ul style="list-style-type: none"> · Other regulations, limitations and prohibitive regulations

<ul style="list-style-type: none"> · Substances of very high concern (SVHC) according to REACH, Article 57
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9016-45-9 nonylphenol, ethoxylated

<ul style="list-style-type: none"> · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.
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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.

- **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.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

- **Abbreviations and acronyms:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

Met. Corr. 1: Corrosive to metals – Category 1

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Skin Corr. 1C: Skin corrosion/irritation – Category 1C

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 Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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Sources

Website, European Chemicals Agency (echa.europa.eu)
Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do)
Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)
Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6
Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.
Safety Data Sheets, Individual Manufacturers

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