

# SAFETY DATA SHEET



Trade name: Sodium 2-Mercaptobenzothiazole

Print Date: 6. January 2021

Version: 1.1, revision date: 02.01.2021

Replaced version: 1.0 created on: 27.06.2019

Region: EN

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

### 1.1. Product identifier

Product form : Mixture  
Name : Sodium 2-Mercaptobenzothiazole

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

Corrosion inhibitors

#### Uses advised against

No available.

### 1.3. Details of the supplier of the safety data sheet

#### Company

SysKem Chemie GmbH  
Brucknerweg 26  
D-42289 Wuppertal

Telephone : +49 (0) 202/30999510  
Telefax : +49 (0) 202/87088403  
E-mail address : info@syskem.de

#### Prepared by / E-mail address of person responsible for the SDS

info@syskem.de

### 1.4. Emergency telephone number

Vergiftungs-Informationen-Zentrale Freiburg, Tel. +49 761 19240.

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Met. Corr. 1	H290 May be corrosive to metals.
Skin Corr. 1B	H314 Causes severe skin burns and eye damage.
Aquatic Acute 1	H400 Very toxic to aquatic life.
Aquatic Chronic 1	H410 Very toxic to aquatic life with long lasting effects.
Skin Sens. 1	H317 May cause an allergic skin reaction.

### 2.2. Label elements

#### Hazard pictograms (CLP)

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



#### Signal word (CLP)

Danger

#### Hazard-determining components of labelling:

Sodium benzothiazol-2-yl sulphide  
sodium hydroxide

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## Hazard statements (CLP)

H290 May be corrosive to metals.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H410 Very toxic to aquatic life with long lasting effects.

## Precautionary statements (CLP)

P273 Avoid release to the environment.  
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/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.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P391 Collect spillage.

## 2.3. Other hazards

### Results of PBT and vPvB assessment

PBT: Not applicable due to data  
vPvB: Not applicable due to data

## SECTION 3: Composition/information on ingredients

### 3.2 Mixture

#### Description:

Aqueous solution of:

#### Dangerous components:

CAS: 2492-26-4	Sodium benzothiazol-2-yl sulphide	> 49%
EINECS: 219-660-8	Met. Corr.1, H290; Skin Corr. 1B, H314;	
Reg.nr.: 01-2119493018-35	Aquatic Acute 1, H400;	
	Aquatic Chronic 1, H410; Skin Sens. 1, H317	
CAS: 1310-73-2	sodium hydroxide	< 0,6%
EINECS: 215-185-5	Met. Corr.1, H290; Skin Corr. 1A, H314;	
Indexnumber: 011-002-00-6	Eye Dam. 1, H318	
Reg.nr.: 01-2119457892-27		
CAS: 95-16-9	benzothiazole	< 0,5%
EINECS: 202-396-2	Acute Tox. 3, H301; Acute Tox. 3, H311;	
Reg.nr.: 01-2119457568-24	Acute Tox. 4, H332; Eye Irrit. 2, H319	

#### 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:

Personal protection for the First Aider.  
Immediately remove any clothing soiled by the product.

#### After inhalation:

Supply fresh air and to be sure call for a doctor.  
In case of unconsciousness place patient stably in side position for transportation.  
If breathing stops, provide artificial respiration.



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## **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.  
Immediate medical treatment necessary. Failure to treat burns can prevent wounds from healing.  
Take off immediately all contaminated clothing

## **After eye contact:**

Rinse opened eye for several minutes under running water.  
Protect unharmed eye.  
Call a doctor immediately.  
Remove contact lenses.

## **After swallowing:**

Rinse out mouth and then drink plenty of water.  
Never give anything to the mouth of an unconscious person.  
Do not induce vomiting; call for medical help immediately.  
A person vomiting while laying on their back should be turned onto their side.

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

Nausea  
Coughing  
Spasms  
Gastric or intestinal disorders  
Irritation of mucous membranes  
Skin irritation  
Irritation and corrosion  
Risk of blindness  
Vomiting

## **Information for doctor**

No specific therapy is known.

## **Hazards**

Danger of gastric perforation.

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

Symptomatic treatment (decontamination, vital functions).

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media:**

Use fire extinguishing methods suitable to surrounding conditions.  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

#### **Unsuitable extinguishing media**

Water with full jet

### **5.2. Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.  
In case of fire, the following can be released:  
Carbon monoxide and carbon dioxide  
Nitrogen oxides (NO<sub>x</sub>)  
Sulphur oxides (SO<sub>x</sub>)  
Metalloxyde fumes



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## 5.3. Advice for firefighters

### Protective equipment:

Do not inhale explosion gases or combustion gases.

Wear fully protective suit.

Wear self-contained respiratory protective device.

### Additional information

Cool endangered receptacles with water spray.

Heating leads to increased pressure and danger of bursting and explosion.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

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

Ensure adequate ventilation

Wear protective equipment. Keep unprotected persons away.

Avoid contact with any product

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

### 6.2. Environmental precautions

Avoid release to the environment.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

### 6.3. Methods and material for containment and cleaning up

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

Use neutralising agent.

Take up mechanically and collect in suitable container (adequately labelled) for disposal.

Ensure adequate ventilation.

### 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

Keep receptacles tightly sealed.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Wear suitable respiratory protective device when aerosols are formed.

### Information about fire - and explosion protection:

No special measures required.

The product is not flammable.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Storage:

#### Requirements to be met by storerooms and receptacles:

Store only in the original receptacle.

Provide alkali-resistant floor. Prevent any seepage into the ground.

Unsuitable material for receptacle: aluminium.

Unsuitable material for receptacle: zinc



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

Store away from feed and foodstuffs.

Do not store together with acids.

Store away from oxidising agents.

**Further information about storage conditions:**

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

Store receptacle in a well ventilated area.

Store under lock and key and with access restricted to technical experts or their assistants only.

**Storage class:**

8B - Non-flammable corrosive hazardous materials

**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

WEL (Great Britain) Short-term value: 2 mg/m<sup>3</sup>**DNELs**

In = Industrial

Cons = Consumer

LLE = Long term, local effects

LSE = Long term, systemic effects

SLE = Short term, local effects

SSE = Short term, systemic effects

**2492-26-4 Sodium benzothiazol-2-yl sulphide**

Oral	DNEL/Cons/LSE 1.5 mg/kg bw/day (human)
	DNEL/Cons/SSE 1.5 mg/kg bw/day (human)
Dermal	DNEL/In/LSE 2.8 mg/kg bw/day (human)
	DNEL/In/SSE 2.8 mg/kg bw/day (human)
Inhalative	DNEL/Cons/SSE 1.5 mg/kg bw/day (human)
	DNEL/Cons/LSE 1.5 mg/kg bw/day (human)
	DNEL/In/LLE 1 mg/m <sup>3</sup> (human)
	DNEL/In/LSE 10 mg/m <sup>3</sup> (human)
	DNEL/In/SLE 1 mg/m <sup>3</sup> (human)
	DNEL/In/SSE 10 mg/m <sup>3</sup> (human)
	DNEL/Cons/LLE 1 mg/m <sup>3</sup> (human)
	DNEL/Cons/LSE 2.5 mg/m <sup>3</sup> (human)
	DNEL/Cons/SLE 1 mg/m <sup>3</sup> (human)
	DNEL/Cons/SSE 2.5 mg/m <sup>3</sup> (human)

**1310-73-2 sodium hydroxide**

Inhalative	DNEL/In/LLE 1 mg/m <sup>3</sup> (human)
	DNEL/Cons/LLE 1 mg/m <sup>3</sup> (human)



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**PNECs**

Abbreviations:

aq = aqua

sed = sediment

**2492-26-4 Sodium benzothiazol-2-yl sulphide**

PNEC/Aq 0.004 mg/l (freshwater)

0 mg/l (marine water)

PNEC/sed 0.147 mg/kg (freshwater)

0.015 mg/kg (marine water)

PNEC/soil 0.027 mg/kg (soil)

PNEC STP 0.3 mg/l (sewage treatment plant)

**Additional information:**

The lists valid during the making were used as basis.

**8.2. Appropriate engineering 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.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Ensure that washing facilities are available at the work place.

Provide eye bath.

If larger quantities are handled provide emergency showers.

**Respiratory protection:**

If vapours or aerosols occur wear suitable respiratory device.

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.

Short term filter device: Filter A/P2 ABEK

**Protection of hands:**

chemicals resistant gloves.

Softening of the callus when wearing air-impermeable gloves is possible.

Check protective gloves prior to each use for their proper condition.

If only a short-term loading of the glove material by splashes is expected, tricoted gloves with higher wearability for the better acceptance of the users are recommended.

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

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

After use of gloves apply skin-cleaning agents and skin cosmetics.

**Material of gloves**

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

**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.

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

Nitrile rubber, NBR

PVC gloves

Chloroprene rubber, CR



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**Eye protection:**

Tightly sealed goggles

If vapours or aerosols occur which may harm the eyes, wearing of a full mask is strongly recommended.

**Body protection:**

Protective work clothing

Boots

Apron

Selection of protective clothing is subject to the specific kind of work and the corresponding risk potential.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

## General Information

## Appearance:

Form

Fluid

Colour

Amber coloured

Odour

Characteristic

Odour threshold

Not determined.

pH-value at 20 °C:

11,5 - 13,5

## Change in condition

Melting point/freezing point:

~ -14 °C

Initial boiling point and boiling range:

107 °C

Flash point:

&gt; 108 °C (c.c.)

Flammability (solid, gas):

Not applicable.

Ignition temperature:

Not applicable.

Decomposition temperature:

Not determined.

Auto-ignition temperature:

Product is not selfigniting.

Explosive properties:

Product does not present an explosion hazard.

Explosion limits:

Lower:

Not determined.

Upper:

Not determined.

Oxidising properties

No

Vapour pressure at 20 °C:

23 hPa

Density at 20 °C:

1,26 g/cm<sup>3</sup>

Relative density

Not determined.

Vapour density

Not determined.

Evaporation rate

Not determined.

Solubility in / Miscibility with water:

Fully miscible.

Partition coefficient: n-octanol/water at 20 °C

2,42 log POW ((CAS 2492-26-4))

Viscosity:

Dynamic at 20 °C:

27 mPa\*s

Kinematic:

Not determined.

Solvent content:

Organic solvents:

0,0 %

Water:

45 - 55 %

Solids content:

45 - 55 %

**9.2. Other information**

No further relevant information available.



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**SECTION 10: Stability and reactivity****10.1. Reactivity**

No further relevant information available.

**10.2. Chemical stability**

No decomposition if used and stored according to specifications.  
To avoid thermal decomposition do not overheat.

**10.3. Possibility of hazardous reactions**

Reacts with light alloys to form hydrogen.  
Reacts with acids.

**10.4. Conditions to avoid**

Sources of ignition

**10.5. Incompatible materials**

Acids.  
Aluminium  
Zinc

**10.6. Hazardous decomposition products**

If stored and handled properly: none known

**SECTION 11: Toxicological information****11.1. Information on toxicological effects**

Acute toxicity

Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:

ATE oral: &gt; 2000 mg/kg

ATE dermal: &gt; 2000 mg/kg

2492-26-4 Sodium benzothiazol-2-yl sulphide

Oral LD50 2,100 mg/kg (rat (masculus))

Dermal LD50 &gt;7,940 mg/kg (rabbit)

95-16-9 benzothiazole

Oral LD50 178 mg/kg (rat (femininus)) (similar to OECD 401)

257 mg/kg (rat (masculus)) (similar to OECD 401)

Dermal LD50 933 mg/kg (rat (femininus)) (OECD 402)

1,231 mg/kg (rat (masculus)) (OECD 402)

Inhalative LC50/4 h ~5 mg/l (rat) (OECD 403)

atmosphere containing analytical concentrations of 0.377mg/l (vapour); 2.36 mg/l (aerosol) and 6.154 mg/l (aerosol) benzothiazole for 4 hours.

**Skin corrosion/irritation**

Causes severe skin burns and eye damage.

**Serious eye damage/eye irritation**

Causes severe skin burns and eye damage.





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**Respiratory or skin sensitisation**

May cause an allergic skin reaction.

**Mutagenicity**

Based on available data, the classification criteria are not met.

**Genotoxicity in vivo**

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 toxicity**

Based on available data, the classification criteria are not met.

**SECTION 12: Ecological information****12.1 Toxicity****Aquatic toxicity:****2492-26-4 Sodium benzothiazol-2-yl sulphide**

NOEC (dynamic)	0.041 mg/l (Onchorhynchus mykiss) (89d; TSCA Test No. 797.1600)
	READ ACROSS (2-mercaptobenzothiazole, purity 98.2 %)
LC50/96h (dynamic)	0.73 mg/l (Onchorhynchus mykiss) (similar to OECD 203)
	READ ACROSS (Thiotax, purity not specified)
EC50/72h (static)	0.5 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
EC50/48h (static)	0.71 mg/l (Daphnia magna) (OECD 202)
	READ ACROSS
NOEC (21d)	0.08 mg/l (Daphnia magna) (OECD 211)
	READ ACROSS

**95-16-9 benzothiazole**

LC50/96h	39 mg/l (Orl) (OECD 203)
EC50/72h (static)	48.7 mg/l (Desmodesmus subspicatus) (OECD 201)
EC50/48h (static)	19 mg/l (Daphnia magna) (OECD 202)
NOEC (21d)	1.5 mg/l (Daphnia magna) (OECD 211)

**12.2 Persistence and degradability**

2.4 % / 14 d (OECD 301 C)  
 Not easily biodegradable  
 (READ ACROSS for CAS 2492-26-4)

**12.3 Bioaccumulative potential**

The potential of accumulation in organisms is to be estimated small.

**12.4 Mobility in soil**

No further relevant information available.



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**12.5 Results of PBT and vPvB assessment**

PBT: Not applicable due to data  
vPvB: Not applicable due to data

**12.6 Other adverse effects**

No further relevant information available.

**Ecotoxical effects:****Remark:**

Very toxic for algae  
Harmful effect by pH-value shift.

**Additional ecological information:****General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.

**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.  
Disposal must be made according to official regulations.  
Must be recycled or disposed of according to the regulations. Waste has to be classified according to the European Waste Catalogue (EWC) based on the identification of the waste generating source.

**European waste catalogue**

16 00 00 WASTES NOT OTHERWISE SPECIFIED IN THE LIST  
16 03 00 off-specification batches and unused products  
16 03 05\* organic wastes containing dangerous substances

**Uncleaned packaging:****Recommendation:**

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

**Recommended cleansing agents:**

Water, if necessary together with cleansing agents.

**SECTION 14: Transport information****14.1 UN number****ADR, IMDG, IATA**

UN3267

**14.2 UN proper shipping name****ADR**

CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (Sodium  
benzothiazol-2-yl sulphide, SODIUM HYDROXIDE),  
ENVIRONMENTALLY HAZARDOUS

**IMDG**

CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (Sodium  
benzothiazol-2-yl sulphide, SODIUM HYDROXIDE),  
MARINE POLLUTANT

**IATA**

CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (Sodium  
benzothiazol-2-yl sulphide, SODIUM HYDROXIDE)

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## 14.3 Transport hazard class(es)

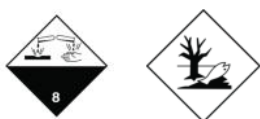
### ADR



Class  
Label

8 (C7) Corrosive substances.  
8

### IMDG



Class  
Label

8 Corrosive substances.  
8

### IATA



Class  
Label

8 Corrosive substances.  
8

## 14.4 Packing group

ADR, IMDG, IATA

II

## 14.5 Environmental hazards

Marine pollutant:

Product contains environmentally hazardous substances:  
Sodium benzothiazol-2-yl sulphide  
YES

Special marking (ADR):

Symbol (fish and tree)  
Symbol (fish and tree)

## 14.6 Special precautions for user

Warning: Corrosive substances.

Danger code (Kemler):

80

EMS Number:

F-A,S-B

Segregation groups

Alkalis

Stowage Category

B

Stowage Code

SW2 Clear of living quarters.

Segregation Code

SG35 Stow "separated from" acids.

## 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

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

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## IMDG

Limited quantities (LQ)

Excepted quantities (EQ)

1L

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

## UN "Model Regulation":

UN 3267 CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.  
(SODIUM BENZOTHAZOL-2-YL SULPHIDE, SODIUM  
HYDROXIDE), 8, II, ENVIRONMENTALLY HAZARDOUS

## 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.

#### Seveso category

E1 Hazardous to the Aquatic Environment

**Qualifying quantity (tonnes) for the application of lower-tier requirements**

100 t

**Qualifying quantity (tonnes) for the application of upper-tier requirements**

200 t

#### 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.

#### Waterhazard class:

Water hazard class 2 (Self-assessment): hazardous for water.

### 15.2. Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.

## SECTION 16: Other information

### Further 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.

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

### Training hints

Provide adequate information, instruction and training for operators.

### Sources

ECHA - European Chemicals Agency

MSDS of the supplier

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## Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
ICAO: International Civil Aviation Organisation  
ADR: Accord européen sur le transport 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  
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. 3: Acute toxicity – Category 3  
Acute Tox. 4: Acute toxicity – Category 4  
Skin Corr. 1A: Skin corrosion/irritation – Category 1A  
Skin Corr. 1B: Skin corrosion/irritation – Category 1B  
Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
Skin Sens. 1: Skin sensitisation – Category 1  
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1  
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1