

# Safety data sheet

acc. to Safe Work Australia - Code of Practice



## Copper(II) sulphate solution 0,1 mol/l - 0,1 N volumetric standard solution

article number: **9948**  
Version: **GHS 4.0 en**  
Replaces version of: 2020-08-20  
Version: (GHS 3)

date of compilation: 2016-08-31  
Revision: 2022-02-18

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

#### 1.1 Product identifier

Identification of the substance **Copper(II) sulphate solution 0,1 mol/l - 0,1 N volumetric standard solution**

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

Relevant identified uses: Laboratory chemical  
Laboratory and analytical use

Uses advised against: Do not use for products which come into contact with foodstuffs. Do not use for private purposes (household).

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

Carl Roth GmbH + Co KG  
Schoemperlenstr. 3-5  
D-76185 Karlsruhe  
Germany

**Telephone:**+49 (0) 721 - 56 06 0

**Telefax:** +49 (0) 721 - 56 06 149

**e-mail:** sicherheit@carlroth.de

**Website:** www.carlroth.de

Competent person responsible for the safety data sheet: :Department Health, Safety and Environment

**e-mail (competent person):** **sicherheit@carlroth.de**

#### 1.4 Emergency telephone number

| Name   | Street          | Postal code/city   | Telephone | Website |
|--|-----------------|--------------------|-----------|---------|
| NSW Poisons Information Centre<br>Childrens Hospital | Hawkesbury Road | 2145 Westmead, NSW | 131126    |         |

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Classification acc. to GHS

| Section | Hazard class                      | Category | Hazard class and category | Hazard statement |
|---------|-----------------------------------|----------|---------------------------|------------------|
| 3.3     | Serious eye damage/eye irritation | 2        | Eye Irrit. 2              | H319             |

For full text of abbreviations: see SECTION 16

#### 2.2 Label elements

**Labelling**

**Signal word**

**Warning**

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### Pictograms

GHS07



### Hazard statements

H319 Causes serious eye irritation

### Precautionary statements

#### Precautionary statements - prevention

P280 Wear eye protection/face protection

#### Precautionary statements - response

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337+P313 If eye irritation persists: Get medical advice/attention

### 2.3 Other hazards

#### Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

not relevant (mixture)

### 3.2 Mixtures

#### Description of the mixture

| Name of substance                | Identifier       | Wt%   | Classification acc. to GHS               | Pictograms | Notes |
|----------------------------------|------------------|-------|--|------------|-------|
| Copper(II) sulphate pentahydrate | CAS No 7758-99-8 | < 2.5 | Acute Tox. 4 / H302<br>Eye Dam. 1 / H318 |            |       |

For full text of abbreviations: see SECTION 16

## SECTION 4: First aid measures

### 4.1 Description of first aid measures



#### General notes

Take off contaminated clothing.

#### Following inhalation

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

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### Following skin contact

Rinse skin with water/shower. In all cases of doubt, or when symptoms persist, seek medical advice.

### Following eye contact

Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. In case of eye irritation consult an ophthalmologist.

### Following ingestion

Rinse mouth. Call a doctor if you feel unwell.

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

Irritation

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

none

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media



#### Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings  
water spray, alcohol resistant foam, dry extinguishing powder, BC-powder, carbon dioxide (CO<sub>2</sub>)

#### Unsuitable extinguishing media

water jet

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

Non-combustible.

### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures



#### For non-emergency personnel

Avoid contact with skin, eyes and clothes. Do not breathe vapour/spray.

### 6.2 Environmental precautions

Keep away from drains, surface and ground water.

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

#### Advice on how to contain a spill

Covering of drains.

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### Advice on how to clean up a spill

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

### Other information relating to spills and releases

Place in appropriate containers for disposal.

### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

No special measures are necessary.

### Advice on general occupational hygiene

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs.

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

Keep container tightly closed.

### Incompatible substances or mixtures

Observe hints for combined storage.

### Consideration of other advice:

### Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C

### 7.3 Specific end use(s)

No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### National limit values

#### Occupational exposure limit values (Workplace Exposure Limits)

This information is not available.

| Relevant DNELs of components of the mixture |           |           |                     |                                    |                   |                            |
|---|-----------|-----------|---------------------|------------------------------------|-------------------|----------------------------|
| Name of substance                           | CAS No    | End-point | Threshold level     | Protection goal, route of exposure | Used in           | Exposure time              |
| Copper(II) sulphate pentahydrate            | 7758-99-8 | DNEL      | 1 mg/m <sup>3</sup> | human, inhalatory                  | worker (industry) | chronic - systemic effects |
| Copper(II) sulphate pentahydrate            | 7758-99-8 | DNEL      | 1 mg/m <sup>3</sup> | human, inhalatory                  | worker (industry) | chronic - local effects    |
| Copper(II) sulphate pentahydrate            | 7758-99-8 | DNEL      | 137 mg/kg bw/day    | human, dermal                      | worker (industry) | chronic - systemic effects |

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| Relevant PNECs of components of the mixture |           |           |                 |                       |                              |                              |
|---|-----------|-----------|-----------------|-----------------------|------------------------------|------------------------------|
| Name of substance                           | CAS No    | End-point | Threshold level | Organism              | Environmental compartment    | Exposure time                |
| Copper(II) sulphate pentahydrate            | 7758-99-8 | PNEC      | 7.8 µg/l        | aquatic organisms     | freshwater                   | short-term (single instance) |
| Copper(II) sulphate pentahydrate            | 7758-99-8 | PNEC      | 5.2 µg/l        | aquatic organisms     | marine water                 | short-term (single instance) |
| Copper(II) sulphate pentahydrate            | 7758-99-8 | PNEC      | 230 µg/l        | aquatic organisms     | sewage treatment plant (STP) | short-term (single instance) |
| Copper(II) sulphate pentahydrate            | 7758-99-8 | PNEC      | 87 mg/kg        | aquatic organisms     | freshwater sediment          | short-term (single instance) |
| Copper(II) sulphate pentahydrate            | 7758-99-8 | PNEC      | 676 mg/kg       | aquatic organisms     | marine sediment              | short-term (single instance) |
| Copper(II) sulphate pentahydrate            | 7758-99-8 | PNEC      | 65 mg/kg        | terrestrial organisms | soil                         | short-term (single instance) |

### 8.2 Exposure controls

#### Individual protection measures (personal protective equipment)

##### Eye/face protection



Use safety goggle with side protection.

##### Skin protection



##### • hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The times are approximate values from measurements at 22 ° C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a considerable reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

##### • type of material

NBR (Nitrile rubber)

##### • material thickness

>0,11 mm

##### • breakthrough times of the glove material

>480 minutes (permeation: level 6)

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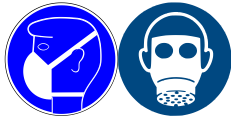
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### • other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

### Respiratory protection



Respiratory protection necessary at: Aerosol or mist formation. Usually no personal respiratory protection necessary.

### Environmental exposure controls

Keep away from drains, surface and ground water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|  |   |
|--|---|
| Physical state   | liquid  |
| Colour   | blue  |
| Odour  | odourless                                     |
| Melting point/freezing point                             | not determined                                |
| Boiling point or initial boiling point and boiling range | 100 °C at 1,013 hPa                           |
| Flammability   | non-combustible                               |
| Lower and upper explosion limit                          | not determined                                |
| Flash point  | not determined                                |
| Auto-ignition temperature                                | not determined                                |
| Decomposition temperature                                | not relevant                                  |
| pH (value)   | not determined (acidic)                       |
| Kinematic viscosity                                      | not determined                                |
| <u>Solubility(ies)</u>                                   |   |
| Water solubility   | miscible in any proportion                    |
| <u>Partition coefficient</u>                             |   |
| Partition coefficient n-octanol/water (log value):       | not relevant (inorganic)                      |
| Vapour pressure  | not determined                                |
| <u>Density and/or relative density</u>                   |   |
| Density  | 1.015 g/cm <sup>3</sup> at 20 °C              |
| Relative vapour density                                  | information on this property is not available |

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Particle characteristics not relevant (liquid)

### Other safety parameters

Oxidising properties none

## 9.2 Other information

Information with regard to physical hazard classes: hazard classes acc. to GHS (physical hazards): not relevant

Other safety characteristics:

Miscibility completely miscible with water

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

This material is not reactive under normal ambient conditions.

### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

### 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

### 10.5 Incompatible materials

There is no additional information.

### 10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Test data are not available for the complete mixture.

#### Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### Classification acc. to GHS

#### Acute toxicity

Shall not be classified as acutely toxic.

| Acute toxicity estimate (ATE) of components of the mixture |           |                |           |
|--|-----------|----------------|-----------|
| Name of substance  | CAS No    | Exposure route | ATE       |
| Copper(II) sulphate pentahydrate                           | 7758-99-8 | oral           | 482 mg/kg |

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| Acute toxicity of components of the mixture |           |                |          |              |         |
|---|-----------|----------------|----------|--------------|---------|
| Name of substance                           | CAS No    | Exposure route | Endpoint | Value        | Species |
| Copper(II) sulphate pentahydrate            | 7758-99-8 | oral           | LD50     | 482 mg/kg    | rat     |
| Copper(II) sulphate pentahydrate            | 7758-99-8 | dermal         | LD50     | >2,000 mg/kg | rat     |

### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

### Serious eye damage/eye irritation

Causes serious eye irritation.

### Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

### Carcinogenicity

Shall not be classified as carcinogenic.

### Reproductive toxicity

Shall not be classified as a reproductive toxicant.

### Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

### Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

### Symptoms related to the physical, chemical and toxicological characteristics

#### • If swallowed

diarrhoea, gastrointestinal complaints

#### • If in eyes

Causes serious eye irritation

#### • If inhaled

Data are not available.

#### • If on skin

Data are not available.

#### • Other information

none

## 11.2 Endocrine disrupting properties

None of the ingredients are listed.



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### SECTION 12: Ecological information

#### 12.1 Toxicity

Toxic to aquatic life with long lasting effects.

| Aquatic toxicity (acute) of components of the mixture |           |          |           |         |               |
|---|-----------|----------|-----------|---------|---------------|
| Name of substance                                     | CAS No    | Endpoint | Value     | Species | Exposure time |
| Copper(II) sulphate pentahydrate                      | 7758-99-8 | LC50     | 38.4 µg/l | fish    | 96 h          |

#### Biodegradation

The methods for determining the biological degradability are not applicable to inorganic substances.

#### 12.2 Process of degradability

Data are not available.

#### 12.3 Bioaccumulative potential

Data are not available.

#### 12.4 Mobility in soil

Data are not available.

#### 12.5 Results of PBT and vPvB assessment

Data are not available.

#### 12.6 Endocrine disrupting properties

None of the ingredients are listed.

#### 12.7 Other adverse effects

Data are not available.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Sewage disposal-relevant information

Do not empty into drains.

#### Waste treatment of containers/packagings

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.

#### 13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions.

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### SECTION 14: Transport information

#### 14.1 UN number

|           |            |
|-----------|------------|
| UN RTDG   | UN<br>3082 |
| IMDG-Code | UN 3082    |
| ICAO-TI   | UN 3082    |

#### 14.2 UN proper shipping name

|  |   |
|--|---|
| UN RTDG                                | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
| IMDG-Code                              | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
| ICAO-TI                                | Environmentally hazardous substance, liquid, n.o.s. |
| Technical name (hazardous ingredients) | Copper(II) sulphate pentahydrate                    |

#### 14.3 Transport hazard class(es)

|           |   |
|-----------|---|
| UN RTDG   | 9 |
| IMDG-Code | 9 |
| ICAO-TI   | 9 |

#### 14.4 Packing group

|           |     |
|-----------|-----|
| UN RTDG   | III |
| IMDG-Code | III |
| ICAO-TI   | III |

#### 14.5 Environmental hazards

|  |                                      |
|--|--------------------------------------|
|  | hazardous to the aquatic environment |
| Environmentally hazardous substance (aquatic environment): | Copper(II) sulphate pentahydrate     |

#### 14.6 Special precautions for user

There is no additional information.

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

The cargo is not intended to be carried in bulk.

#### 14.8 Information for each of the UN Model Regulations

| Transport information | National regulations | Additional information(UN RTDG)             |
|-----------------------|----------------------|---|
| UN number             |                      | 3082  |
| Class                 |                      | 9   |
| Environmental hazards |                      | Yes<br>Hazardous to the aquatic environment |
| Packing group         |                      | III   |
| Danger label(s)       |                      | 9<br>Fish and tree                          |

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**Special provisions (SP)** 274, 331, 335, 375  
UN RTDG

**Excepted quantities (EQ)** E1  
UN RTDG

**Limited quantities (LQ)** 5 L  
UN RTDG

### International Maritime Dangerous Goods Code (IMDG) - Additional information

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Particulars in the shipper's declaration UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (contains: Copper(II) sulphate pentahydrate), 9, III

Marine pollutant YES (hazardous to the aquatic environment), (Copper(II) sulphate pentahydrate)

Danger label(s) 9, "Fish and tree"



Special provisions (SP) 274, 335, 969

Excepted quantities (EQ) E1

Limited quantities (LQ) 5 L

EmS F-A, S-F

Stowage category A

### International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Proper shipping name Environmentally hazardous substance, liquid, n.o.s.

Particulars in the shipper's declaration UN3082, Environmentally hazardous substance, liquid, n.o.s., (contains: Copper(II) sulphate pentahydrate), 9, III

Environmental hazards YES (hazardous to the aquatic environment)

Danger label(s) 9, "Fish and tree"



Special provisions (SP) A97, A158, A197, A215

Excepted quantities (EQ) E1

Limited quantities (LQ) 30 kg

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### SECTION 15: Regulatory information

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

There is no additional information.

##### National regulations(Australia)

##### Australian Inventory of Chemical Substances(AICS)

All ingredients are listed or exempt from listing.

##### Other information

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

##### National inventories

| Country | Inventory | Status                         |
|---------|-----------|--------------------------------|
| AU      | AICS      | all ingredients are listed     |
| CA      | DSL       | not all ingredients are listed |
| CN      | IECSC     | all ingredients are listed     |
| EU      | ECSI      | all ingredients are listed     |
| JP      | CSCL-ENCS | not all ingredients are listed |
| KR      | KECI      | all ingredients are listed     |
| MX      | INSQ      | not all ingredients are listed |
| NZ      | NZIoC     | all ingredients are listed     |
| PH      | PICCS     | all ingredients are listed     |
| TR      | CICR      | not all ingredients are listed |
| TW      | TCSI      | all ingredients are listed     |
| US      | TSCA      | not all ingredients are listed |

##### Legend

|           |   |
|-----------|---|
| AICS      | Australian Inventory of Chemical Substances                             |
| CICR      | Chemical Inventory and Control Regulation                               |
| CSCL-ENCS | List of Existing and New Chemical Substances (CSCL-ENCS)                |
| DSL       | Domestic Substances List (DSL)  |
| ECSI      | EC Substance Inventory (EINECS, ELINCS, NLP)                            |
| IECSC     | Inventory of Existing Chemical Substances Produced or Imported in China |
| INSQ      | National Inventory of Chemical Substances                               |
| KECI      | Korea Existing Chemicals Inventory                                      |
| NZIoC     | New Zealand Inventory of Chemicals                                      |
| PICCS     | Philippine Inventory of Chemicals and Chemical Substances (PICCS)       |
| TCSI      | Taiwan Chemical Substance Inventory                                     |
| TSCA      | Toxic Substance Control Act   |

#### 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

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### SECTION 16: Other information

#### Indication of changes (revised safety data sheet)

Alignment to regulation: Globally Harmonized System of Classification and Labelling of Chemicals ("Purple book").

Restructuring: section 9, section 14

| Section | Former entry (text/value)  | Actual entry (text/value)  | Safety-relevant |
|---------|--|--|-----------------|
| 2.1     |  | Classification acc. to GHS:<br>change in the listing (table)   | yes             |
| 2.2     | Labelling of packages where the contents do not exceed 125 ml:<br>Signal word: Warning |  | yes             |
| 2.2     |  | Labelling of packages where the contents do not exceed 125 ml:<br>change in the listing (table)                              | yes             |
| 2.2     |  | Labelling of packages where the contents do not exceed 125 ml:<br>change in the listing (table)                              | yes             |
| 2.3     | Other hazards:<br>There is no additional information.                                  | Other hazards  | yes             |
| 2.3     |  | Results of PBT and vPvB assessment:<br>This mixture does not contain any substances that are assessed to be a PBT or a vPvB. | yes             |

#### Abbreviations and acronyms

| Abbr.      | Descriptions of used abbreviations  |
|------------|---|
| Acute Tox. | Acute toxicity  |
| ATE        | Acute Toxicity Estimate   |
| CAS        | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)    |
| DGR        | Dangerous Goods Regulations (see IATA/DGR)  |
| DNEL       | Derived No-Effect Level   |
| EINECS     | European Inventory of Existing Commercial Chemical Substances   |
| ELINCS     | European List of Notified Chemical Substances   |
| EmS        | Emergency Schedule  |
| Eye Dam.   | Seriously damaging to the eye   |
| Eye Irrit. | Irritant to the eye   |
| GHS        | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations |
| IATA       | International Air Transport Association   |
| IATA/DGR   | Dangerous Goods Regulations (DGR) for the air transport (IATA)  |
| ICAO       | International Civil Aviation Organization   |
| ICAO-TI    | Technical instructions for the safe transport of dangerous goods by air                                   |
| IMDG       | International Maritime Dangerous Goods Code   |

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| Abbr.     | Descriptions of used abbreviations  |
|-----------|---|
| IMDG-Code | International Maritime Dangerous Goods Code   |
| LC50      | Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval |
| LD50      | Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval                  |
| MARPOL    | International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")   |
| NLP       | No-Longer Polymer   |
| PBT       | Persistent, Bioaccumulative and Toxic   |
| PNEC      | Predicted No-Effect Concentration   |
| UN RTDG   | UN Recommendations on the Transport of Dangerous Good   |
| vPvB      | Very Persistent and very Bioaccumulative  |

### Key literature references and sources for data

Safe Work Australia's Code of Practice for Labelling of Workplace Hazardous Chemicals (under WHS Regulations).

UN Recommendations on the Transport of Dangerous Good. International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

### Classification procedure

Physical and chemical properties. The classification is based on tested mixture.

Health hazards. Environmental hazards. The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

### List of relevant phrases (code and full text as stated in section 2 and 3)

| Code | Text                           |
|------|--------------------------------|
| H302 | Harmful if swallowed.          |
| H318 | Causes serious eye damage.     |
| H319 | Causes serious eye irritation. |

### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.