

# Safety data sheet

Safe Work Australia - Code of Practice



## ortho-Phosphoric acid 85 %, Ph.Eur.

article number: **2608**  
Version: **GHS 2.0 en**  
Replaces version of: 2016-04-29  
Version: (GHS 1)

date of compilation: 2016-04-29  
Revision: 2019-05-09

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

### 1.1 Product identifier

|                                 |                              |
|---------------------------------|------------------------------|
| Identification of the substance | <b>ortho-Phosphoric acid</b> |
| Article number                  | 2608                         |
| Registration number (REACH)     | 01-2119485924-24-xxxx        |
| Index No                        | 015-011-00-6                 |
| EC number                       | 231-633-2                    |
| CAS number                      | 7664-38-2                    |

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

**Identified uses:** laboratory chemical  
laboratory and analytical use

### 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](mailto:sicherheit@carlroth.de)  
**Website:** [www.carlroth.de](http://www.carlroth.de)

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

**e-mail (competent person)** : [sicherheit@carlroth.de](mailto: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    |         |

Emergency information service

**Poison Centre Munich: +49/(0)89 19240**

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification acc. to GHS**

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| Classification acc. to GHS |  |                           |                  |
|----------------------------|--|---------------------------|------------------|
| Section                    | Hazard class                             | Hazard class and category | Hazard statement |
| 2.16                       | substance or mixture corrosive to metals | (Met. Corr. 1)            | H290             |
| 3.1D                       | acute toxicity (dermal)                  | (Acute Tox. 5)            | H313             |
| 3.2                        | skin corrosion/irritation                | (Skin Corr. 1)            | H314             |
| 3.3                        | serious eye damage/eye irritation        | (Eye Dam. 1)              | H318             |

## 2.2 Label elements

### Labelling GHS

#### Signal word

**Danger**

#### Pictograms

GHS05



#### Hazard statements

H290 May be corrosive to metals  
H313 May be harmful in contact with skin  
H314 Causes severe skin burns and eye damage

#### Precautionary statements

##### Precautionary statements - prevention

P260 Do not breathe dusts or mists.  
P280 Wear eye protection/face protection.

##### Precautionary statements - response

P303+P361+P353 IF ON SKIN (or hair): Remove/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.  
P390 Absorb spillage to prevent material damage.

##### Precautionary statements - disposal

P501 Dispose of contents/container to industrial combustion plant.

#### Labelling of packages where the contents do not exceed 125 ml

Signal word: **Danger**

Symbol(s)



H313 May be harmful in contact with skin.  
H314 Causes severe skin burns and eye damage.

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|                |  |
|----------------|--|
| P260           | Do not breathe dusts or mists.   |
| P280           | Wear eye protection/face protection.   |
| P303+P361+P353 | IF ON SKIN (or hair): Remove/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. |
| P501           | Dispose of contents/container to industrial combustion plant.  |

### 2.3 Other hazards

There is no additional information.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

|                             |                                |
|-----------------------------|--------------------------------|
| Name of substance           | ortho-Phosphoric acid          |
| Index No                    | 015-011-00-6                   |
| Registration number (REACH) | 01-2119485924-24-xxxx          |
| EC number                   | 231-633-2                      |
| CAS number                  | 7664-38-2                      |
| Molecular formula           | H <sub>3</sub> PO <sub>4</sub> |
| Molar mass                  | 98 g/mol                       |

## SECTION 4: First aid measures

### 4.1 Description of first aid measures



#### General notes

Take off immediately all contaminated clothing. Self-protection of the first aider.

#### Following inhalation

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

#### Following skin contact

After contact with skin, wash immediately with plenty of water. Immediate medical treatment required because corrosive injuries that are not treated are hard to cure.

#### Following eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye.

#### Following ingestion

Rinse mouth immediately and drink plenty of water. Call a physician immediately. If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects).

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

Following inhalation: Cough, pain, choking, and breathing difficulties,  
Following skin contact: Causes severe burns, Causes poorly healing wounds,  
After eye contact: Risk of serious damage to eyes, Risk of blindness,  
After ingestion: Corrosion, Vomiting, Gastric perforation

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media



#### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings  
water spray, foam, dry extinguishing powder, carbon dioxide (CO<sub>2</sub>)

#### Unsuitable extinguishing media

water jet

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

Non-combustible. Vapours are heavier than air, spread along floors and form explosive mixtures with air.

#### Hazardous combustion products

In case of fire may be liberated: phosphorus oxides (P<sub>x</sub>O<sub>y</sub>)

### 5.3 Advice for firefighters

Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus. Wear full chemical protective clothing.

## SECTION 6: Accidental release measures

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



#### For non-emergency personnel

Use personal protective equipment as required. Avoid contact with skin, eyes and clothes. Do not breathe vapour/spray.

### 6.2 Environmental precautions

Keep away from drains, surface and ground water. The product is an acid. Before discharge into sewage plants the product normally needs to be neutralised.

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

#### Advices on how to contain a spill

Covering of drains.

#### Advices on how to clean up a spill

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

#### Other information relating to spills and releases

Place in appropriate containers for disposal.

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### 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

Handle and open container with care. Clear contaminated areas thoroughly.

#### 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

- **Ventilation requirements**

Use local and general ventilation.

- **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)

| Country | Name of agent                           | CAS No    | Notation | Identifier | TWA [ppm] | TWA [mg/m <sup>3</sup> ] | STEL [ppm] | STEL [mg/m <sup>3</sup> ] | Source |
|---------|---|-----------|----------|------------|-----------|--------------------------|------------|---------------------------|--------|
| AU      | phosphoric acid (ortho-phosphoric acid) | 7664-38-2 |          | WES        |           | 1                        |            | 3                         | WES    |

#### Notation

STEL Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

TWA Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

#### Relevant DNELs/DMELs/PNECs and other threshold levels

- **human health values**

| Endpoint | Threshold level     | Protection goal, route of exposure | Used in           | Exposure time           |
|----------|---------------------|------------------------------------|-------------------|-------------------------|
| DNEL     | 2 mg/m <sup>3</sup> | human, inhalatory                  | worker (industry) | acute - local effects   |
| DNEL     | 1 mg/m <sup>3</sup> | human, inhalatory                  | worker (industry) | chronic - local effects |

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### 8.2 Exposure controls

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

##### Eye/face protection



Use safety goggle with side protection. Wear face protection.

##### Skin protection



##### • hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. 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.

##### • type of material

NBR (Nitrile rubber)

##### • material thickness

>0,3 mm

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

>480 minutes (permeation: level 6)

##### • 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. P2 (filters at least 94 % of airborne particles, colour code: White).

##### 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

#### Appearance

|                 |                   |
|-----------------|-------------------|
| Physical state  | liquid (viscous)  |
| Colour          | colourless        |
| Odour           | odourless         |
| Odour threshold | No data available |

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### Other physical and chemical parameters

|   |  |
|---|--|
| pH (value)                              | <0.5 (water: 100 g/l, 20 °C)                   |
| Melting point/freezing point            | 21 °C  |
| Initial boiling point and boiling range | 158 °C at 1,013 hPa                            |
| Flash point                             | not determined                                 |
| Evaporation rate                        | no data available                              |
| Flammability (solid, gas)               | not relevant (fluid)                           |
| <u>Explosive limits</u>                 |  |
| • lower explosion limit (LEL)           | this information is not available              |
| • upper explosion limit (UEL)           | this information is not available              |
| Explosion limits of dust clouds         | not relevant                                   |
| Vapour pressure                         | 2 hPa at 20 °C                                 |
| Density                                 | 1.71 g/cm <sup>3</sup>                         |
| Vapour density                          | 3.4 (air = 1)                                  |
| Bulk density                            | Not applicable                                 |
| Relative density                        | Information on this property is not available. |
| <u>Solubility(ies)</u>                  |  |
| Water solubility                        | miscible in any proportion                     |
| <u>Partition coefficient</u>            |  |
| n-octanol/water (log KOW)               | This information is not available.             |
| Auto-ignition temperature               | Information on this property is not available. |
| Decomposition temperature               | no data available                              |
| Viscosity                               |  |
| • kinematic viscosity                   | 30.5 mm <sup>2</sup> /s at 20 °C               |
| • dynamic viscosity                     | 52.16 cP                                       |
| Explosive properties                    | Shall not be classified as explosive           |
| Oxidising properties                    | none   |

### 9.2 Other information

There is no additional information.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Substance or mixture corrosive to metals.

### 10.2 Chemical stability

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

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### 10.3 Possibility of hazardous reactions

Violent reaction with: Alkalis

Dangerous/dangerous reactions with: Metals (due to the release of hydrogen in an acid/alkaline medium)

=> Explosive properties

### 10.4 Conditions to avoid

Humidity.

### 10.5 Incompatible materials

different metals

#### Release of flammable materials with

metals (due to the release of hydrogen in an acid/alkaline medium)

### 10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

| Exposure route | Endpoint | Value       | Species | Source |
|----------------|----------|-------------|---------|--------|
| oral           | LD50     | 1,530 mg/kg | rat     | TOXNET |
| dermal         | LD50     | 2,740 mg/kg | rabbit  | TOXNET |

#### Skin corrosion/irritation

Causes severe burns.

#### Serious eye damage/eye irritation

Causes serious eye damage.

#### Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

#### Summary of evaluation of the CMR properties

Shall not be classified as germ cell mutagenic, carcinogenic nor 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**

vomiting, If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects)

- **If in eyes**

Causes serious eye damage - risk of blindness



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- **If inhaled**

cough, pain, choking, and breathing difficulties

- **If on skin**

causes severe burns

- **Delayed and immediate effects as well as chronic effects from short and long-term exposure**

Causes poorly healing wounds.

### Other information

None

## SECTION 12: Ecological information

### 12.1 Toxicity

acc. to 1272/2008/EC: Shall not be classified as hazardous to the aquatic environment.

#### Aquatic toxicity (acute)

| Endpoint | Value     | Species               | Source | Exposure time |
|----------|-----------|-----------------------|--------|---------------|
| EC50     | >100 mg/l | aquatic invertebrates | ECHA   | 48 h          |
| ErC50    | >100 mg/l | algae                 | ECHA   | 72 h          |

#### Aquatic toxicity (chronic)

| Endpoint | Value       | Species        | Source | Exposure time |
|----------|-------------|----------------|--------|---------------|
| EC50     | >1,000 mg/l | microorganisms | ECHA   | 3 h           |
| NOEC     | 1,000 mg/l  | microorganisms | ECHA   | 3 h           |

### 12.2 Process of degradability

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

### 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 Other adverse effects

Data are not available.

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### 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

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used.

##### Sewage disposal-relevant information

Do not empty into drains.

##### Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used.


#### 13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

#### 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.

### SECTION 14: Transport information

|             |   |   |
|-------------|---|---|
| <b>14.1</b> | UN number   | <b>1805</b>   |
| <b>14.2</b> | UN proper shipping name   | <b>PHOSPHORIC ACID, SOLUTION</b>  |
|             | Hazardous ingredients   | Ortho-Phosphoric acid   |
| <b>14.3</b> | Transport hazard class(es)  |  |
|             | Class   | 8 (corrosive substances)  |
| <b>14.4</b> | Packing group   | III (substance presenting low danger)   |
| <b>14.5</b> | Environmental hazards   | none (non-environmentally hazardous acc. to the dangerous goods regulations)        |
| <b>14.6</b> | <b>Special precautions for user</b>   |   |
|             | Provisions for dangerous goods (ADR) should be complied within the premises.          |   |
| <b>14.7</b> | <b>Transport in bulk according to Annex II of MARPOL and the IBC Code</b>             |   |
|             | The cargo is not intended to be carried in bulk.                                      |   |
| <b>14.8</b> | <b>Information for each of the UN Model Regulations</b>                               |   |
|             | • <b>Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)</b> |   |
|             | UN number   | 1805  |

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|                                       |  |
|---------------------------------------|--|
| Proper shipping name                  | PHOSPHORIC ACID, SOLUTION                      |
| Particulars in the transport document | UN1805, PHOSPHORIC ACID, SOLUTION, 8, III, (E) |
| Class                                 | 8  |
| Classification code                   | C1   |
| Packing group                         | III  |
| Danger label(s)                       | 8  |



|                               |     |
|-------------------------------|-----|
| Excepted quantities (EQ)      | E1  |
| Limited quantities (LQ)       | 5 L |
| Transport category (TC)       | 3   |
| Tunnel restriction code (TRC) | E   |
| Hazard identification No      | 80  |
| <b>Emergency Action Code</b>  | 2R  |

### • International Maritime Dangerous Goods Code (IMDG)

|  |   |
|--|---|
| UN number                                | 1805                                      |
| Proper shipping name                     | PHOSPHORIC ACID, SOLUTION                 |
| Particulars in the shipper's declaration | UN1805, PHOSPHORIC ACID, SOLUTION, 8, III |
| Class                                    | 8   |
| Marine pollutant                         | -   |
| Packing group                            | III                                       |
| Danger label(s)                          | 8   |



|                          |           |
|--------------------------|-----------|
| Special provisions (SP)  | 223       |
| Excepted quantities (EQ) | E1        |
| Limited quantities (LQ)  | 5 L       |
| EmS                      | F-A, S-B  |
| Stowage category         | A         |
| Segregation group        | 1 - Acids |

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

|  |   |
|--|---|
| UN number                                | 1805                                      |
| Proper shipping name                     | Phosphoric acid, solution                 |
| Particulars in the shipper's declaration | UN1805, Phosphoric acid, solution, 8, III |
| Class                                    | 8   |

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|   |     |
|---|-----|
| Packing group   | III |
| Danger label(s)   | 8   |
|  |     |
| Special provisions (SP)   | A3  |
| Excepted quantities (EQ)  | E1  |
| Limited quantities (LQ)   | 1 L |

## SECTION 15: Regulatory information

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

#### National inventories

Substance is listed in the following national inventories:

| Country | National inventories | Status              |
|---------|----------------------|---------------------|
| AU      | AICS                 | substance is listed |
| CA      | DSL                  | substance is listed |
| CN      | IECSC                | substance is listed |
| EU      | ECSI                 | substance is listed |
| EU      | REACH Reg.           | substance is listed |
| JP      | CSCL-ENCS            | substance is listed |
| KR      | KECI                 | substance is listed |
| MX      | INSQ                 | substance is listed |
| NZ      | NZIoC                | substance is listed |
| PH      | PICCS                | substance is listed |
| TR      | CICR                 | substance is listed |
| TW      | TCSI                 | substance is listed |
| US      | TSCA                 | substance is 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               |
| REACH Reg. | REACH registered substances   |
| TCSI       | Taiwan Chemical Substance Inventory                                     |
| TSCA       | Toxic Substance Control Act   |

### 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance.

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### SECTION 16: Other information

#### Abbreviations and acronyms

| Abbr.    | Descriptions of used abbreviations  |
|----------|---|
| ADN      | Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways) |
| ADR      | Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)                                       |
| CAS      | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)  |
| CMR      | Carcinogenic, Mutagenic or toxic for Reproduction   |
| DGR      | Dangerous Goods Regulations (see IATA/DGR)  |
| DMEL     | Derived Minimal Effect Level  |
| DNEL     | Derived No-Effect Level   |
| EINECS   | European Inventory of Existing Commercial Chemical Substances   |
| ELINCS   | European List of Notified Chemical Substances   |
| EmS      | Emergency Schedule  |
| 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   |
| IMDG     | International Maritime Dangerous Goods Code   |
| index No | the Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008  |
| 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   |
| ppm      | parts per million   |
| REACH    | Registration, Evaluation, Authorisation and Restriction of Chemicals  |
| RID      | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)   |
| STEL     | short-term exposure limit   |
| TWA      | time-weighted average   |
| vPvB     | very Persistent and very Bioaccumulative  |
| WES      | Safe Work Australia: Workplace exposure standards for airborne conatminants   |

#### Key literature references and sources for data

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

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

| Code | Text                                    |
|------|---|
| H290 | may be corrosive to metals              |
| H313 | may be harmful in contact with skin     |
| H314 | causes severe skin burns and eye damage |
| H318 | causes serious eye damage               |

### Disclaimer

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.