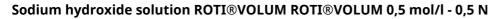
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#### article number: **CN57** Version: **GHS 1.0 en**

date of compilation: 2022-12-09

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

### 1.1 Product identifier

Identification of the substance

Article number

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

Relevant identified uses:

Uses advised against:

Laboratory chemical Laboratory and analytical use

ROTI®VOLUM 0,5 mol/l - 0,5 N

Do not use for squirting or spraying. Do not use for products which come into direct contact with the skin. Do not use for products which come into contact with foodstuffs. Do not use for private purposes (household).

Sodium hydroxide solution ROTI®VOLUM

#### **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 :Department Health, Safety and Environment sheet:

#### e-mail (competent person):

### sicherheit@carlroth.de

#### 1.4 Emergency telephone number

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

# **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

#### Classification acc. to GHS

| Section | tion Hazard class                        |    | Hazard class and category | Hazard<br>statement |
|---------|--|----|---------------------------|---------------------|
| 2.16    | Substance or mixture corrosive to metals | 1  | Met. Corr. 1              | H290                |
| 3.2     | Skin corrosion/irritation                | 1A | Skin Corr. 1A             | H314                |
| 3.3     | Serious eye damage/eye irritation        | 1  | Eye Dam. 1                | H318                |

For full text of abbreviations: see SECTION 16

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#### Sodium hydroxide solution ROTI®VOLUM ROTI®VOLUM 0,5 mol/l - 0,5 N

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#### The most important adverse physicochemical, human health and environmental effects

Skin corrosion produces an irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis.

#### 2.2 Label elements

Labelling

| Signal word D | anger |
|---------------|-------|
|---------------|-------|

Pictograms

GHS05



#### **Hazard statements**

| H290 | May be corrosive to metals              |
|------|---|
| 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): Take off immediately all contaminated clothing. Rinse skin with water or shower                           |
|----------------|---|
|                | 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

#### Hazardous ingredients for labelling: Sodium hydroxide

#### 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



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### Sodium hydroxide solution ROTI®VOLUM ROTI®VOLUM 0,5 mol/l - 0,5 N

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| Description of the mixture |                     |         |  |            |       |  |  |  |
|----------------------------|---------------------|---------|--|------------|-------|--|--|--|
| Name of sub-<br>stance     | Identifier          | Wt%     | Classification acc. to<br>GHS                                    | Pictograms | Notes |  |  |  |
| Sodium hydroxide           | CAS No<br>1310-73-2 | 25 - 35 | Met. Corr. 1 / H290<br>Skin Corr. 1A / H314<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 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

Corrosion, Cough, Breathing difficulties, Gastric perforation, Risk of serious damage to eyes, Risk of blindness

# 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

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#### Sodium hydroxide solution ROTI®VOLUM ROTI®VOLUM 0,5 mol/l - 0,5 N

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# **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. 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.

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

#### Advice on how to contain a spill

Covering of drains.

#### 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

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. Keep only in original container.

#### Incompatible substances or mixtures

Observe hints for combined storage.

Consideration of other advice:

#### Specific designs for storage rooms or vessels

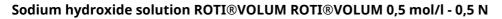
Recommended storage temperature: 15 - 25 °C

#### 7.3 Specific end use(s)

No information available.



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# **SECTION 8: Exposure controls/personal protection**

#### 8.1 **Control parameters**

#### National limit values

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

| Cou<br>ntr<br>y | Name of agent    | CAS No        | Identi-<br>fier | TW<br>A<br>[pp<br>m] | TWA<br>[mg/<br>m³] | STE<br>L<br>[pp<br>m] | STEL<br>[mg/<br>m³] | Ceil<br>ing-<br>C<br>[pp<br>m] | Ceil-<br>ing-C<br>[mg/<br>m³] | Nota-<br>tion | Source |
|-----------------|------------------|---------------|-----------------|----------------------|--------------------|-----------------------|---------------------|--------------------------------|-------------------------------|---------------|--------|
| AU              | sodium hydroxide | 1310-73-<br>2 | WES             |                      |                    |                       |                     |                                | 2                             |               | WES    |

#### Notation

TWA

Ceiling-C Ceiling value is a limit value above which exposure should not occur

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) 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)

#### 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. 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

≥0,3 mm

#### breakthrough times of the glove material

>480 minutes (permeation: level 6)

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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. 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

| Physical state   | liquid   |
|--|--|
| Colour   | colourless                                       |
| Odour  | odourless  |
| Melting point/freezing point                             | not determined                                   |
| Boiling point or initial boiling point and boiling range | 100 °C   |
| 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)   | >13 (20 °C)                                      |
| Kinematic viscosity                                      | not determined                                   |
| Solubility(ies)  |  |
| Water solubility   | miscible in any proportion                       |
| Partition coefficient                                    |  |
| Partition coefficient n-octanol/water (log value):       | not relevant (inorganic)                         |
|  |  |
| Vapour pressure  | not determined                                   |
| Density and/or relative density                          |  |
| Density  | 1.2 – 1.3 <sup>g</sup> / <sub>cm³</sub> 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                            |
| Other information                                   |                                 |
| Information with regard to physical hazard classes: |                                 |
| Corrosive to metals                                 | category 1: corrosive to metals |
| Other safety characteristics:                       |                                 |
| Miscibility   | completely miscible with water  |
| CTION 10: Stability and reactivity                  |                                 |

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

9.2

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.

#### **10.3** Possibility of hazardous reactions

#### Exothermic reaction with: Acids,

**Violent reaction with:** Aluminium, Metals, Ammonium compounds, Nitriles, Nitro compound, Organic substances, Phenols, Strong acid

#### 10.4 Conditions to avoid

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

#### 10.5 Incompatible materials

different plastics, metals, aluminium, zinc, tin

#### Release of flammable materials with

Metals, Light 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

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.





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#### Sodium hydroxide solution ROTI®VOLUM ROTI®VOLUM 0,5 mol/l - 0,5 N

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### Skin corrosion/irritation

Causes severe skin burns and eye damage.

### Serious eye damage/eye irritation

Causes serious eye damage.

### 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

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

### • If in eyes

causes burns, Causes serious eye damage, risk of blindness

#### • If inhaled

cough, pain, choking, and breathing difficulties, irritant effects, pulmonary oedema

#### • If on skin

causes severe burns, causes poorly healing wounds

#### Other information

Other adverse effects: Circulatory collapse

#### 11.2 Endocrine disrupting properties

None of the ingredients are listed.

### **SECTION 12: Ecological information**

12.1 Toxicity

Harmful to aquatic life.

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### Sodium hydroxide solution ROTI®VOLUM ROTI®VOLUM 0,5 mol/l - 0,5 N

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| Aquatic toxicity (acute) of components of the mixture |           |                  |                                   |                       |      |  |  |  |
|---|-----------|------------------|-----------------------------------|-----------------------|------|--|--|--|
| Name of sub-<br>stance                                | Species   | Exposure<br>time |                                   |                       |      |  |  |  |
| Sodium hydroxide                                      | 1310-73-2 | LC50             | <180 <sup>mg</sup> / <sub>l</sub> | fish                  | 96 h |  |  |  |
| Sodium hydroxide                                      | 1310-73-2 | EC50             | 40.4 <sup>mg</sup> / <sub>l</sub> | aquatic invertebrates | 48 h |  |  |  |

#### Aquatic toxicity (chronic) of components of the mixture

| Name of sub-<br>stance | CAS No    | Endpoint | Value                           | Species        | Exposure<br>time |
|------------------------|-----------|----------|---------------------------------|----------------|------------------|
| Sodium hydroxide       | 1310-73-2 | EC50     | 22 <sup>mg</sup> / <sub>l</sub> | microorganisms | 15 min           |

#### **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.

#### Relevant provisions relating to waste(Basel Convention)

#### Properties of waste which render it hazardous

H8 Corrosives

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#### 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**

| 14.1 | UN number  |  |
|------|--|--|
|      | UN RTDG  | UN<br>1824   |
|      | IMDG-Code  | UN 1824  |
|      | ICAO-TI  | UN 1824  |
| 14.2 | UN proper shipping name  |  |
|      | UN RTDG  | SODIUM HYDROXIDE SOLUTION  |
|      | IMDG-Code  | SODIUM HYDROXIDE SOLUTION  |
|      | ICAO-TI  | Sodium hydroxide solution  |
| 14.3 | Transport hazard class(es)   |  |
|      | UN RTDG  | 8  |
|      | IMDG-Code  | 8  |
|      | ICAO-TI  | 8  |
| 14.4 | Packing group  |  |
|      | UN RTDG  | II   |
|      | IMDG-Code  | II   |
|      | ICAO-TI  | II   |
| 14.5 | Environmental hazards  | non-environmentally hazardous acc. to the dan-<br>gerous goods regulations |
| 14.6 | Special precautions for user   |  |
|      | There is no additional information.                                      |  |
| 14.7 | Transport in bulk according to IMO instruments                           | 5  |
|      | The cargo is not intended to be carried in bulk.                         |  |
| 14.8 | Information for each of the UN Model Regulation                          | ons  |
|      | Transport informationNational regulationsAdditional information(UN RTDG) |  |
|      | UN number  | 1824   |
|      | Class  | 8  |
|      | Packing group  | II   |
|      | Danger label(s)  | 8  |
|      |  |  |
|      | Special provisions (SP)  | -<br>UN RTDG   |

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| Excepted quantities (EQ)                        | E2<br>UN RTDG                            |
|---|--|
| Limited quantities (LQ)                         | 1 L<br>UN RTDG                           |
| International Maritime Dangerous Goods Code     | (IMDG) - Additional information          |
| Proper shipping name                            | SODIUM HYDROXIDE SOLUTION                |
| Particulars in the shipper's declaration        | UN1824, SODIUM HYDROXIDE SOLUTION, 8, II |
| Marine pollutant                                | -  |
| Danger label(s)                                 | 8  |
|   |  |
| Special provisions (SP)                         | -  |
| Excepted quantities (EQ)                        | E2                                       |
| Limited quantities (LQ)                         | 1 L                                      |
| EmS   | F-A, S-B                                 |
| Stowage category                                | A  |
| Segregation group                               | 18 - Alkalis                             |
| International Civil Aviation Organization (ICAO | -IATA/DGR) - Additional information      |
| Proper shipping name                            | Sodium hydroxide solution                |
| Particulars in the shipper's declaration        | UN1824, Sodium hydroxide solution, 8, II |
| Danger label(s)                                 | 8  |
|   |  |
| Special provisions (SP)                         | A3                                       |
| Excepted quantities (EQ)                        | E2                                       |
| Limited quantities (LQ)                         | 0,5 L                                    |

# **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.



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### Sodium hydroxide solution ROTI®VOLUM ROTI®VOLUM 0,5 mol/l - 0,5 N

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| National inventories |            |                                |
|----------------------|------------|--------------------------------|
| Country              | Inventory  | Status                         |
| AU                   | AIIC       | all ingredients are listed     |
| CA                   | DSL        | all ingredients are listed     |
| CN                   | IECSC      | all ingredients are listed     |
| EU                   | ECSI       | all ingredients are listed     |
| EU                   | REACH Reg. | all ingredients are listed     |
| JP                   | CSCL-ENCS  | all ingredients are listed     |
| KR                   | KECI       | all ingredients are listed     |
| MX                   | INSQ       | 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       | all ingredients are listed     |

#### Legend

| Legena     |   |
|------------|---|
| AIIC       | Australian Inventory of Industrial Chemicals                            |
| 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)       |
| REACH Reg. | REACH registered substances   |
| 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.

## **SECTION 16: Other information**

#### Abbreviations and acronyms

| Abbr.     | Descriptions of used abbreviations   |
|-----------|--|
| CAS       | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)   |
| Ceiling-C | Ceiling value  |
| DGR       | Dangerous Goods Regulations (see IATA/DGR)   |
| EC50      | Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval |
| 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  |



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### Sodium hydroxide solution ROTI®VOLUM ROTI®VOLUM 0,5 mol/l - 0,5 N

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| Abbr.       | Descriptions of used abbreviations  |
|-------------|---|
| Eye Irrit.  | Irritant to the eye   |
| GHS         | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Na-<br>tions                                    |
| 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   |
| 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 |
| Met. Corr.  | Substance or mixture corrosive to metals  |
| NLP         | No-Longer Polymer   |
| PBT         | Persistent, Bioaccumulative and Toxic   |
| ppm         | Parts per million   |
| Skin Corr.  | Corrosive to skin   |
| Skin Irrit. | Irritant to skin  |
| STEL        | Short-term exposure limit   |
| TWA         | Time-weighted average   |
| UN RTDG     | UN Recommendations on the Transport of Dangerous Good   |
| vPvB        | Very Persistent and very Bioaccumulative  |
| WES         | Safe Work Australia: Workplace exposure standards for airborne contaminants   |

#### 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                                     |
|------|--|
| H290 | May be corrosive to metals.              |
| H314 | Causes severe skin burns and eye damage. |
| H318 | Causes serious eye damage.               |

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### Sodium hydroxide solution ROTI®VOLUM ROTI®VOLUM 0,5 mol/l - 0,5 N

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#### Disclaimer

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