

# Safety data sheet Safety data sheet

acc. to Safe Work Australia - Code of Practice



## Potassium hydroxide ≥85 %, Ph.Eur., pellets

article number: **P747**  
Version: **GHS 4.0 en**  
Replaces version of: 2022-04-26  
Version: (GHS 3)

date of compilation: 2018-07-25  
Revision: 2024-03-02

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

### 1.1 Product identifier

Identification of the substance **Potassium hydroxide ≥85 %, Ph.Eur., pellets**  
Article number P747  
CAS number 1310-58-3

### 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 squirting or spraying. Do not use for products which come into direct contact with the skin. Do not use for private purposes (household). Food, drink and animal feedingstuffs.

### 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 |
|---------|--|----------|---------------------------|------------------|
| 2.16    | Substance or mixture corrosive to metals | 1        | Met. Corr. 1              | H290             |
| 3.10    | Acute toxicity (oral)                    | 4        | Acute Tox. 4              | H302             |
| 3.2     | Skin corrosion/irritation                | 1        | Skin Corr. 1              | H314             |
| 3.3     | Serious eye damage/eye irritation        | 1        | Eye Dam. 1                | H318             |

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For full text of abbreviations: see SECTION 16

### 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

**Danger**

#### Pictograms

GHS05, GHS07



#### Hazard statements

|      |   |
|------|---|
| H290 | May be corrosive to metals              |
| H302 | Harmful if swallowed                    |
| 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                           |
| 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 |
|------|--|

## 2.3 Other hazards

### Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

### Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of  $\geq 0,1\%$ .

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## SECTION 3: Composition/information on ingredients

### 3.1 Substances

|                   |                     |
|-------------------|---------------------|
| Name of substance | Potassium hydroxide |
| Molecular formula | HKO                 |
| Molar mass        | 56.1 g/mol          |
| CAS No            | 1310-58-3           |

## SECTION 4: First aid measures

### 4.1 Description of first aid measures



#### General notes

Take off immediately all contaminated clothing.

#### 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. Rinse mouth with water (only if the person is conscious). 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

Vomiting, Corrosion, 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, foam, alcohol resistant foam, dry extinguishing powder, ABC-powder

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## 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. 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 dust.

### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

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

#### Advice on how to contain a spill

Covering of drains. Take up mechanically.

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

Take up mechanically. Control of dust.

#### 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. Avoid dust formation. 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

Store in a dry place. Keep only in original container. Hygroscopic solid.

#### Incompatible substances or mixtures

Observe hints for combined storage.

#### Protect against external exposure, such as

humidity

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### 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)

| Country | Name of agent       | CAS No    | Identifier | TWA [mg/m <sup>3</sup> ] | STEL [mg/m <sup>3</sup> ] | Ceiling-C [mg/m <sup>3</sup> ] | Notation | Source |
|---------|---------------------|-----------|------------|--------------------------|---------------------------|--------------------------------|----------|--------|
| AU      | potassium hydroxide | 1310-58-3 | WES        |                          |                           | 2                              |          | WES    |

#### Notation

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

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)

#### Human health values

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

### 8.2 Exposure controls

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

##### Eye/face protection



Use safety goggle with side protection. Wear face protection.

##### Skin protection



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### • 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)

### • other protection measures

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

### Respiratory protection



Respiratory protection necessary at: Dust formation. Particulate filter device (EN 143). 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   | solid                        |
| Form   | acc. to product description  |
| Colour   | white                        |
| Odour  | odourless                    |
| Melting point/freezing point                             | 406 °C (ECHA)                |
| Boiling point or initial boiling point and boiling range | 1,327 °C at 1,013 hPa (ECHA) |
| Flammability   | non-combustible              |
| Lower and upper explosion limit                          | not determined               |
| Flash point  | not applicable               |
| Auto-ignition temperature                                | not determined               |
| Decomposition temperature                                | not relevant                 |

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|  |  |
|--|--|
| pH (value)   | 14 (in aqueous solution: 50 g/l, 20 °C)        |
| Kinematic viscosity                                | not relevant                                   |
| <u>Solubility(ies)</u>                             |  |
| Water solubility                                   | 1,120 g/l at 20 °C                             |
| <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  | 2.04 g/cm <sup>3</sup> at 20 °C (ECHA)         |
| Relative vapour density                            | Information on this property is not available. |
| Particle characteristics                           | No data available.                             |
| <u>Other safety parameters</u>                     |  |
| Oxidising properties                               | none   |

**9.2 Other information**

Information with regard to physical hazard classes:

|                               |                                     |
|-------------------------------|-------------------------------------|
| Corrosive to metals           | category 1: corrosive to metals     |
| Other safety characteristics: | There is no additional information. |

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

It's a reactive substance. Substance or mixture corrosive to metals.

### 10.2 Chemical stability

Hygroscopic solid.

### 10.3 Possibility of hazardous reactions

**Danger of explosion:** Tetrahydrofurane, Organic peroxides, Fluorine, Chlorine, Phosphorus, Magnesium, Nitro compound,

**Violent reaction with:** Organic acids, Mineral acids, Sulphuric acid, Aldehydes, Alcohols, Aluminium, Azides

### 10.4 Conditions to avoid

Protect from moisture.

### 10.5 Incompatible materials

different metals

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## 10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Classification acc. to GHS

#### Acute toxicity

Harmful if swallowed.

| Acute toxicity |          |           |         |        |        |
|----------------|----------|-----------|---------|--------|--------|
| Exposure route | Endpoint | Value     | Species | Method | Source |
| oral           | LD50     | 333 mg/kg | rat     |        | ECHA   |

#### 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

Inhalation of dust may cause irritation of the respiratory system, cough, pain, choking, and breathing difficulties

##### • If on skin



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causes severe burns, causes poorly healing wounds

### • Other information

none

### 11.2 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of  $\geq 0,1\%$ .

## SECTION 12: Ecological information

### 12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

### 12.2 Persistence and 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

Does not contain an endocrine disruptor (ED) at a concentration of  $\geq 0,1\%$ .

### 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. Handle contaminated packages in the same way as the substance itself. Completely emptied packages can be recycled.

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

##### Properties of waste which render it hazardous

**H8** Corrosives

### 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. Non-con-

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minated packages may be recycled.

## SECTION 14: Transport information

### 14.1 UN number

|           |         |
|-----------|---------|
| UN RTDG   | UN 1813 |
| IMDG-Code | UN 1813 |
| ICAO-TI   | UN 1813 |

### 14.2 UN proper shipping name

|           |                            |
|-----------|----------------------------|
| UN RTDG   | POTASSIUM HYDROXIDE, SOLID |
| IMDG-Code | POTASSIUM HYDROXIDE, SOLID |
| ICAO-TI   | Potassium hydroxide, solid |

### 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 dangerous goods regulations

### 14.6 Special precautions for user

There is no additional information.

### 14.7 Transport in bulk according to IMO instruments

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       | 1813 |
| Class           | 8    |
| Packing group   | II   |
| Danger label(s) | 8    |



|                          |               |
|--------------------------|---------------|
| Special provisions (SP)  | -<br>UN RTDG  |
| Excepted quantities (EQ) | E2<br>UN RTDG |



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|   |   |
|---|---|
| <b>Limited quantities (LQ)</b>  | 1 kg<br>UN RTDG                           |
| <b>Emergency Action Code</b>  | 2W  |
| <b>International Maritime Dangerous Goods Code (IMDG) - Additional information</b>        |   |
| Proper shipping name  | POTASSIUM HYDROXIDE, SOLID                |
| Particulars in the shipper's declaration  | UN1813, POTASSIUM HYDROXIDE, SOLID, 8, II |
| Marine pollutant  | -   |
| Danger label(s)   | 8   |
|          |   |
| Special provisions (SP)   | -   |
| Excepted quantities (EQ)  | E2  |
| Limited quantities (LQ)   | 1 kg                                      |
| EmS   | F-A, S-B                                  |
| Stowage category  | A   |
| Segregation group   | 18 - Alkalis                              |
| <b>International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information</b> |   |
| Proper shipping name  | Potassium hydroxide, solid                |
| Particulars in the shipper's declaration  | UN1813, Potassium hydroxide, solid, 8, II |
| Danger label(s)   | 8   |
|        |   |
| Excepted quantities (EQ)  | E2  |
| Limited quantities (LQ)   | 5 kg                                      |

## 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)

Substance is listed.

#### 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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### National inventories

| Country | Inventory  | Status                       |
|---------|------------|------------------------------|
| AU      | AIIC       | 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 (ACTIVE) |
| VN      | NCI        | substance is listed          |

#### Legend

|            |   |
|------------|---|
| 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                                      |
| NCI        | National Chemical 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

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

## SECTION 16: Other information

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

| Section | Former entry (text/value) | Actual entry (text/value)   | Safety-relevant |
|---------|---------------------------|---|-----------------|
| 2.1     |                           | Classification acc. to GHS:<br>change in the listing (table)  | yes             |
| 2.3     |                           | Endocrine disrupting properties:<br>Does not contain an endocrine disruptor (ED) at<br>a concentration of ≥ 0,1%. | yes             |
| 14.8    |                           | Emergency Action Code:<br>2W  | yes             |
| 15.1    |                           | National inventories:<br>change in the listing (table)  | yes             |

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### 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)   |
| DNEL      | Derived No-Effect Level  |
| ED        | Endocrine disruptor  |
| 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  |
| 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  |
| LD50      | Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval |
| NLP       | No-Longer Polymer  |
| PBT       | Persistent, Bioaccumulative and Toxic  |
| 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).

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

| Code | Text                                     |
|------|--|
| H290 | May be corrosive to metals.              |
| H302 | Harmful if swallowed.                    |
| H314 | Causes severe skin burns and eye damage. |
| H318 | Causes serious eye damage.               |

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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.