

Material Safety Data Sheet

According to 91/155 EC

Printing date 01.08.2003

Reviewed on 26.05.2003

1 Identification of the substance/preparation and of the company/undertaking

- **Product details**
- **Trade name:** potassium hydroxide, moulded pieces
- **Application of the substance / the preparation** Chemical intermediate
- **Manufacturer/Supplier:**
QUADRIMEX 2 Chemin de l'île de conge 94500 Champigny sur Marne
TEL : 33 1 45 16 12 00
- **Further information obtainable from:** QUADRIMEX CHIMIE - LAB DEPT TEL : 33 4 90 78 70 79

2 Composition/information on ingredients

- **Chemical characterization:**
- **CAS No. Description**
1310-58-3 potassium hydroxide
- **Identification number(s)**
- **EINECS Number:** 215-181-3
- **EU Number:** 019-002-00-8

3 Hazards identification

- **Hazard description:**



C Corrosive

- **Information concerning particular hazards for human and environment:**
R 22 Harmful if swallowed.
R 35 Causes severe burns.

4 First-aid measures

- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** Drink plenty of water and provide fresh air. Call for a doctor immediately.

5 Fire-fighting measures

- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**
Use neutralizing agent.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.

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7 Handling and storage

- **Handling:**
- **Information for safe handling:** Thorough dedusting.
- **Information about fire - and explosion protection:** No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace:

1310-58-3 potassium hydroxide

OES | Short-term value: 2 mg/m³

- **Additional information:** The lists valid during the making were used as basis.

- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
- **Respiratory protection:** Filter P3
- **Protection of hands:**



Protective gloves

- **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**



Tightly sealed goggles

9 Physical and chemical properties

General Information

| | |
|----------------|-----------|
| Form: | Solid |
| Colour: | White |
| Odour: | Odourless |

- **Change in condition**
Melting point/Melting range: 360°C
Boiling point/Boiling range: 1327°C

- **Flash point:** Not applicable.

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- | | |
|--|---|
| · Flammability (solid, gaseous): | Product is not flammable. |
| · Danger of explosion: | Product does not present an explosion hazard. |
| · Vapour pressure at 20°C: | 0 hPa |
| · Density at 20°C: | 2.04 g/cm ³ |
| · Solubility in / Miscibility with water at 20°C: | 1120 g/l |

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Materials to be avoided:** Aluminium, Zinc.. all reducing metals
- **Dangerous reactions** Violent reaction with water at higher temperatures.
- **Dangerous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Acute toxicity:**

- **LD/LC50 values relevant for classification:**

| | | |
|------|------|-----------------|
| Oral | LD50 | 365 mg/kg (rat) |
|------|------|-----------------|

- **Primary irritant effect:**

- **on the skin:** Strong caustic effect on skin and mucous membranes.

- **on the eye:** Strong caustic effect.

- **Sensitization:** No sensitizing effects known.

- **Additional toxicological information:**

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

12 Ecological information

- **General notes:**

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralized.

13 Disposal considerations

- **Product:**

- **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- **Uncleaned packaging:**

- **Recommendation:** Disposal must be made according to official regulations.

- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

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14 Transport information

· Land transport ADR/RID (cross-border)



- ADR/RID class: 8 Corrosive substances.
- Danger code (Kemler): 80
- UN-Number: 1813
- Packaging group: II
- Hazard label: 8
- Description of goods: 1813 POTASSIUM HYDROXIDE, SOLID

· Maritime transport IMDG:



- IMDG Class: 8
- UN Number: 1813
- Label: 8
- Packaging group: II
- EMS Number: F-A,S-B
- Proper shipping name: POTASSIUM HYDROXIDE, SOLID

· Air transport ICAO-TI and IATA-DGR:



- ICAO/IATA Class: 8
- UN/ID Number: 1813
- Label: 8
- Packaging group: II
- Proper shipping name: POTASSIUM HYDROXIDE, SOLID

15 Regulatory information

· Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

· Code letter and hazard designation of product:



C Corrosive

· Risk phrases:

- 22 Harmful if swallowed.
- 35 Causes severe burns.

· Safety phrases:

- 1/2 Keep locked up and out of the reach of children.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
- 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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- **National regulations:**
- **Waterhazard class:** Water hazard class 1 (Assessment by list): slightly hazardous for water.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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