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# Safety Data Sheet according to 1907/2006/EC, Article 31

Printing date 25.08.2007 Revision: 25.08.2007

## 1 Identification of substance:

· Product details:

Trade name: Sodium Hydroxide

· Article number: 0404

· Application of the substance / the preparation

Chemicals for synthesis Laboratory chemicals

· Manufacturer/Supplier:

Mallinckrodt Baker B.V

P.O.Box 1

7400 AA Deventer

The Netherlands

· Informing department:

Quality Systems & Regulatory Affairs E-mail: sjors.duteweert@covidien.com

· Emergency information:

Environment Health & Safety department

during normal opening times (8 am till 5.30 pm) tel: (+31)(0) 570 687500

# 2 Hazards identification

· Hazard designation:



C Corrosive

Information pertaining to particular dangers for man and environment R 35 Causes severe burns.

### 3 Composition/information on ingredients

- Chemical characterization:
- · CAS No. Designation:

1310-73-2 Sodium Hydroxide

- · Identification number(s):
- · EINECS Number: 215-185-5
- · EC Number: 011-002-00-6

#### 4 First aid measures

- · General information Instantly remove any clothing soiled by the product.
- · After inhalation In case of unconsciousness bring patient into stable side position for transport.
- · After skin contact

If skin irritation continues, consult a doctor.

Instantly wash with water and soap and rinse thoroughly.

- After eye contact Rinse opened eye for several minutes under running water. Then consult doctor.
- · After swallowing

Rinse out mouth and then drink plenty of water.

avoid vomiting (risk of perforation!).

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Drink copious amounts of water and provide fresh air. Instantly call for doctor.

## 5 Fire fighting measures

· Suitable extinguishing agents

CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

· Protective equipment: Wear self-contained breathing apparatus.

#### 6 Accidental release measures

- · Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.
- · Measures for environmental protection: No special measures required.
- · Measures for cleaning/collecting:

Use neutralizing agent.

Dispose of contaminated material as waste according to item 13.

Ensure adequate ventilation.

# 7 Handling and storage

- · Handling
- · Information for safe handling: Thorough dedusting.
- · Information about protection against explosions and fires: no special requirements
- · Storage
- · Requirements to be met by storerooms and containers: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep container tightly sealed.

### 8 Exposure controls and personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Components with critical values that require monitoring at the workplace:

#### 1310-73-2 Sodium Hydroxide

WEL () Short-term value: 2 mg/m³

- · Additional information: The lists that were valid during the compilation were used as basis.
- · Personal protective equipment
- · General protective and hygienic measures

Keep away from foodstuffs, beverages and food.

Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

· Breathing equipment:

Breathing protection recommended.

Filter P2.

Protection of hands:

Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation (Contd. on page 3)



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· Material of gloves

Butyl rubber, BR

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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

- · Eve protection: Tightly sealed safety glasses.
- · **Body protection:** Protective work clothing.

# 9 Physical and chemical properties:

· General Information

Form: harte Körner, Schuppen, B

Colour: White Smell: Odourless

· Change in condition

Melting point/Melting range: 319°C
Boiling point/Boiling range: 1390°C
Flash point: n/a

Inflammability (solid, gaseous) Product is not inflammable.
 Danger of explosion: Product is not explosive.

• Steam pressure at 800°C: 3.5 hPa • Density at 20°C 2.13 g/cm³

· Solubility in / Miscibility with

*Water at 20°C*: 420 g/l

### 10 Stability and reactivity

- · Thermal decomposition / conditions to be avoided: Heat, boiling teperatures.
- · Materials to be avoided:
- · Dangerous reactions No dangerous reactions known
- · Dangerous products of composition: No dangerous decomposition products known

### 11 Toxicological information

- · Acute toxicity:
- · LD/LC50 values that are relevant for classification:

Oral LD50 2000 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 effect 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.



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## 12 Ecological information:

· General notes:

Water hazard class (D) 1 (Assessment by list): slightly hazardous for water.

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

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

## 13 Disposal considerations

- · Product:
- · Recommendation

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

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleaning agent: Water, if necessary with cleaning agent.

## 14 Transport information

· Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)



· ADR/RID-GGVS/E Class: 8 Corrosive substances.

Kemler Number: 80
UN-Number: 1823
Packaging group: II
Label 8

• Designation of goods: 1823 SODIUM HYDROXIDE, SOLID

Limited quantities (LQ) LQ23
 Transport category 2
 Tunnel restriction code E

· Maritime transport IMDG/GGVSea:



· IMDG/GGVSea Class: 8
· UN Number: 1823
· Label 8
· Packaging group: II
· EMS Number: F-A,S-B

· Correct technical name: SODIUM HYDROXIDE, SOLID

· Air transport ICAO-TI and IATA-DGR:



· ICAO/IATA Class: 8



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Trade name: Sodium Hydroxide

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· UN/ID Number: 1823 · Label 8 · Packaging group: II

· Correct technical name: SODIUM HYDROXIDE, SOLID

# 15 Regulatory information

Designation according to EC guidelines:

The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)

· Code letter and hazard designation of product:

C Corrosive

· Risk phrases:

35 Causes severe burns.

· Safety phrases:

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

37/39 Wear suitable gloves and eye/face protection.

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

# 16 Other information:

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing data specification sheet: Quality Assurance Department
- · Contact: Sjors duteweert
- \* Data compared to the previous version altered.

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