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

Printing date 26.08.2007 Revision: 26.08.2007

### 1 Identification of substance:

· Product details:

· Trade name: Boric Acid · Article number: 4035

· 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:



Xi Irritant

Information pertaining to particular dangers for man and environment R 43 May cause sensitisation by skin contact.

### 3 Composition/information on ingredients

- · Chemical characterization:
- · CAS No. Designation:

10043-35-3 Boric Acid

- · Identification number(s):
- EINECS Number: 233-139-2

### 4 First aid measures

· After inhalation

Supply fresh air and call for doctor for safety reasons.

*In case of unconsciousness bring patient into stable side position for transport.* 

- · After skin contact Instantly wash with water and soap and rinse thoroughly.
- · After eye contact Rinse opened eye for several minutes under running water.
- · After swallowing

Rinse out mouth and then drink plenty of water.

Induce vomiting and call for medical help.

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### 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: Avoid causing dust.
- · Measures for environmental protection: No special measures required.
- · Measures for cleaning/collecting: No special measures required.

### 7 Handling and storage

- · Handling
- · Information for safe handling: Open and handle container with care.
- · Information about protection against explosions and fires: Keep breathing equipment ready.
- ·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: None.

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

Instantly remove any soiled and impregnated garments.

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

Store protective clothing separately.

- · Breathing equipment: 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

· 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:** Not required.
- · **Body protection:** Protective work clothing.



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#### 9 Physical and chemical properties:

· General Information

*Form:* Crystalline powder

Colour: White Smell: Odourless

· Change in condition

Melting point/Melting range: 169 (Zers.)°C Boiling point/Boiling range: 300°C

· Flash point: n/a

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

• Steam pressure at 20°C: 0 hPa • Density at 20°C 1.435 g/cm³

· Settled apparent density at 20°C 500 kg/m³

· Solubility in / Miscibility with

Water at 20°C: 300 g/l (-) pH-value (33 g/l) at 20°C: 3.8-4.8

### 10 Stability and reactivity

- · Thermal decomposition / conditions to be avoided: Heat, boiling teperatures.
- · Materials to be avoided:

carbonates

Acetic anhydride

Potassium

Acetic Anhydride

Alkalis

Carbonate

- · 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 2660 mg/kg (rat)
LDLo 429 mg/kg (MAN)
200 mg/kg (wmn)

- · Primary irritant effect:
- · on the skin: Irritant
- · on the eye: irritation
- · Sensitization: Sensitization possible by skin contact.
- · Sensitisation May cause sensitisation by skin contact.

# 12 Ecological information:

· General notes:

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



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

#### 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.

# 14 Transport information

- · Land transport ADR/RID and GGVS/GGVE (crossborder/domestic)
- border/domestic) n/a
  · ADR/RID-GGVS/E Class: -
- · Maritime transport IMDG/GGVSea:
- · IMDG/GGVSea Class:
- · Air transport ICAO-TI and IATA-DGR:
- · ICAO/IATA Class:

### 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:

Xi Irritant

· Risk phrases:

43 May cause sensitisation by skin contact.

- · Safety phrases:
- 24 Avoid contact with skin.
- 37 Wear suitable gloves.
- 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- 53 Avoid exposure obtain special instructions before use.

### 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.