

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

Identification of the product:

Product number: MA0150

Name of material: D(-)-Mannitol, reagent grade, ACS

Use of the substance/preparation:

analytical chemistry, manufacturing of synthetic resins, for pharmaceuticals synthesizing, in food industry, for determination of: boric acid.

Australian representation:

Chem-Supply Pty. Ltd.

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2. Composition/information on ingredients

Identification and amount of the components:

Synonyms:Manna sugar

CAS: 69-65-8

Molecula weight:182,17

EC number:200-711-8

Formula: C6H14O6

Classified as non-hazardous according to criteria of NOHSC

3. Hazards identification

Hazards classification for the substance according to the european directives:

No hazardous product as specified in Directive 67/548/EEC.

4. First aid measures

After inhalation: Fresh air.

After skin contact: wash off with water.

After ingestion: (large amounts): consult doctor if feeling unwell.

After eye contact: rinse out with water.

5. Fire-fighting measures

Suitable extinguishing media: Water, foam, powder.

Special risks: combustible. Danger of dust explosion!

Formation of combustion gases or dangerous vapours possible in event of fire.

Special protective equipment for fire fighting: Do not stay in dangerous zone without self-contained breathing apparatus.

6. Accidental release measures

Person-related precautionary measures: Avoid generation of dusts; do not inhale dusts.

Procedures for cleaning / absorption: Take up dry. Forward for disposal. Clean up.

7. Handling and storage

Handling: No further requirements.

Storage: Store tightly closed and dry. Store at + 15°C to + 25°C.

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8. Exposure controls/personal protection

Exposure limit values: (MAK, Germany):

Exposure controls:

Occupational exposure controls: The personal protective equipment must be selected according to the working place, based on the concentration and amount of the dangerous substance. The supplier should indicate the stability of the personal protective equipment to chemical reagents.

Respiratory protection: required when dusts are generated.

Hand protection: we suggest to use it.

Eye protection: required

Industrial hygiene: Wash hands after working with substance.

9. Physical and chemical properties

General information:

Form: solid

Colour: white

Odour: odourless

Important health, safety and environmental information:

pH value: (100 g/l H₂O, 20 °C) 5 - 7

Boiling temperature: (4 hPa) 290 - 295 °C

Flash point: ---

Explosion limits (low): ---

Explosion limits (high): ---

Vapour pressure: ---

Density (20 °C): ---

Solubility in water: (25 °C): 213 g/l

Solubility in:

ethanol (25 °C): 0,24 g/l

ether: insoluble

Partition coefficient n-octanol/water: -3,10 (calculated).

Viscosity: ---

Refractive index: ---

Melting temperature: 164 -169 °C

Ignition temperature: ---

10. Stability and reactivity

Conditions to be avoided: No information available.

Substances to be avoided: strong oxidizing agents, strong acids, alkali hydroxides solutions.

Hazardous decomposition products: No information available.

Further information: dust explosion possible.

11. Toxicological information

Acute toxicity:

LD₅₀(oral, rat): 13500 mg/kg

Subacute to chronic toxicity:

Carcinogenicity: No indication of carcinogenic activity.

Mutagenicity:

Bacterian mutagenicity: Ames-Test: negative

Further toxicological information:

After ingestion: (large amounts): nausea, vomiting, decomposition.

Further information:

The product should be handled with the care usual when dealing with chemicals.

12. Ecological information

Ecotoxic effects: Quantitative data on the ecological effect of this product are not available.

Mobility: log P(o/w): -3,10 (calculated).

Bioaccumulative potential: Low probability of bioaccumulation (log P(o/w) < 1).

Persistence and degradability: Biological degradability: good

Further ecologic data:

ThOD: 1,15 g/g.

No ecological problems are to be expected when the product is handled and used with due care and attention.

13. Disposal considerations

Product: There are no uniform EU Regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EU member countries through corresponding laws and regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste.

Packaging: Disposal in compliance with official regulations. Handle contaminated packaging in the same way as the substance itself. If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled.

14. Transport information

Not subject to transport regulations.

15. Regulatory information

EC-classification: This product is not included in the dangerous substances index with its corresponding EC index number, so it has been classified according to the annex VI of the 2001/59/EC directive.

Symbol:

R-phrases: ---

S-phrases: ---

EC-Index-No: ---

16. Other information

Reason for the revision: General update.

Date: 26/03/2008

The information supplied in this data sheet, is based on the present state of our knowledge. The purpose of this information, is only to describe the security measures to follow in the handling of the product. Therefore it does not represent a guarantee about the properties of the product.