

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

Printing date 24.08.2007

Revision: 24.08.2007

1 Identification of substance:

· **Product details:**

· **Trade name:** Sulfuric acid N/50 (=1/100M) Dilut it

· **Article number:** 4704

· **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

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· **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:** void

· **Information pertaining to particular dangers for man and environment**

The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

· **Classification system**

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

3 Composition/information on ingredients


· **Chemical characterization**

· **Description:** Mixture of the substances listed below with harmless additions.

· **Dangerous components:**

CAS: 7664-93-9

Sulfuric Acid

 C; R 35 < 2.5%

EINECS: 231-639-5

· **Additional information** For the wording of the listed risk phrases refer to section 16.

4 First aid measures

· **General information** No special measures required.

· **After inhalation** Supply fresh air; consult doctor in case of symptoms.

· **After skin contact** The product is not skin irritating.

· **After eye contact** Rinse opened eye for several minutes under running water.

· **After swallowing** In case of persistent symptoms consult doctor.

5 Fire fighting measures

· **Suitable extinguishing agents**

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

(Contd. on page 2)

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(Contd. of page 1)

· **Protective equipment:** No special measures required.

6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:** Dilute with plenty of water.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **Additional information:** No dangerous materials are released.

7 Handling and storage

- **Handling**
- **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:** 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:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored 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**
The usual precautionary measures should be adhered to in handling the chemicals.
- **Breathing equipment:** Not required.
- **Protection of hands:**
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**
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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **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.
- **Eye protection:** Safety glasses recommended during refilling.

9 Physical and chemical properties:

- **General Information**
Form: Fluid

(Contd. on page 3)

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(Contd. of page 2)

Colour:	Colourless
Smell:	Odourless
· Change in condition	
Melting point/Melting range:	0°C
Boiling point/Boiling range:	100°C
· Flash point:	n/a
· Self-inflammability:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive.
· Steam pressure at 20°C:	23.0 hPa
· Density at 20°C	1.0 g/cm ³
· Solubility in / Miscibility with Water:	Fully miscible

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:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritant effect.
- **Sensitization:** No sensitizing effect known.
- **Additional toxicological information:**
The product is not subject to classification according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

12 Ecological information:

- **General notes:**
Water hazard class (D) 1 (Self-assessment): slightly hazardous for water.
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

13 Disposal considerations

- **Product:**
- **Recommendation** Smaller quantities can be disposed with household garbage.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

(Contd. on page 4)

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(Contd. of page 3)

· **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:** 2796
- **Packaging group:** II
- **Label:** 8
- **Designation of goods:** 2796 SULPHURIC ACID
- **Limited quantities (LQ):** LQ22
- **Transport category:** 2
- **Tunnel restriction code:** E

· **Maritime transport IMDG/GGVSea:**



- **IMDG/GGVSea Class:** 8
- **UN Number:** 2796
- **Label:** 8
- **Packaging group:** II
- **EMS Number:** F-A,S-B
- **Marine pollutant:** No
- **Correct technical name:** SULPHURIC ACID

· **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** 8
- **UN/ID Number:** 2796
- **Label:** 8
- **Packaging group:** II
- **Correct technical name:** SULPHURIC ACID

15 Regulatory information

· **Designation according to EC guidelines:**

The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (GefStoffV).

Observe the normal safety regulations when handling chemicals

(Contd. on page 5)

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(Contd. of page 4)

- **Special designation of certain preparations:**
Safety data sheet available for professional user on request.

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.

- **Relevant R phrases**
35 Causes severe burns.
- **Department issuing data specification sheet:** Quality Assurance Department
- **Contact:** Sjors duteweert
- *** Data compared to the previous version altered.**

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