

Safety Data Sheet

According to EC Directive 91/155/EEC

Date of issue: 01.02.2007
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1. Identification of the substance/preparation and of the company/undertaking

Identification of the product

Catalogue No.: 817042
Product name: Saccharin sodium dihydrate Ph Eur

Use of the substance/preparation

Pharmaceutical production and analysis

Company/undertaking identification

Company: Merck Schuchardt OHG * 85662 Hohenbrunn * Germany *
Tel: +49 8102/802-0
Emergency telephone No.: Please contact the regional Merck representation
in your country.

2. Composition/information on ingredients

CAS-No.: 6155-57-3
M: 241.19 g/mol
Formula Hill: $C_7H_4NNaO_3S \cdot 2 H_2O$
EC-No.: 204-886-1

3. Hazards identification

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

4. First aid measures

After inhalation: fresh air.
After skin contact: wash off with plenty of water. Remove contaminated clothing.
After eye contact: rinse out with plenty of water with the eyelid held wide open.
After swallowing: immediately make victim drink plenty of water. Consult doctor if feeling unwell.

5. Fire-fighting measures

Suitable extinguishing media:
Water, CO₂, foam, powder.

Special risks:
Combustible. Development of hazardous combustion gases or vapours possible in the event of fire. The following may develop in event of fire: sulfur oxides, nitrogen oxides.

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

Other information:
Contain escaping vapours with water. Prevent fire-fighting water from entering surface water or groundwater.

Merck Safety Data Sheet

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6. Accidental release measures

Person-related precautionary measures:
Avoid inhalation of dusts.

Procedures for cleaning / absorption:
Take up dry. Forward for disposal. Clean up affected area. Avoid generation of dusts.

7. Handling and storage

Handling:

No further requirements.

Storage:

Tightly closed. Dry. At +15°C to +25°C.

8. Exposure controls/personal protection

Personal protective equipment:

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Respiratory protection: required when dusts are generated.

Eye protection: required

Hand protection:

In full contact:

Glove material: nitrile rubber

Layer thickness: 0.11 mm

Breakthrough time: > 480 Min.

In splash contact:

Glove material: nitrile rubber

Layer thickness: 0.11 mm

Breakthrough time: > 480 Min.

The protective gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resultant standard EN374, for example KCL 741 Dermatril® L (full contact), 741 Dermatril® L (splash contact). The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types.

This recommendation applies only to the product stated in the safety data sheet and supplied by us as well as to the purpose specified by us. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Industrial hygiene:

Change contaminated clothing. Wash hands after working with substance.

Merck Safety Data Sheet

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9. Physical and chemical properties

Form:	crystals		
Colour:	white		
Odour:	almost odourless		
pH value at 100 g/l H ₂ O	(20 °C)	6.0-7.5	
Melting point		not available	
Boiling point		not available	
Ignition temperature		not available	
Flash point		> 200 °C	o.c.
Explosion limits	lower	not available	
	upper	not available	
Density		not available	
Bulk density		600-800 kg/m ³	
Solubility in water	(20 °C)	1000 g/l	
Thermal decomposition		230-235 °C	
log Pow		0.45	(calculated) (Lit.)

10. Stability and reactivity

Conditions to be avoided
no information available

Substances to be avoided

Violent reactions possible with: strong oxidizing agents.

Hazardous decomposition products
in the event of fire: See chapter 5.

Further information

The following applies in general to flammable organic substances and preparations: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

11. Toxicological information

Acute toxicity

LD₅₀ (oral, rat): 14200 mg/kg (anhydrous substance) (RTECS).

Subacute to chronic toxicity

Bacterial mutagenicity: Ames test: negative. (anhydrous substance) (Lit.)

Further toxicological information

Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately.

Further data

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

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12. Ecological information

Behavior in environmental compartments:
Distribution: log Pow: 0.45 (calculated) (Lit.).
No bioaccumulation is to be expected (log Pow <1).

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

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

13. Disposal considerations

Product:

Chemicals must be disposed of in compliance with the respective national regulations. Under www.retrologistik.de you will find country- and substance-specific information as well as contact partners.

Packaging:

Merck product packaging must be disposed of in compliance with the country-specific regulations or must be passed to a packaging return system. Under www.retrologistik.de you will find special information on the respective national conditions as well as contact partners.

14. Transport information

Not subject to transport regulations.

15. Regulatory information

Labelling according to EC Directives

Symbol: ---
R-phrases: ---
S-phrases: ---

16. Other information

Reason for alteration

Chapter 2: change in ingredients data.
Chapter 9: change/addition in physical/chemical properties.
Chapter 10: stability and reactivity.

General update.

Regional representation:

This information is given on the authorised Safety Data Sheet for your country.

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.