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MATERIAL SAFETY DATA SHEET

MSDS for Dextran Sulfate Sodium (DST-H)

MSDS No. DS-TH-003

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Page 1 of 4

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

1.1. Identification of the substance or preparation

Product Name : Dextran Sulfate Sodium (DST-H)

1.2. Company / undertaking identification

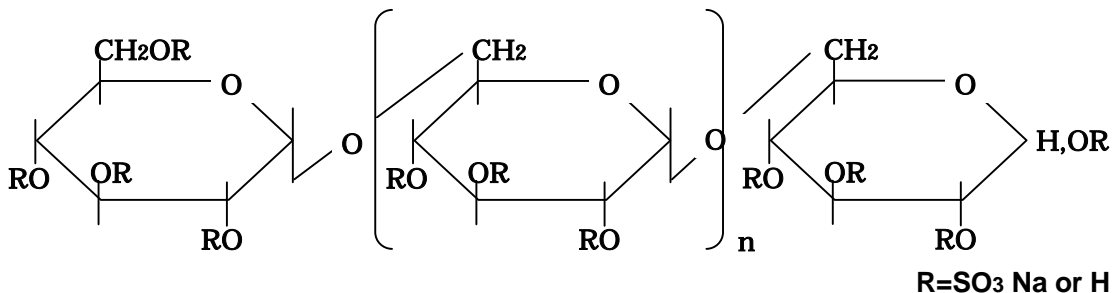
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1.3. Emergency / information

Department Name : Fine Chemicals Dept.
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2. Composition / information on ingredients

Chemical Name : Dextran sulfate sodium
General Name : Dextran sulfate sodium
Synonyms : Dextran sulfuric acid ester sodium salt
Chemical Family : Derivative of dextran
CAS Number : 9011-18-1
Formula of components :



MSDS for Dextran Sulfate Sodium (DST-H)

MSDS No. DS-TH-003

3. Hazards identification

- Health Hazard Information : No remarkable health hazards are informed
- Signs and Symptoms of Exposure : No remarkable signs and symptoms are observed. If a wound contacts with this material, prolongation of bleeding time is possible.

4. First aid measures

- Inhalation : Stop handling powder immediately leave the work area to fresh air. Rinse mouth, throat and nasal cavity thoroughly with water and take a rest.
- Skin Contact : Wash with soap and water.
- Eye Contact : Flush eyes thoroughly with water.

5. Fire-fighting measures

- : No special requirements.
- Extinguishing media : Water spray, dry chemical, foam, carbon dioxide
- Products of combustion : Carbon monoxide, carbon dioxide, smoke and so on.

6. Accidental release measures

- If material released or spilled : Wash down or remove by use of suitable equipment, such as vacuum cleaner.

7. Handling and storage precautions

- Handling : Avoid suspending the powder in air.
Do not store or handle in the presence of sparks or open flame.
- Storage : To protect quality, store in well-closed containers in a dry place away from heat and sunlight.

8. Exposure control / personal protection

- Respiratory protection : Use of dust proof respirator is recommended so as not to inhale powder.
- Eye protection : Use of safety glasses or goggles is recommended to protect the eyes.
- Hand / Skin protection : Use of chemical gloves or adhesive bandage is recommended to prevent the powder from contacting with a wound of hand or skin.

MSDS for Dextran Sulfate Sodium (DST-H)

MSDS No. DS-TH-003

9. Physical and chemical properties

Appearance	: A white to light yellow powder
Odor	: Odorless
pH	: 5.0 – 7.5
Solubility in water	: Not less than 1.0 g dissolves in 1 mL of water
Bulk Density	: About 0.6 g/mL
Explosive properties	: May form explosive dust-air mixture.
Boiling point	: N/A
Melting point	: N/A
Flash point	: Not determined
Flammability	: Not determined
Autoflammability	: Not determined
Vapor Density (Air=1)	: N/A
Vapor Pressure (Pa)	: N/A
Oxidizing properties	: None
Evaporation Rate (Butyl Acetate = 1)	: N/A

10. Stability and reactivity

Stability	: Stable
Hazardous Decomposition or Byproducts	: No information available
Hazardous Polymerization Products	: None

11. Toxicological information

LD ₅₀ (oral administration)	: Not less than 10 g/kg-rat
Signs and Symptoms of Exposure	: No remarkable signs and symptoms are observed. If a wound contacts with this material, Prolongation of bleeding time is possible.
Ingestion	: Product is not considered toxic but may be harmful if taken in large quantities.
Medical conditions aggravated by exposure	: No information available

12. Ecological information

Mobility	: No data
Persistence and degradability	: Biodegradable
Bioaccumulative potential	: None known

MSDS for Dextran Sulfate Sodium (DST-H)

MSDS No. DS-TH-003

Aquatic toxicity and other : No data
data relating to ecotoxicity

13. Disposal considerations / Waste Disposal Method

: Wash down sewer as local regulations require, treat in a biological treatment system or burn.

14. Transport information

: To protect quality, store in well-closed containers in a dry and cool place. Handle containers with care.

15. Regulatory information

: None

16. Other information

: None

The information in this MSDS was obtained from reliable sources. However, the data is provided without warranty, express or implied regarding its correctness or accuracy. It is the user's responsibility to determine safe conditions for the use of the product and to assume liability for loss, injury, damage or expense resulting from the improper use of the product. To the best of our knowledge, there exists no released or disclosed information concerning allergic study of the product by any authoritative research institution whereof governmental or otherwise.

N/A = NOT APPLICABLE