



# Material Safety Data Sheet

12601 Twinbrook Parkway,  
Rockville, MD 20852 USA

Phone Calls: 301-816-8129  
8 a.m. to 5 p.m. EST Mon. - Fri.

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## DERMATAN SULFATE

Catalog Number: 1171455

Revision Date:

May 7, 2008

### SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

**Common Name:** Dermatan Sulfate

**Manufacturer:** U. S. Pharmacopeia

**Responsible Party:** Reference Standards Technical Services

**Mailing Address:** 12601 Twinbrook Parkway, Rockville, MD 20852 USA

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**Product Use:** USP Reference Standards and Authentic Substances are used for chemical tests and assays in analytical, clinical, pharmaceutical, and research laboratories.

### SECTION 2 - HAZARD INFORMATION

Information on the chemical, physical, and toxicological properties of this material is not readily available. Individuals working with this chemical should consider it to be potentially hazardous even if its actual hazards may be uncharacterized or unknown.

**Adverse Effects:** Possible allergic reaction to material if inhaled, ingested, or in contact with skin.

**Overdose Effects:** Overexposure may cause nausea, vomiting, headache, dizziness, tiredness, skin rash and redness, and unconsciousness.

**Acute:** Possible eye, skin, gastrointestinal, and/or respiratory tract irritation.

**Chronic:** Possible hypersensitization.

**Medical Conditions Aggravated by Exposure:** Hypersensitivity to material. This material is derived from porcine intestinal mucosa; persons sensitive to pork may be sensitive to this material also.

**Cross Sensitivity:** n/f

**Target Organs:** Blood

**For additional information on toxicity, see Section 11.**

### SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

**Common Name:** Dermatan Sulfate

**Formula:** n/f

**Synonym:** Chondroitin Sulfate B Sodium

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**Chemical Name:** Dermatan Sulfate Sodium

**CAS:** 54328-33-5

**RTECS Number:** n/f

**Chemical Family:** Glycosaminoglycan

**Therapeutic Category:** Anticoagulant

**Composition:** Pure Material

## SECTION 4 - FIRST AID MEASURES

**Inhalation:** May cause irritation. Remove to fresh air.

**Eye:** May cause irritation. Flush with copious quantities of water.

**Skin:** May cause irritation. Flush with copious quantities of water.

**Ingestion:** May cause irritation. Flush out mouth with water.

**General First Aid Procedures:** Remove from exposure. Remove contaminated clothing. Persons developing serious hypersensitivity (anaphylactic) reactions must receive immediate medical attention. If person is not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical attention.

### Note to Physicians

**Overdose Treatment:** For current information about the treatment of overdose, consult a certified Regional Poison Control Center by calling the number listed in your local telephone directory.

## SECTION 5 - FIREFIGHTING MEASURES

**Extinguisher Media:** Water spray, dry chemical, carbon dioxide, or foam as appropriate for surrounding fire and materials.

**Fire and Explosion Hazards:** This material is assumed to be combustible. As with all dry powders, it is advisable to ground mechanical equipment in contact with dry material to dissipate the potential buildup of static electricity.

**Firefighting Procedures:** As with all fires, evacuate personnel to a safe area. Firefighters should use self-contained breathing equipment and protective clothing.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

**Spill Response:** Wear approved respiratory protection, chemically compatible gloves, and protective clothing. Wipe up spillage or collect spillage using a high-efficiency vacuum cleaner. Avoid breathing dust. Place spillage in appropriately labeled container for disposal. Wash spill site.

## SECTION 7 - HANDLING AND STORAGE

**Handling:** As a general rule, when handling USP Reference Standards avoid all contact and inhalation of dust, mist, and/or vapor associated with the material. Wash thoroughly after handling.

**Storage:** Store in tight container as defined in the USP-NF. This material should be handled and stored per label instructions to ensure product integrity. Store in a freezer. This material is hygroscopic.

## SECTION 8 - EXPOSURE CONTROL / PERSONAL PROTECTION

**Engineering Controls:** Engineering controls such as exhaust ventilation are recommended.

**Respiratory Protection:** Use a NIOSH-approved respirator, if it is determined to be necessary by an industrial hygiene survey involving air monitoring. In the event that a respirator is not required, an approved dust mask should be used.

**Gloves:** Chemically compatible

**Eye Protection:** Safety glasses or goggles

**Protective Clothing:** Protect exposed skin.

**Exposure Limits:** n/f

<b>SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES</b>
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**Properties as indicated on the MSDS are general and not necessarily specific to the USP Reference Standard Lot provided.****Appearance and Odor:** White powder.**Odor Threshold:** n/f**pH:** n/f**Melting Range:** n/f**Boiling Point:** n/f**Flash Point:** n/f**Autoignition Temperature:** n/f**Evaporation Rate:** n/f**Upper Flammability Limit:** n/f**Lower Flammability Limit:** n/f**Vapor Pressure:** n/f**Vapor Density:** n/f**Specific Gravity:** n/f**Solubility in Water:** n/f**Fat Solubility:** n/f**Other Solubility:** n/f**Partition Coefficient: n-octanol/water:** n/f**Percent Volatile:** n/f**Reactivity in Water:** n/f**Explosive Properties:** n/f**Oxidizing Properties:** n/f**Formula:** n/f**Molecular Weight:** Average 46275

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**SECTION 10 - STABILITY AND REACTIVITY****Conditions to Avoid:** Heat, moisture**Incompatibilities:** n/f**Decomposition Products:** When heated to decomposition, material emits toxic fumes. Emits toxic fumes under fire conditions.**Stable?** Yes      **Hazardous Polymerization?** No**SECTION 11 - TOXICOLOGICAL PROPERTIES****Oral Rat:** n/f**Oral Mouse:** n/f**Other Toxicity Data:** n/f**Irritancy Data:** n/f**Corrosivity:** n/f**Sensitization Data:** n/f**Listed as a Carcinogen by:**      **NTP:** No      **IARC:** No      **OSHA:** No**Other Carcinogenicity Data:** n/f**Mutagenicity Data:** n/f**Reproductive and Developmental Effects:** n/f**SECTION 12 - ECOLOGICAL INFORMATION****Ecological Information:** n/f**SECTION 13 - DISPOSAL CONSIDERATIONS****Disposal:** Dispose of waste in accordance with all applicable Federal, State, and local laws.**SECTION 14 - TRANSPORT INFORMATION****Shipping Name:** n/f**Class:** n/f**UN Number:** n/f**Packing Group:** n/f**Additional Transport Information:** n/f**SECTION 15 - REGULATORY INFORMATION****U.S. Regulatory Information:** n/f**International Regulatory Information:** n/f**SECTION 16 - OTHER INFORMATION****Revision:**                    07-May-08**Previous Revision Date:** None