Section 1 - Chemical Product and Company Identification

MSDS Name:  D-Sorbitol
Catalog Numbers:  BP439-500, S459-500
Synonyms:  D-Glucitol; O-Sorbitol; Hexahydrict Alcohol; D-Sorbitol

Company Identification:
Fisher Scientific
One Reagent Lane
Fair Lawn, NJ 07410

For information in the US, call:
201-796-7100
Emergency Number US:
201-796-7100
CHEMTREC Phone Number, US:
800-424-9300

Section 2 - Composition, Information on Ingredients

----------------------------------------------------------
CAS#:  50-70-4
Chemical Name:  D-glucitol
%:  100.0
EINECS#:  200-061-5

----------------------------------------------------------
Hazard Symbols:  None listed
Risk Phrases:  None listed

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Caution! May cause skin irritation. May cause eye irritation. This is expected to be a low hazard for usual industrial handling. Target Organs: None.

Potential Health Effects
Eye:  Dust may cause mechanical irritation.
Skin:  May cause skin irritation.
Ingestion:  May cause irritation of the digestive tract. Low hazard for usual industrial handling.
Inhalation:  May cause respiratory tract irritation. Low hazard for usual industrial handling.
Chronic:  None

Section 4 - First Aid Measures

Eyes:  Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation develops, get medical aid.
Skin:  Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.
Ingestion:  Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Wash mouth out with water. Get medical aid if irritation or symptoms occur.
Inhalation:  Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

Notes to Physician:

Section 5 - Fire Fighting Measures

General  As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be
**Information:** generated by thermal decomposition or combustion.

**Extinguishing Media:** For small fires, use water spray, dry chemical, carbon dioxide or chemical foam. Use agent most appropriate to extinguish fire. Do NOT get water inside containers.

- **Autoignition Temperature:** Not applicable.
- **Flash Point:** Not applicable.

**Explosion Limits:** Not available

**Explosion Limits:**
- **Lower:** Not available
- **Upper:** Not available

**NFPA Rating:** health: 1; flammability: 0; instability: 0;

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## Section 6 - Accidental Release Measures

**General Information:** Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Do not get water inside containers.

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## Section 7 - Handling and Storage

**Handling:** Do not get water inside containers. Avoid contact with skin and eyes. Avoid ingestion and inhalation. Use with adequate ventilation. Do not allow contact with water. Keep from contact with moist air and steam.

**Storage:** Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

Store protected from moisture.

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## Section 8 - Exposure Controls, Personal Protection

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>NIOSH</th>
<th>OSHA - Final PELs</th>
</tr>
</thead>
<tbody>
<tr>
<td>D-glucitol</td>
<td>none listed</td>
<td>none listed</td>
<td>none listed</td>
</tr>
</tbody>
</table>

**OSHA Vacated PELs:** D-glucitol: None listed

**Engineering Controls:** Use adequate ventilation to keep airborne concentrations low.

**Exposure Limits**

**Personal Protective Equipment**

- **Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
- **Skin:** Wear appropriate protective gloves to prevent skin exposure.
- **Clothing:** Wear appropriate protective clothing to minimize contact with skin.

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a Respirators: NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

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## Section 9 - Physical and Chemical Properties

**Physical State:** Solid

- **Color:** colorless or white
- **Odor:** odorless
- **pH:** 6-7 for 70% soln.

**Vapor Pressure:** Not available

**Vapor Density:** Not available

**Evaporation Rate:** Not available

- **Viscosity:** 110 cp @ 25C
- **Boiling Point:** 295 deg C (563.00°F)
- **Freezing/Melting Point:** 75 deg C (167.00°F)
Solubility in water: 55% @ 25C
Specific Gravity/Density: 1.489
Molecular Formula: C6H14O6
Molecular Weight: 182.17

Chemical Stability: Stable under normal temperatures and pressures.
Conditions to Avoid: Ignition sources, dust generation, moisture, excess heat, strong oxidants.
Incompatibilities with Other Materials: Strong oxidizing agents.
Hazardous Decomposition Products: Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.
Hazardous Polymerization: Has not been reported.

RTECS#: CAS# 50-70-4: LZ4290000
RTECS: CAS# 50-70-4: Oral, mouse: LD50 = 17800 mg/kg;
Oral, rat: LD50 = 15900 mg/kg;

Carcinogenicity: D-glucitol - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Epidemiology: Not available
Teratogenicity: Not available
Reproductive: Not available
Neurotoxicity: Not available
Mutagenicity: Not available
Other: Not available

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. RCRA P-Series: None listed. RCRA U-Series: None listed.

US DOT
Shipping Name: Not regulated as a hazardous material
Hazard Class:
UN Number:
Packing Group:
Canada TDG
Shipping Name: Not available
Hazard Class:
UN Number:
Packing Group:

US Federal
TSCA
CAS# 50-70-4 is listed on the TSCA Inventory.

Health & Safety Reporting List
None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules
None of the chemicals in this product are under a Chemical Test Rule.
None of the chemicals are listed under TSCA Section 12b.

None of the chemicals in this material have a SNUR under TSCA.

None of the chemicals in this material have an RQ.

None of the chemicals in this product have a TPQ.

No chemicals are reportable under Section 313.

This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depletors. This material does not contain any Class 2 Ozone depletors.

None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

D-glucitol is not present on state lists from CA, PA, MN, MA, FL, or NJ.

None of the chemicals in this product are listed.

Not available

None of the chemicals in this product are listed.

Not controlled.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations. CAS# 50-70-4 is not listed on Canada'sIngredient Disclosure List.

Section 16 - Other Information

MSDS Creation Date: 7/15/1999
Revision #5 Date 11/28/2007

Revisions were made in Sections: 9

Reviewed 2013.06.03 13:14:39 -04'00'

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

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