

## SORBITOL

### Material Safety Data Sheet (MSDS)

#### 1. PRODUCT IDENTIFICATION

Product Name: sorbitol  
 INCI Name: sorbitol  
 Synonyms: d-sorbitol, d-glucitol, d-sorbite, hexahydric alcohol  
 CAS Number: 50-70-4  
 EINECS Number: 200-061-5  
 Origin:

Eye Contact: May cause slight to moderate irritation in sensitive individuals. Seek medical attention if symptoms persist.  
 Skin Contact: May cause slight irritation in sensitive individuals  
 Ingestion: Do not ingest; product has laxative properties and may result in diarrhoea and abdominal cramps.  
 Note: Medical conditions may be aggravated by overexposure and/or individuals with autosomal recessive genetic intolerance to fructose. Chronic exposure may lead to excessive diarrhoe.

#### 2. PHYSICAL & CHEMICAL PROPERTIES

Melting Point: 92°C (198°F)  
 Boiling Point: 105°C (221°F)  
 Vapor Pressure, mmHg: not available  
 Vapor Density, Air= 1: not available  
 % Volatile by Volume: not available  
 Specific Gravity: 1.29  
 Solubility in water: soluble  
 pH Value: 5 - 7 (10% solution)  
 Appearance & Odor: white powder, slightly sweet odor

#### 8. FIRST AID MEASURES

Eyes: Irrigate eyes with a heavy stream of water for at least 15 to 20 minutes. If irritation persists get medical attention.  
 Skin: Wash exposed areas of the body with soap and water.  
 Inhalation: Remove from area of exposure. If breathing is difficult, give oxygen. Seek medical attention if symptoms persist.  
 Ingestion: If gastrointestinal symptoms develop, consult medical personnel.

#### 3. STABILITY & REACTIVITY

Chemical Stability: stable under normal conditions, avoid heat  
 Incompatibility: strong oxidizers, strong acids  
 Hazardous Decomposition: burning can produce carbon monoxide, carbon dioxide and various hydrocarbons.  
 Hazardous Polymerisation: stable under normal conditions

#### 9. FIRE FIGHTING MEASURES

Flash Point: > 149°F (> 300°F)  
 Autoignition Temperature: not applicable  
 Fire Fighting Procedures: Firefighters should wear full fire-fighting turn-out gear (full Bunker gear) including NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

#### 4. HANDLING & STORAGE

Avoid contact with eyes. Wash thoroughly after handling. As with all chemicals, good industrial hygiene practices should be followed when handling this material.  
 Avoid freezing or excessive heat. Do not handle or store near an open flame, heat or other sources of ignition. Keep the container tightly closed and in a cool, well-ventilated place.

#### 10. TOXICOLOGICAL INFORMATION

Acute LD50: 15` 900 mg/kg (rat, oral)  
 Chronic LD50: not determined  
 Carcinogenicity: no data available  
 Mutagenicity: no data available

#### 5. ACCIDENTAL RELEASE MEASURES

Isolate spill area immediately. Keep unauthorized personnel away. Ventilate closed spaces before entering. Do not touch or walk through spilled material. Prevent entry into waterways, sewers, basements or confined areas. Surface may become slippery after spillage. Use vacuum or broom sweeping and remove to disposal container. If damp, flush with water.

#### 11. DISPOSAL CONSIDERATIONS

Storage and disposal must be in accordance with applicable local, state & federal disposal regulations. Characterization and compliance with applicable laws are the responsibility solely of the generator.

#### 6. EXPOSURE CONTROLS & PERSONAL PROTECTION

Respiratory Protection: No specific protective measures necessary.  
 Protective Clothing: Gloves recommended to prevent prolonged skin contact. Safety glasses, goggles, or face shield recommended for eye protection.  
 Other Protective Measures: Employees must practice good personal hygiene, washing exposed areas of skin several times daily and laundering contaminated clothing before re-use.

#### 12. TRANSPORT INFORMATION

DOT Shipping Name: Refer to corresponding hazard class  
 ADR/ R I C Code: Refer to corresponding hazard class  
 Sea Transport I M D G Code: Refer to corresponding hazard class  
 Air Transport I A T A Code: Refer to corresponding hazard class

#### 7. HAZARDS IDENTIFICATION

General: No specific hazard known.  
 Inhalation: Not normally an inhalation hazard

#### 13. DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use.

ALL DATA HEREIN ARE ALL AS PER OUR SUPPLIER.