

# Sorbitol

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 /  
March 26, 2012 / Rules and Regulation

Revision Date: 01-26-2016  
Supersedes: 08-28-2015

## 1 PRODUCT & COMPANY IDENTIFICATION

**Product Name:** Sorbitol  
**Synonyms:** d-sorbitol, d-glucitol, hexahydric alcohol  
**INCI Name:** Sorbitol  
**CAS Number:** 50-70-4  
**Formula:** C<sub>6</sub>H<sub>14</sub>O<sub>6</sub>  
**Product Form:** Solid  
**Product Use:** Cosmetic use

**Distributor:** MakingCosmetics.com Inc.  
**Address:** 10800 231<sup>st</sup> Way NE  
 Redmond, WA 98053 (USA)  
**Phone / Fax:** 425-292-9502 / 425-292-9601  
**Web:** [www.makingcosmetics.com](http://www.makingcosmetics.com)

**Emergency Telephone Number: 1-800-424-9300 (Chemtrec)**

## 2 HAZARDS IDENTIFICATION

**GHS Classification:** Not classified  
**GHS Labeling:** Not classified  
**GHS Hazard Pictograms:** None  
**GHS Hazard Statements:** None  
**GHS Precautionary Statements:** None  
**Potential Health Hazards:** Eyes: May be irritant.  
 Inhalation: Not normally an inhalation hazard.  
 Skin: May be irritant.  
 Ingestion: May be irritant and laxative.

**NFPA Ratings (704):**

Health	2	Moderate
Flammability	1	Slight
Reactivity	0	Minimal
Specific Hazard	n/a	

## 3 COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS No.</u>	<u>Weight %</u>	<u>Molecular Weight</u>
Sorbitol	50-70-4	Not available	182.17 g/mol

## 4 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.  
**Inhalation:** Move to fresh air. Call a physician if symptoms develop or persist.  
**Skin:** Wash off skin with soap and water. Get medical attention if irritation develops or persists.  
**Ingestion:** If gastrointestinal symptoms develop, consult medical personnel.

## 5 FIRE-FIGHTING MEASURES

**Suitable (and unsuitable) extinguishing media:** No data available  
**Special protective equipment & precautions for firefighters:** Firefighters should wear full protective clothing including self-contained breathing Apparatus.  
**Flash Points:** >249° F (>300° C)  
**Specific hazards arising from the chemical:** None known

## 6 ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment & emergency procedures:** See section 8 for recommendations on the use of personal protective equipment.  
**Environmental precautions:** Prevent entry into waterways, sewers, basements or confined areas.  
**Methods and material for containment and cleaning up:** Isolate spill area immediately. Keep unauthorized personnel away. Ventilate closed spaces before entering. Do not touch or walk through spilled material. Surface may become

slippery after spillage. Use vacuum or broom and remove to disposal container. If damp, flush with water.

## 7 HANDLING & STORAGE

**Precautions for safe handling:** Avoid contact with eyes. Wash thoroughly after handling. As with all chemicals, good industrial hygiene practices should be followed when handling this material.

**Conditions for safe storage, incl. any incompatibilities:** 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.

## 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Component</u>	<u>Exposure Limits</u>	<u>Basis</u>	<u>Entity</u>
Sorbitol	Not determined		

TWA: Time Weighted Average over 8 hours of work.  
 TLV: Threshold Limit Value over 8 hours of work.  
 REL: Recommended Exposure Limit  
 PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit during x minutes.  
 IDLH: Immediately Dangerous to Life or Health  
 WEEL: Workplace Environmental Exposure Levels  
 CEIL: Ceiling

### Personal Protection:

**Eyes:** Safety glasses, goggles, or face shield recommended for eye protection.

**Inhalation:** No protective measures necessary. May wear NIOSH approved respiratory protection.

**Body:** Gloves recommended to prevent prolonged skin contact.

**Other:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance, Physical State:</b>	Powder	<b>Vapor Pressure:</b>	Not available
<b>Odor:</b>	Slightly sweet odor	<b>Vapor Density:</b>	Not available
<b>Taste:</b>	Not available	<b>Evaporation Rate:</b>	Not available
<b>Color:</b>	White	<b>Flammability:</b>	Not available
<b>Molecular Weight:</b>	182.17 g/mol	<b>Upper/lower Explosive Limit:</b>	Not available
<b>pH (1% sol. in water)</b>	5-7 (10% solution)	<b>Solubility:</b>	Soluble in water.
<b>Boiling Point:</b>	105°C (221°F)	<b>Flash Point:</b>	100°C (212°F; 373 K)
<b>Melting Point:</b>	92°C (198°F)	<b>Specific Gravity:</b>	1.29

## 10 STABILITY AND REACTIVITY

**Reactivity:** Product is stable

**Chemical Stability:** Stable under normal conditions of storage and handling.

**Hazardous Polymerization:** Not likely to occur

**Conditions to Avoid:** Not available

**Incompatible Materials:** Strong oxidizing agents and strong acids.

**Hazardous Decomposition Products:** Burning can produce carbon monoxide, carbon dioxide and various hydrocarbons.

## 11 TOXICOLOGICAL INFORMATION

**Acute Toxicity:** Acute oral toxicity (LD50) 15'900 mg/kg (rat)

**Skin:** Slight irritation to sensitive individuals.

**Eyes:** Slight to moderate irritation to sensitive individuals.

**Respiratory:** Not normally an inhalation hazard

**Ingestion:** Do not ingest; product has laxative properties and may result in diarrhea and abdominal cramps.

**Carcinogenicity:** Not available

**Teratogenicity:** Not available

**Germ Cell Mutagenicity:** Not available

**Embryotoxicity:** Not available

**Specific Target Organ Toxicity:** Not available

**Reproductive Toxicity:** Not available

Respiratory/Skin Sensitization: Not available

## 12 ECOLOGICAL INFORMATION

### Ecotoxicity

Aquatic Vertebrate:	Not available
Aquatic Invertebrate:	Not available
Terrestrial:	Not available
Persistence and Degradability:	Not available
Bioaccumulative Potential:	Not available
Mobility in Soil:	Not available
PBT and vPvB Assessment:	Not available
Other Adverse Effects:	Not available

## 13 DISPOSAL CONSIDERATIONS

**Waste Residues:** Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.

**Product Containers:** Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.

The information in section 13 is for the product as shipped. Use and/or alterations to the product may change the characteristics of the material and alter the waste classification and proper disposal methods

## 14 TRANSPORT INFORMATION

DOT (Dept. of Transportation, USA):	Not regulated
TDG (Transportation of Dangerous Goods, Canada):	Not regulated
IMDG (International Maritime Dangerous Goods):	Not regulated
IATA (International Air Transport Association):	Not regulated
ICAO (International Civil Aviation Organization):	Not regulated

## 15 REGULATORY INFORMATION

TSCA Inventory Status:	Listed as Sorbitol.
DSCL (EEC):	This product is not classified according to the EU regulations. Not applicable.
WHMIS (Canada):	Not controlled under WHMIS (Canada)

## 16 OTHER INFORMATION

**Revision Date:** 01-26-2016

**Compliance:** This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200

**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.