

Sorbitol

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

Revision Date: 11/20/2020
Supersedes: 05/03/2019

1 PRODUCT & COMPANY IDENTIFICATION

Product Name: Sorbitol
Synonyms: d-glucitol
INCI Name: Sorbitol
CAS Number: 50-70-4
Formula: Not available
Product Form: Powder
Product Use: Cosmetic use

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

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

2 HAZARDS IDENTIFICATION

GHS Classification: Combustible Dust
Signal Word: WARNING
GHS Hazard Pictograms: None
GHS Hazard Statements: May form combustible dust concentrations in air.
GHS Precautionary Statements: Dispose of contents/container in accordance with local/regional/national/international/regulations.
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	N/A	N/A
Flammability	N/A	N/A
Reactivity	N/A	N/A
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	100%	182 g/mol

4 FIRST AID MEASURES

Eyes: Rinse eyes cautiously with water for several minutes. If eye irritation persists: get medical advice/attention.
Inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.
Skin: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. If skin irritation occurs: get medical advice/attention.
Ingestion: Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If large amount is swallowed, get medical attention.

5 FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media: May be combustible at high temperature. Use appropriate media (foam, carbon dioxide, water spray) for adjacent fire. Do not use direct water stream.
Special protective equipment & precautions for firefighters: Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots. Remove product from area of fire. Wet the material with water to limit dust emission or explosion. Suitable extinguishing media. Avoid inhalation of the product. Stay upwind/keep distance from source.
Flash Points: No data available
Specific hazards arising from the chemical: May form combustible dust concentrations in air. This material can be ignited by heat, sparks, flames, or other sources of ignition (e.g. static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe). Use explosion-proof electrical equipment.

Contact with combustible material may cause fire. See also Stability and Reactivity section.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment & emergency procedures:	Do not try to clean up the leak without proper protective equipment. See section 8 for recommendations on the use of personal protective equipment.
Environmental precautions:	Avoid liquid release into sewers/public water. Notify environmental authorities in case of large leaks.
Methods and material for containment and cleaning up:	Avoid generation of dust. Remove all sources of ignition. Ensure that the equipment is adequately grounded. Dispose of contents/container in accordance with local/regional/national/international regulations.

7 HANDLING & STORAGE

Precautions for safe handling:	See section 8 for recommendations on the use of personal protective equipment. Keep container closed when not in use. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Take care for general good hygiene and housekeeping.
Conditions for safe storage, incl. any incompatibilities:	Store in accordance with local/regional/national/international regulations. Store in a well-ventilated place. Keep container tightly closed. Store in a dry place. Avoid generation of dust. Keep away from heat and incompatible materials (see section 10 for incompatibilities).

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Component</u>	<u>Exposure Limits</u>	<u>Basis</u>	<u>Entity</u>
Sorbitol	10 mg/m ³	Particulates Not Otherwise Classified (inhalable fraction)	ACGIH TLV
	3 mg/m ³	Particulates Not Otherwise Classified (respirable fraction)	ACGIH TLV
	15 mg/m ³	Particulates Not Otherwise Regulated (total dust)	OSHA PEL
	5 mg/m ³	Particulates Not Otherwise Regulated (respirable fraction)	OSHA PEL

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:	If eye contact is likely, wear chemical resistant safety goggles.
Inhalation:	Not required under normal conditions of use. If respirable dusts are generated, respiratory protection may be needed. Ventilation equipment should be explosion-resistant if explosive concentrations of material are present. Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e. there is no leakage from the equipment).
Body:	Protective clothing not required under normal conditions. Protective gloves not required under normal conditions.
Other:	Use good personal hygiene practices. Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White crystalline powder	Vapor Pressure:	No data available
Odor:	No detectable foreign odor	Vapor Density:	No data available
Odor Threshold:	No data available	Evaporation Rate:	No data available
Color:	No data available	Flammability:	No data available
Molecular Weight:	182 g/mol	Upper/lower Explosive Limit:	No data available
pH (10% w/w in water):	3.5-7.0	Flash Point:	No data available
Boiling Point:	No data available	Specific Gravity @ 25 °C:	No data available
Melting Point:	99-101 °C	Solubility in Water:	235 g/100ml water
Relative Density:	No data available	Auto-Ignition Temperature:	No data available
Partition Coefficient: n-octanol/water:	No data available	Decomposition Temperature:	No data available

Viscosity:	No data available	Explosive Properties:	No data available
Oxidizing Properties:	No data available	Freezing Point:	No data available
Taste:	Clean typical taste	KSt-value (bar x m/s):	*See "other information" below

Other Information: *Material Dust Explosivity Parameters: KSt-value (bar x m/s): 113. Maximum explosion pressure (Pmax) bar: 7.9. Maximum rate of pressure rise ((dp/dt)max) bar/s: 417. Testing in accordance with American Society of Testing Materials (ASTM E1226). This data provides a relative measure of deflagration characteristics used for design of explosion protection systems. Refer to NFPA 654, 68, and 69 for guidance on explosion mitigation.

10 STABILITY AND REACTIVITY

Reactivity:	No known hazardous reactions.
Chemical Stability:	The product is stable under storage at normal ambient temperatures.
Hazardous Polymerization:	None.
Conditions to Avoid:	Avoid generation of dust. Remove all sources of ignition.
Incompatible Materials:	Oxidizing agents. Combustible substance.
Hazardous Decomposition Products:	Carbon dioxide. Carbon monoxide.

11 TOXICOLOGICAL INFORMATION

Acute Toxicity:	No data available
Skin:	No data available
Eyes:	Irritation to eyes. Corneal opacity.
Respiratory:	May cause respiratory irritation.
Ingestion:	LD50: 15900 mg/kg
Carcinogenicity:	None of this product's components are listed by ACGIH, IARC, NTP, DFG, or OSHA.
Teratogenicity:	No data available
Germ Cell Mutagenicity:	No data available
Embryotoxicity:	No data available
Specific Target Organ Toxicity:	No data available
Reproductive Toxicity:	No data available
Respiratory/Skin Sensitization:	No data available
Corrosivity:	No data available
Sensitization:	No data available
Irritation:	No data available
Repeated Dose Toxicity:	No data available

12 ECOLOGICAL INFORMATION

Ecotoxicity	Avoid release to the environment.
Aquatic Vertebrate:	No data available
Aquatic Invertebrate:	No data available
Terrestrial:	No data available
Persistence and Degradability:	Biodegradable.
Bioaccumulative Potential:	No data available
Mobility in Soil:	No data available
PBT and vPvB Assessment:	No data available
Other Adverse Effects:	No data 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): No data available

TDG (Transportation of Dangerous Goods, Canada):	No data available
IMDG (International Maritime Dangerous Goods):	No data available
IATA (International Air Transport Association):	No data available
ICAO (International Civil Aviation Organization):	No data available

15 REGULATORY INFORMATION

TSCA Inventory Status:	Listed
DSCL (EEC):	Listed
WHMIS (Canada):	No data available
EU EINECS/ELINCS/NLP:	Listed
China IECSC:	Listed
China IECIC (06.30.2014):	Listed
Australia AICS:	Listed
Philippines:	Listed
Japan ENCS:	Listed
Japan ISHL:	Not listed
Korea KECI/KECL:	Listed
Korea TCCA:	Not listed
New Zealand NZIoC:	Listed
Mexico:	Listed
SARA Section 302/304:	None of this product's components are listed under SARA Sections 302/304 (40 CFR 355 Appendix A).
SARA Section 313:	None of this product's components are listed under SARA Section 313 (40 CFR 372.65).
CERCLA:	None of this product's components are listed under CERCLA (40 CFR 302.4).
OSHA Process Safety Plan:	Not required
FDA - Direct Food Additive:	No components of this material are listed
FDA - Food Additives GRAS:	The following components of this product are listed on the FDA - Food additives General Recognized as Safe (GRAS): D-Glucitol (50-70-4)
FDA - Food Additives GRAS SCOGS:	The following components of this product are listed on the FDA - Food additives General Recognized as Safe (GRAS) - Select Committee on GRAS Substances (SCOGS): D-Glucitol (50-70-4)
FDA - Food Additives Permitted in Food on Interim Basis:	No components of this material are listed.
FDA - Substances Prohibited from Use in Human Food:	No components of this material are listed.
US State Regulations:	None of this product's components are listed on the state lists from CA, MA, MN, NJ, or PA.
California Prop. 65:	Not listed

16 OTHER INFORMATION

Revision Date:	11/20/2020
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.