

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 | Distributor: | MakingCosmetics.com Inc. |
| Synonyms: | d-glucitol | Address: | 10800 231 st Way NE Redmond, WA 98053 (USA) |
| INCI Name: | Sorbitol | Phone / Fax: | 425-292-9502 / 425-292-9601 |
| CAS Number: | 50-70-4 | Web: | www.makingcosmetics.com |
| Formula: | Not available | | |
| Product Form: | Powder | | |
| Product Use: | Cosmetic use | 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): | <table border="0"> <tr> <td>Health</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>Flammability</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>Reactivity</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>Specific Hazard</td> <td colspan="2">N/A</td> </tr> </table> | Health | N/A | N/A | Flammability | N/A | N/A | Reactivity | N/A | N/A | Specific Hazard | N/A | |
| 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

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| 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

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| 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 |

Flash Points: material with water to limit dust emission or explosion. Suitable extinguishing media. Avoid inhalation of the product. Stay upwind/keep distance from source. 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

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| 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

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| 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

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| 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

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|--------------------|-----------------------------------|
| Ecotoxicity | Avoid release to the environment. |
|--------------------|-----------------------------------|

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|---------------------------------------|-------------------|
| 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

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|--|-------------------|
| 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

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| 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

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| 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. |