



Safety Data Sheet

Material Name **SORBO® Sorbitol Solution USP/FCC (All Grades)**

Section 1 - IDENTIFICATION

Material Name: SORBO® Sorbitol Solution USP/FCC (All Grades)

Trade Names/Synonyms

Liquid Sorbitol, D-Glucitol

Recommended Use

Foodstuffs; food application; Used in food product or food mixture

Manufacturer Information

Ingredion Incorporated
5 Westbrook Corporate Center
Westchester, IL 60154 USA
Product Info/Customer Service: 708-551-2600
Fax: 708-551-2510
Business Hours: Mon - Fri, 7:30 a.m. - 5:00 p.m. (CST)

Ingredion Canada Incorporated
1600-90 Burnhamthorpe Road West
Mississauga, ON L5B 0H9 Canada
Product Info/Customer Service: (905) 281-7950
Fax: (905) 281-7951
Business Hours: Mon - Fri, 7:30 a.m. - 6:00 p.m. (EST)

24-Hour Emergency Telephone Number

1-800-424-9300 (CHEMTREC)

Section 2 - HAZARDS IDENTIFICATION

Classifications are accordance to the GHS classification requirements under 29 CFR 1910.1200

No classification is assigned, based on classification criteria. Review the entire data sheet for any additional information which did not result in a GHS classification.

GHS LABEL ELEMENTS

Symbol(s)

None needed according to classification criteria.

Signal Word

None needed according to classification criteria.

Hazard Statement(s)

None needed according to classification criteria.

Precautionary Statement(s)

Prevention

None needed according to classification criteria.

Response

None needed according to classification criteria.

Storage

None needed according to classification criteria.

Disposal

Dispose in accordance with all applicable regulations.

Hazard(s) Not Otherwise Classified

This is an aqueous solution of combustible dust material that should not be allowed to dry/evaporate as the dust will be combustible.

Safety Data Sheet

Material Name SORBO® Sorbitol Solution USP/FCC (All Grades)

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component	Percent
50-70-4	D-Glucitol 200-061-5	70
7732-18-5	Water 231-791-2	30

Section 4 - FIRST AID MEASURES

Description of Necessary Measures

Inhalation

If adverse effects occur, remove to uncontaminated area. Get medical attention, if needed.

Skin

Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention, if needed.

Eyes

Flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention, if needed.

Ingestion

If a large amount is swallowed, get medical attention. Do not induce vomiting unless told to do so by the poison control center or doctor.

Most Important Symptoms/Effects

Acute

No information on significant adverse effects.

Delayed

No information on significant adverse effects.

Section 5 - FIRE FIGHTING MEASURES

Suitable Extinguishing Media

Regular dry chemical, carbon dioxide, water spray
Large fires: Use regular foam or flood with fine water spray.

Specific Hazards Arising from the Chemical

This is an aqueous solution of combustible dust material that should not be allowed to dry/evaporate as the dust will be combustible.

Hazardous Combustion Products

Combustion: carbon monoxide, carbon dioxide, low molecular weight hydrocarbons

Fire Fighting Measures

Move container from fire area if it can be done without risk. Do not scatter spilled material with high-pressure water streams. Dike for later disposal. Use extinguishing agents appropriate for surrounding fire. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

Special Protective Equipment and Precautions for Firefighters

Wear full protective firefighting gear including self-contained breathing apparatus (SCBA) for protection against possible exposure.

Safety Data Sheet

Material Name SORBO® Sorbitol Solution USP/FCC (All Grades)

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

See Section 8 for personal protection information.

Methods and Materials for Containment and Cleaning Up

Avoid heat, flames, sparks and other sources of ignition. Eliminate all ignition sources if safe to do so. Stop leak if possible without personal risk. **Small spills:** Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal. Avoid release to the environment.

Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling

Observe good hygiene and safety practices when handling this product. Avoid contact with skin and eyes. Wash thoroughly after handling.

Conditions for Safe Storage, including any Incompatibilities

Store and handle in accordance with all current regulations and standards. Store between 68 °F and 100 °F (20 °C and 38 °C). Keep container tightly closed and in a cool, well-ventilated place. Shelf life is 2-3 year. Keep separated from incompatible substances.

Incompatibilities oxidizing materials

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

ACGIH, NIOSH, EU, OSHA (US) and Mexico have not developed exposure limits for any of this product's components.

Appropriate Engineering Controls

Ensure compliance with applicable exposure limits.

Individual Protection Measures, such as Personal Protective Equipment

Eyes/Face Protection

If eye contact is likely, wear chemical resistant safety goggles.

Skin Protection

Protective clothing is not required under normal conditions.

Glove Recommendations

Protective gloves are not required under normal conditions.

Respiratory Protection

Respiratory protection is not required under normal conditions of use.

If ventilation is not sufficient to effectively prevent buildup of mists or vapors, appropriate respiratory protection must be provided.

Safety Data Sheet

Material Name SORBO® Sorbitol Solution USP/FCC (All Grades)

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid	Appearance:	clear, colorless, syrupy liquid
Color:	colorless	Physical Form:	liquid
Odor:	No detectable foreign odor	Odor Threshold:	Not available
Taste:	Clean sweet taste	pH:	5.0.7.5 (14% w/w in water)
Melting Point:	Not available	Boiling Point:	Not available
Flash Point:	Not available	Evaporation Rate:	Not available
LEL:	Not available	UEL:	Not available
Vapor Pressure:	Not available	Vapor Density (air = 1):	Not available
Bulk Density:	Not available	Density:	Not available
Specific Gravity (water = 1):	Not available	Water Solubility:	Not available
Log KOW:	Not available	Coeff. Water/Oil Dist:	Not available
Auto Ignition:	Not available	Viscosity:	110 cps @25 °C
Volatility:	Not available	Molecular Weight:	Not available
Molecular Formula:	Not available	Moisture:	Not available
Minimum Ignition Temperature:	Not available	Minimum Ignition Energy:	Not available

Solvent Solubility

Soluble: No information is available.

Section 10 - STABILITY AND REACTIVITY

Reactivity

No reactivity hazard is expected.

Chemical Stability

Stable at normal temperatures and pressure.

Possibility of Hazardous Reactions

Will not polymerize.

Conditions to Avoid

Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.

Incompatible Materials

Oxidizing materials

Hazardous Decomposition

Combustion: carbon monoxide, carbon dioxide, low molecular weight hydrocarbons

Section 11 - TOXICOLOGICAL INFORMATION

Acute and Chronic Toxicity

Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and no selected endpoints have been identified.

Acute Toxicity Level

D-Glucitol (50-70-4)

Non Toxic: ingestion

Information on Likely Routes of Exposure

Inhalation

No effects expected.

Safety Data Sheet

Material Name **SORBO® Sorbitol Solution USP/FCC (All Grades)**

Ingestion

Ingestion of large amounts of product may produce critical effect: G.I. tract disturbances.

Skin Contact

Prolonged or repeated exposure may cause irritation.

Eye Contact

Slight eye irritation

Immediate Effects

No information on significant adverse effects.

Delayed Effects

No information on significant adverse effects.

Carcinogenicity

Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, NTP, DFG or OSHA.

Other Hazards

No information is available.

Section 12 - ECOLOGICAL INFORMATION

Ecotoxicity

Avoid release to the environment.

Component Analysis - Aquatic Toxicity

No ecotoxicity data are available for this product's components.

Persistence and Degradability

This material is expected to biodegrade.

Bioaccumulative Potential

No data available.

Mobility

No data available.

Section 13 - DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose in accordance with all applicable regulations.

Component Waste Numbers

The U.S. EPA has not published waste numbers for this product's components.

Section 14 - TRANSPORT INFORMATION

US DOT Information

Not regulated as a hazardous material.

ICAO Information

Not regulated as a hazardous material.

Section 15 - REGULATORY INFORMATION

U.S Federal Regulations

FDA: Classified as Generally Regarded as Safe (GRAS)

Component Analysis

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 311/312 (40 CFR 370.21), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or applicable to OSHA process safety management requirements.

Safety Data Sheet

Material Name SORBO® Sorbitol Solution USP/FCC (All Grades)

SARA 311/312 Hazardous Categories

Acute Health: No Chronic Health: No Fire: No Pressure: No Reactive: No

U.S. State Regulations

None of this product's components are listed on the state lists from CA, MA, MN, NJ or PA.

Not regulated under California Proposition 65

Canada Regulations

This product has been classified in accordance with the criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

WHMIS CLASSIFICATION: None

Canadian WHMIS Ingredient Disclosure List (IDL)

Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which fall under WHMIS criteria specified in the Controlled Products Regulations and present above the threshold limits listed on the IDL. The components of this product are either not listed on the IDL or are present below the threshold limit listed on the IDL.

Inventory List

Component Analysis - Inventory

Component	CAS	US	CA	EU	AU	PH	JP	KR	CN	NZ
D-Glucitol	50-70-4	Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	Yes
Water	7732-18-5	Yes	DSL	EIN	Yes	Yes	No	Yes	Yes	Yes

Additional Regulatory Information

EC No. 200-061-5

Section 16 - OTHER INFORMATION

Summary of Changes

New SDS: 10/10/13

Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CFR = Code of Federal Regulations.; CPR - Controlled Products Regulations; CN - China; DOT - Department of Transportation; DSL - Domestic Substances List; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LC50 - Lethal Concentration, 50%; LD50 - Lethal Dose, 50%; LEL - Lower Explosive Limit; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States; WHMIS - Ingredient Disclosure List

Safety Data Sheet

Material Name SORBO® Sorbitol Solution USP/FCC (All Grades)

Other Information

The attached data has been compiled from sources which Ingredion Incorporated and the Ingredion group of companies, believe to be dependable and, to our knowledge and belief is accurate. However, Ingredion Incorporated and the Ingredion group of companies cannot make any warranty or representation respecting the accuracy or completeness of the data. We assume no responsibility for any liability or damages relating thereto, or for advising you regarding the protection of your employees, customers, or others. You should make your own tests to determine the applicability of such information to, or the suitability of any products for your specific use. Ingredion Incorporated and the Ingredion group of companies expressly disclaims all warranties, expressed or implied, including but not limited to, warranties of merchantability, accuracy, fitness for use or for a particular purpose, and noninfringement. The United Nations Convention on Contracts for the International Sale of Goods shall not apply to sales of products by Ingredion Incorporated and the Ingredion group of companies. The INGREDION mark and logo are trademarks of the Ingredion group of companies.

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