



# (Material) Safety Data Sheet

Transport Symbol	WHMIS	NFPA	Personal Protective Equipment
Not controlled	Not controlled		

Original Preparation Date: 29-May-2009

Revision Date: 26-Feb-2013

Revision Number: 1

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

**Product Name:**

Sorbitol 70% Solution

**Product Code:**

177010

**Use of the Substance / Preparation:**

Food Ingredient Food additive

**Contact Manufacturer:**

Archer Daniels Midland Company

4666 Faries Parkway

Decatur, IL 62526, USA

Telephone Number: (+1) 217-424-5200

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

The product contains no substances which at their given concentration, are considered to be hazardous to health.

**Appearance**

Clear Colorless to White

**Physical State**

Viscous liquid

**Odor**

Odorless

This product is NOT classified as hazardous according to 29 CFR 1910, amended to conform to the United Nations' Globally Harmonized System of Classification and Labelling of Chemicals (OSHA / GHS); SOR/88-66, the Canadian Controlled Products Regulations (CPR); and/or NOM-002-SCT-2003 (Mexico).

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical Family**

Alcohols

**Molecular Formula**

C<sub>6</sub>H<sub>14</sub>O<sub>6</sub> . H<sub>2</sub>O

**Non-hazardous Components**

Chemical Name	CAS-No	Weight %	North American Hazard Indicator
D-Glucitol	50-70-4	70	None known
Water	7732-18-5	30	None known

## 4. FIRST AID MEASURES

**Description of first aid measures**

**General Advice** When symptoms persist or in all cases of doubt seek medical advice.

**Eye Contact** Rinse thoroughly with plenty of water, also under the eyelids.

**Skin Contact** Rinse with water.

**Inhalation** Inhalation is not a likely route of exposure. Accidental inhalation should produce no ill effects.

**Ingestion** Health injuries are not known or expected under normal use. Drink plenty of water. If ingested in large amounts, seek medical attention.

**Most important symptoms and affects, both acute and delayed****Eyes** Not expected to pose health issues for the eye.**Skin** Health injuries are not known or expected under normal use.**Inhalation** Health injuries are not known or expected under normal use.**Ingestion** Large oral doses may result in gastrointestinal disturbance. Not expected to pose significant health issues. (Long history of safe use in food)**Indication of any immediate medical attention and special treatment needed****Notes to Physician** Treat symptomatically.**5. FIRE-FIGHTING MEASURES****Flammable Properties**

The product is not readily ignited.

**Extinguishing media****Suitable Extinguishing Media** Carbon dioxide (CO<sub>2</sub>). Alcohol-resistant foam. Dry powder. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.**Unsuitable Extinguishing Media** Do not use a solid water stream as it may scatter and spread fire.**Special hazards arising from the substance or mixture****Hazardous Combustion Products** Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Thermal decomposition can lead to release of irritating gases and vapors, Smoke, Fumes.**Specific Hazards Arising from the Chemical** None known.**Sensitivity to mechanical impact** No information available.**Sensitivity to static discharge** No information available.**Advice for fire-fighters****Protective Equipment and Precautions for Firefighters** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.**NFPA**Health 0  
Flammability 1Stability and Reactivity 0  
Physical hazard None known**6. ACCIDENTAL RELEASE MEASURES****Personal Precautions**

Ensure adequate ventilation. Material can create slippery conditions. Particular danger of slipping on leaked/spilled product. Use personal protective equipment.

**Environmental Precautions**

Prevent further leakage or spillage if safe to do so.

**Methods for Clean-up**

Dam up. Soak up with inert absorbent material.

**7. HANDLING AND STORAGE****Handling**

Handle in accordance with good industrial hygiene and safety practice.

**Storage**

Keep at temperatures above 10°C / 50°F. Keep containers dry and tightly closed to avoid moisture absorption and contamination.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Exposure Limits**

This product is not known to contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Engineering Measures**

Ensure adequate ventilation, especially in confined areas.

**General Hygiene Considerations**

Handle in accordance with good industrial hygiene and safety practice.

**Personal Protective Equipment**

**Eye/face Protection.**

Special protective equipment is generally not required. If exposed to airborne mist, or if splashing is possible, appropriate safety glasses with side-shields or safety goggles are recommended.

**Skin and Body Protection**

Long sleeved clothing. Protective gloves if desired. Special protective equipment is generally not required.

**Respiratory Protection**

In case of insufficient ventilation wear suitable respiratory equipment.



**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance** Clear Colorless to White  
**Physical State** Viscous liquid  
**Odor** Odorless  
**Odor Threshold** No information available  
**pH** approx 6

**Flash Point** Not applicable  
**Autoignition Temperature** No information available  
**Boiling point** 105 °C / 221 °F  
**Melting/Freezing Point** Not applicable  
**Decomposition temperature** No information available  
**Oxidizing Properties** No information available

**Water Solubility** Miscible  
**Evaporation Rate** No information available  
**Vapor Pressure** No information available  
**Vapor Density** Not applicable  
**Specific Gravity / Relative Density** 1.285  
**Partition Coefficient (n-octanol/water)** No information available

**10. STABILITY AND REACTIVITY**

**Stability** Stable under normal conditions.  
**Possibility of Hazardous Reactions** Hazardous polymerization does not occur.  
**Conditions to Avoid** Heat, flames and sparks.  
**Incompatible Materials** No materials to be especially mentioned.  
**Hazardous Decomposition Products** None known

**11. TOXICOLOGICAL INFORMATION**

**Information on toxicological effects**

<b>Acute toxicity</b>		Based on available data, the classification criteria are not met.		
<b>Chemical Name</b>	<b>Weight %</b>	<b>LD50 Oral</b>	<b>LD50 Dermal</b>	<b>LC50 Inhalation</b>
D-Glucitol	70	15900 mg/kg Rat		
<b>Skin corrosion/irritation</b>		Based on available data, not, or only slightly irritating.		

<b>Serious eye damage/eye irritation</b>	Based on available data, not, or only slightly irritating.
<b>Respiratory or skin sensitisation</b>	Based on available data, not expected to be a skin or respiratory sensitiser.
<b>Germ cell mutagenicity</b>	Not expected to be mutagenic. (Long history of safe use in food).
<b>Carcinogenicity</b>	No evidence of carcinogenicity.
<b>Reproductive toxicity</b>	Not expected to be toxic to reproduction. (Long history of safe use in food).
<b>STOT - single exposure</b>	No evidence of toxicity.
<b>STOT - repeated exposure</b>	No evidence of toxicity.
<b>Aspiration hazard</b>	Based on available data, no known aspiration hazard.

**Potential health effects****Eyes**

Not expected to pose health issues for the eye.

**Skin**

Health injuries are not known or expected under normal use.

**Inhalation**

Health injuries are not known or expected under normal use.

**Ingestion**

Large oral doses may result in gastrointestinal disturbance. Not expected to pose significant health issues. (Long history of safe use in food)

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

Contains no substances known to be hazardous to the environment. Contains no substances known to be not degradable in waste water treatment plants.

**Persistence/Degradability**

Readily biodegradable.

**Mobility**

Soluble in water.

## 13. DISPOSAL CONSIDERATIONS

Whenever possible, as rules and regulations allow, please recycle or manage materials to minimize waste.

**Waste Disposal Methods**

Dispose of in compliance with the laws and regulations pertaining to this product in your jurisdiction.

**Contaminated Packaging**

Empty remaining contents. Clean container with water.

## 14. TRANSPORT INFORMATION

**Domestic transport regulations (USA)**

DOT Not regulated

**Domestic transport regulations (Canada)**

TDG Not regulated

**Domestic transport regulations (Mexico)**

MEX Not regulated

**International transport regulations**

ICAO Not regulated

IATA Not regulated

IMDG/IMO Not regulated

<b>15. REGULATORY INFORMATION</b>
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**International Inventories**

The components of this product are reported in the following inventories:

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	AICS	ENCS ISHL	CHINA	PICCS	KECL	NZIoC
D-Glucitol	Yes	Yes	No	Yes 200-061-5	No	Yes	Yes (8)-50	Yes	Yes	Yes KE-31708	Yes

**USA****Federal Regulations****Ozone Depleting Substances:**

No Class I or Class II material is known to be used in the manufacture of, or contained in, this product.

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product is not known to contain any chemicals which are subject to the reporting requirements of the Act or regulations contained in 40 CFR 372.

**SARA 302**

Section 302 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product is not known to contain any chemicals which are subject to the reporting requirements of the Act or regulations contained in 40 CFR 302.

**SARA 311/312 Hazardous Categorization**

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 63)**

This product is not known to contain any HAPS.

**State Regulations****State Right-to-Know**

No known components subject to "Right-To-Know" legislation.

**Canada****WHMIS Product Classification**

Not a WHMIS controlled product.

**WHMIS Ingredient Disclosure List IDL**

No known component is listed on the WHMIS ingredients disclosure list.

**(NPRI) Canadian National Pollutant Release Inventory**

No known component is listed on NPRI.

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

**Mexico**

Mexico - Grade

Minimum risk, Grade 0

<b>16. OTHER INFORMATION</b>
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<b>Prepared By:</b>	Specialty Food Ingredients
<b>Original Preparation Date:</b>	29-May-2009
<b>Revision Date:</b>	26-Feb-2013
<b>Revision Number:</b>	1
<b>Reason for revision:</b>	New SDS format. This version replaces all previous versions.

**Abbreviations and acronyms**

- ACGIH TLV - American Conference of Governmental Industrial Hygienists Threshold Limit Values
- AICS - Australian Inventory of Chemical Substances (Australia)
- CAS - Chemical Abstract Service
- CHINA - Chinese Inventory of Existing Chemical Substances (China)
- DOT - U.S. Department of Transportation
- DSL - Domestic Substance List (Canada)
- EINECS - European Inventory of Existing Commercial Chemical Substances (EU)
- ELINCS - European List of Notified Chemical Substances (EU)
- ENCS - Existing and New Chemical Substances (Japan) / ISHL - Industrial Health and Safety Law (Japan)
- GHS - Globally Harmonized System of Classification and Labelling of Chemicals
- IATA - International Air Transport Association Dangerous Goods Regulations
- ICAO - International Civil Aviation Organisation
- ICL - In Commerce List (Canada)
- IMDG - International Maritime Dangerous Goods Code
- IMO - International Maritime Organization
- KECL - Korean Existing and Evaluated Chemical Substances (Korea)
- LD50 - Median lethal dose of a given test population
- MEX - NOM-002-SCT/2003 List of Hazardous Substances and Materials Most Commonly Transported
- MEXICO - Mexico Occupational Exposure Limits
- NDSL - Non Domestic Substances List (Canada)
- NFPA - National Fire Protection Association
- NIOSH - National Institute of Occupational Safety and Health
- NZIoC - New Zealand Inventory of Chemicals (New Zealand)
- OSHA - Occupational Safety & Health Administration
- OSHA PEL - Occupational Safety and Health Administration Permissible Exposure Limits
- PICCS - Inventory of Chemicals and Chemical Substances (Philippines)
- STOT - Specific Target Organ Toxicity
- TDG - Transportation of Dangerous Goods (Transport Canada)
- TSCA - Toxic Substances Control Act, Section 8(b) Inventory (USA)
- TWA - Time Weighted Average: Average concentration that should not be exceeded during a work day (usually 8-hours)
- WHMIS - Workplace Hazardous Materials Information System

**The information provided on this (M)SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.**

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