

# Material Safety Data Sheet

Material Name: SORBOGEM (TM) Crystalline Sorbitol, NF/FCC (all grades)

Product Code #: NA

MSDS #: SP-002

Revision Date: 06/11/99

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## \*\*\* Section 1 - Chemical Product and Company Identification \*\*\*

**Chemical Name:** Sorbitol

**Product Use:** Various uses      **Synonyms:** Not applicable

### Manufacturer Information

SPI Polyols, Inc.  
321 Cherry Lane  
New Castle, Delaware 19720

### Phone Numbers

**Emergency:** (800) 424-9300 CHEMTREC

**Non-Emergency Safety & Health Information:** (800) 789-9755 Ext. 8692

**Non-Emergency Environmental Information:** (800) 789-9755 Ext. 8736

**Product Information/Customer Service:** (800) 789-9755 Ext. 2159

### General Comments

NOTE: CHEMTREC telephone number is to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure, or accident involving chemicals.

## \*\*\* Section 2 - Composition / Information on Ingredients \*\*\*

CAS #	Component	Percent
50-70-4	Sorbitol	100

### Component Information/Information on Non-Hazardous Components

This product is considered non-hazardous by the criteria specified in 29 CFR 1910.1200 (Hazard Communication).

## \*\*\* Section 3 - Hazards Identification \*\*\*

### Emergency Overview

Product is a non-flammable white crystalline solid. Accumulation of airborne dusts may present an explosion hazard. Eye contact may produce slight irritation.

### Hazard Statements

Dusts may cause slight eye irritation. Accumulation of airborne dusts may present an explosion hazard.

### Potential Health Effects: Eyes

Contact may produce mechanical irritation. Significant irritation would not be expected.

### Potential Health Effects: Skin

No skin irritation can be expected from single short-term exposure to this product. Prolonged or repeated contact may produce some irritation.

### Potential Health Effects: Ingestion

Ingestion of small amounts would not be expected to produce toxicity. However, ingestion of large amounts may produce gastrointestinal disturbances including a laxative action.

### Potential Health Effects: Inhalation

Overexposure to dusts may produce irritation of the respiratory system.

**HMIS Ratings: Health: 0 Fire: 0 Reactivity: 0 Pers. Prot.:** safety glasses with side shields.

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe \* = Chronic hazard

## \*\*\* Section 4 - First Aid Measures \*\*\*

### First Aid: Eyes

Immediately flush eyes with a sufficient amount of water. Seek medical attention if irritation persists.

### First Aid: Skin

For skin contact, wash with soap and water. If irritation develops or persists, seek medical attention.

### First Aid: Ingestion

If material is swallowed in large amounts, get medical attention. Do not induce vomiting unless directed to do so by medical personnel.

### First Aid: Inhalation

If respiratory irritation occurs upon inhalation, remove to fresh air. Seek medical attention if symptoms develop or persist.

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## First Aid: Notes to Physician

None.

### \*\*\* Section 5 - Fire Fighting Measures \*\*\*

**Flash Point:** Not applicable

**Method Used:** Not applicable

**Upper Flammable Limit (UFL):** Not applicable

**Lower Flammable Limit (LFL):** Not applicable

**Auto Ignition:** Not available

**Flammability Classification:** Non-flammable

**Rate of Burning:** Not available

#### General Fire Hazards

Accumulation of airborne dusts may present an explosion or fire hazard in the presence of an ignition source.

#### Hazardous Combustion Products

Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

#### Extinguishing Media

Dry chemical, foam, carbon dioxide, water fog.

#### Fire Fighting Equipment/Instructions

Firefighters should wear full protective clothing including self contained breathing apparatus.

**NFPA Ratings: Health: 0 Fire: 0 Reactivity: 0 Other:**

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

### \*\*\* Section 6 - Accidental Release Measures \*\*\*

#### Containment Procedures

Contain the discharged material. If sweeping of a contaminated area is necessary, use a dust suppressant agent.

#### Clean-Up Procedures

Wear appropriate protective equipment and clothing during clean-up. Sweep up or vacuum spilled material. Use of a moist absorbent is recommended.

#### Evacuation Procedures

None necessary.

#### Special Procedures

None.

### \*\*\* Section 7 - Handling and Storage \*\*\*

#### Handling Procedures

Avoid getting this material into contact with your eyes. Wash thoroughly after handling. Avoid the formation of airborne dusts. This product meets USP specifications but has not been tested for contaminating organisms and is not intended for use in injectable applications.

#### Storage Procedures

Keep container tightly closed and store at room temperature.

### \*\*\* Section 8 - Exposure Controls / Personal Protection \*\*\*

#### Exposure Guidelines

##### A: General Product Information

Exposures should be minimized in accordance with good industrial hygiene practices.

##### B: Component Exposure Limits

ACGIH, OSHA, and NIOSH have not developed exposure limits for any of this product's components.

#### Engineering Controls

Ventilation should be sufficient to effectively remove and prevent buildup of airborne dusts.

#### PERSONAL PROTECTIVE EQUIPMENT

##### Personal Protective Equipment: Eyes/Face

Wear appropriate eye protection.

##### Personal Protective Equipment: Skin

Wear impervious gloves for prolonged contact.

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## Personal Protective Equipment: Respiratory

If ventilation is not sufficient to effectively remove and prevent buildup of dusts, appropriate NIOSH/MSHA approved respiratory protection should be provided.

## Personal Protective Equipment: General

Use good industrial hygiene practices in handling this material.

### \*\*\* Section 9 - Physical & Chemical Properties \*\*\*

<b>Appearance:</b>	White crystalline granules or powder	<b>Odor:</b>	None
<b>Physical State:</b>	Solid	<b>pH:</b>	Not applicable
<b>Vapor Pressure:</b>	Not applicable	<b>Vapor Density:</b>	Not applicable
<b>Boiling Point:</b>	Not applicable	<b>Melting Point:</b>	Not available
<b>Solubility (H2O):</b>	Soluble	<b>Specific Gravity:</b>	1.28
<b>Freezing Point:</b>	Not applicable	<b>Particle Size:</b>	Not available
<b>Softening Point:</b>	Not available	<b>Evaporation Rate:</b>	Not applicable
<b>Viscosity:</b>	Not applicable	<b>Bulk Density:</b>	Not available
<b>Percent Volatile:</b>	Not applicable	<b>Molecular Weight:</b>	182.17

## Physical Properties: Additional Information

None.

### \*\*\* Section 10 - Chemical Stability & Reactivity Information \*\*\*

#### Chemical Stability

Stable

#### Chemical Stability: Conditions to Avoid

Avoid accumulation of airborne dusts.

#### Incompatibility

This product may react with oxidizing agents.

#### Hazardous Decomposition

Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

#### Hazardous Polymerization

Hazardous polymerization will not occur.

### \*\*\* Section 11 - Toxicological Information \*\*\*

#### Acute Toxicity

##### A: General Product Information

Sorbitol overexposure may produce some discomfort and gastrointestinal disturbances but symptoms are reversible and usually disappear when exposure stops.

##### B: Component Analysis - LD50/LC50

###### Sorbitol (50-70-4)

Oral LD50 Mouse: 17800 mg/kg

Oral LD50 Rat: 15900 mg/kg

#### Carcinogenicity

##### A: General Product Information

No carcinogenicity data available for this product.

##### B: Component Carcinogenicity

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

#### Epidemiology

No epidemiological data is available for this product.

#### Neurotoxicity

No data available for this product.

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## Mutagenicity

No data available for this product.

## Teratogenicity

No data available for this product.

## Other Toxicological Information

None available.

### \*\*\* Section 12 - Ecological Information \*\*\*

## Ecotoxicity

No data available for this product.

## Environmental Fate

No data available for this product.

### \*\*\* Section 13 - Disposal Considerations \*\*\*

## US EPA Waste Number & Descriptions

### A: General Product Information

Empty container retains product residue. Do not distribute, make available, furnish or reuse empty container except for storage and shipment of original product. Empty container, remove all product residue. Puncture or otherwise destroy empty container before disposal.

### B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

## Disposal Instructions

All wastes must be handled in accordance with local, state and federal regulations.

### \*\*\* Section 14 - Transportation Information \*\*\*

## US DOT Information

**Shipping Name:** Not regulated

**Hazard Class:** Not regulated

**UN/NA #:** None

**Packing Group:** None

**Required Label(s):** None

**Additional Info.:** None

## International Transportation Regulations

Not regulated as dangerous goods.

### \*\*\* Section 15 - Regulatory Information \*\*\*

## US Federal Regulations

### A: General Product Information

No information available.

### B: Component Analysis

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

## State Regulations

### A: General Product Information

No information available.

### B: Component Analysis - State

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

## Other Regulations

### A: General Product Information

None.

### B: Component Analysis - Inventory

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Component	CAS #	TSCA	DSL	EINECS
Sorbitol	50-70-4	Yes	Yes	Yes

**C: Component Analysis - WHMIS IDL**

No components are listed in the WHMIS IDL.

**\*\*\* Section 16 - Other Information \*\*\***

**Other Information**

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use.

**Key/Legend**

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; NFPA = National Fire Protection Association; HMIS = Hazardous Material Identification System; CERCLA = Comprehensive Environmental Response, Compensation and Liability Act; SARA = Superfund Amendments and Reauthorization Act; DSL = Canadian Domestic Substance List; EINECS = European Inventory of New and Existing Chemical Substances; WHMIS = Workplace Hazardous Materials Information System