



**KASYAP**  
SWEETNERS LIMITED  
SPREADING THE SMILES

## **MATERIAL SAFETY DATA SHEET**

### **SORBITOL SOLUTION 70%**

Document No. : KSL/General/ 044-A  
Effective Date : April 2009  
Next Review Date : April 2014  
Supersedes Document No. : N/A  
Change : N/A  
Reason for Change : N/A  
Purpose : To apprise the internal team and consumer's team about the safety aspects.  
Responsibility : Incharges / Works Manager  
Precautions : N/A

## **1. Product Identification**

Synonyms: D-Glucitol CAS No.: 50-70-4  
Molecular Weight: 182.17 Molecular Formula: C<sub>6</sub> H<sub>14</sub> O<sub>6</sub>  
Relative Density: 1.2850 at 77 deg.F. Viscosity: 185 CentiPoise at 68 deg.F.

## **2. Composition/Information on Ingredients**

Ingredient	CAS No	Percent	Hazardous
Sorbitol	50-70-4	70%	No

## **3. Hazards Identification**

### **Emergency Overview**

Prevent unnecessary exposure to other chemicals, Gas, Vapors, Oils, unhygienic atmosphere, direct sun rays. The product Sorbitol is not Reactive. It does not have any flammability rating. Standard safety gadgets like Goggles, gloves etc. to be used while handling





**KASYAP**  
SWEETNERS LIMITED  
SPREADING THE SMILES

## Potential Health Effects

### **Skin Contact:**

No adverse effects expected. But wash the infected part with copious amount of water

### **Inhalation:**

No adverse health effects expected from inhalation. It does not have any odour.

### **Ingestion:**

Large doses may cause gastro-intestinal upset. Direct dose must be avoided.

### **Eye Contact:**

No adverse effects expected. But wash the eye with copious amount of water incase of accidental exposure. Give immediate specific medical aid if irritation persists.

### **Chronic Exposure:**

No information found.

## 4. First Aid Measures

### **Inhalation:**

Non-Toxic. Give medical attention incase of any breathing difficulty.

### **Ingestion:**

If large amounts were swallowed, give water to drink and get

### **Skin Contact:**

No adverse effects expected. But wash the infected part with copious amount of water medical advice.

### **Eye Contact:**

Wash thoroughly with copious amount of water. Get medical advice if irritation develops.





**KASYAP**  
SWEETNERS LIMITED  
SPREADING THE SMILES

## **5. Fire Fighting Measures**

**Fire:**

Non-Flammable as such in liquid form.

**Fire Extinguishing Media:**

Water spray, dry chemical, alcohol foam, or carbon dioxide incase it burns along with some other substance.

## **6. Accidental Release Measures**

Cordon off the area. Remove all sources of ignition. Remove any other substances from that area. Only the authorized persons should remain at the site. Ventilate the area to the maximum possible. Wear appropriate personal protective equipment and safety gadgets. Clean up the spilled material such that it causes no harm. Pick up the spilled material for recovery or disposal and place in a closed container.

## **7. Handling and Storage**

An be kept in HM-HDPE barrels with self bung as well as external metallic seal or the bung cap is shrink wrapped. To be stored in a ventilated area preferably away from the direct sunlight. Barrels to be protected against physical damage. Can be stored in stainless steel tanks (AISI 304 or AISI 316) with all contact parts also of the same material. When stacked barrels must not be put one over the other. Can be stored under ambient condition. Best recommended is at room temperature.

The barrels must be kept upright with its mouth at the top. Barrels must not be dropped from a height more than 3 feet. Rolling of them, if required may be done, but must be done only on a leveled road or surface. If rubber hose pipe is required to be used for handling then it must be ensured that the rubber is of food grade and the hope pipe should first be sanitized.

## **8. Exposure Controls/Personal Protection**

**Airborne Exposure Limits:**

None established as Sorbitol is a humectants and is not volatile in nature.





**KASYAP**  
SWEETNERS LIMITED  
SPREADING THE SMILES

**Ventilation System:**

Not expected to require any special ventilation.

**Personal Respirators (NIOSH Approved):**

Not expected to require personal respirator usage.

**Skin Protection:**

Wear protective gloves and clean body-covering clothing.

**Eye Protection:**

Use chemical safety goggles

## **9. Physical and Chemical Properties**

**Appearance:**

Clear, Colorless, Viscous, Odourless Syrupy Liquid with sweet taste.

**Odor:**

Odorless.

**Solubility:**

Freely soluble in Water, Ethanol, Methanol, Acetic Acid.

**Specific Gravity:**

1.285 @ 25 deg C. Temp.

**PH:**

In the range 5.5 to 7.5

**% Volatiles by volume @ 21C (70F):**

0

**Boiling Point:**

295C (563F)





## 10. Stability and Reactivity

### **Stability:**

Very stable against heat, weak acids & weak alkalis. It is non-fermentable and hence bacteriologic ally extremely stable.

### **Hazardous Decomposition Products:**

Does not decompose under atmospheric conditions.

### **Hazardous Polymerization:**

Will not occur.

### **Incompatibilities:**

Strong oxidizers.

### **Conditions to Avoid:**

Heat, moisture, air, incompatibles.

## 11. Toxicological Information

Oral rat LD50: 15900 mg/kg. Investigated as a mutagen.

-----\Cancer Lists\-----

---NTP Carcinogen---

Ingredient	Known	Anticipated	IARC Category
------------	-------	-------------	---------------

Sorbitol (50-70-4)	No	No	None
--------------------	----	----	------

## 12. Ecological Information

### **Environmental Fate:**

No information found.

### **Environmental Toxicity:**

No information found.





**KASYAP**  
SWEETNERS LIMITED  
SPREADING THE SMILES

## **13. Disposal Considerations**

To be disposed in an approved Effluent treatment plant under controlled & appropriate conditions and process approved by the local Pollution Control Board. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents to be done in accordance with federal, state and local requirements.

## **14. Transport Information**

To be transported in properly closed & sealed stainless steel tanks mounted on trucks. The tanks must be nomenclatured appropriately with proper information regarding contact persons / contact numbers incase of any eventuality. If transported in HMHDPE Barrels, then not more than two barrels should be put one over the other.

## **15. Regulatory Information**

The Quality is regulated by Indian Pharmacopoeia (I.P.), British Pharmacopoeia, US Pharmacopoeia, European Pharmacopoeia

## **16. Other Information**

### **Label Hazard Warning:**

As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing.

### **Label Precautions:**

None.





**KASYAP**  
SWEETNERS LIMITED  
SPREADING THE SMILES

**Label First Aid:**

Not applicable.

**Product Use: Industrial chemical.**

**Disclaimer:**

**Kasyap Sweeteners Limited, India provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.**

