

MALTITOL SYRUP

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1. IDENTIFICATION

Product Name	Maltitol Syrup
Uses	Food applications; Food & beverages, confectioneries, Cosmetics and Excipient in pharmaceutical industries
Chemical family	Sugar alcohols and Polyols.
Chemical name	Maltitol Syrup
Produce description	Maltitol is a sugar alcohol, produced through hydrogenation of rice glucose in a state of the art plant at ACT Polyols. The product is certified for FSSC-22000. Halal- PS-3733-2019, Non-GMO, Kosher and Vegan certifications and cGMP.
Contact information:	
Company:	ACT Polyols Private Ltd
Factory address:	Plot C-191, Street No 11th Site Nooriabad Sindh, Pakistan
Head office:	Suite 1002, 16th Floor, Emerald Towers near 2 Talwar Clifton Karachi, Pakistan
Telephone:	+92-21-35147573-74
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2. HAZARD IDENTIFICATION

Poisons Schedule	Not Scheduled
Globally Harmonized System Hazard Classification Labelling of Chemicals (GHS)	NOT hazardous according to the criteria of the Globally Harmonized System
Signal Word	None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Maltitol	C ₆ H ₁₄ O ₄	50-70-4	50 %
Water	H ₂ O	7732-18-5	50 %

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Swallowed	IF SWALLOWED: Rinse mouth. Do not induce vomiting. Get medical advice/attention if a large amount is swallowed or if you feel unwell.
Eye	IF IN EYES: Immediately flush eyes with running water for several minutes, holding eyelids open and occasionally lifting the upper and lower lids. Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes. If eye irritation persists, get medical advice/attention.
Skin	IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation occurs, get medical advice/attention.
Inhaled	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If respiratory symptoms persist, get medical advice/attention. Apply resuscitation if victim is not breathing - Administer oxygen if breathing is difficult.
Advice to Doctor	Treat symptomatically.
Medical Conditions Aggravated by Exposure	No information available.

5. FIRE FIGHTING MEASURES

General Measures	If safe to do so, move undamaged containers from fire area. Cool containers with water spray until well after fire is out.
Flammability Conditions	The product is capable of burning but not readily ignited.
Extinguishing Media	Use dry chemical, Carbon dioxide (CO ₂), alcohol-resistant foam or water spray for extinction. Use extinguishing media suitable for surrounding fire.
Fire and Explosion Hazard	Containers may explode when heated.
Hazardous Products of Combustion	
Special Fire Fighting Instructions	Low molecular weight hydrocarbons. Fire may produce irritating, toxic and/or corrosive fumes, including Carbon oxides control or dilution water - Runoff may pollute waterways.

Personal Protective Equipment	Wear self-contained breathing apparatus (SCBA) and chemical splash suit. SCBA and structural firefighter's uniform may provide limited protection.
Flash Point	No Data Available
Lower Explosion Limit	No Data Available
Upper Explosion Limit	No Data Available
Auto Ignition Temperature	No Data Available
Hazchem Code	No Data Available

6. ACCIDENTAL RELEASE MEASURES

General Response Procedure	Ensure adequate ventilation. Do not touch or walk through spilled material. Avoid breathing mist/vapors and contact with eyes, skin and clothing.
Clean Up Procedures	Absorb with earth, sand or other non-combustible material and transfer to a suitable container for disposal (see SECTION 13).
Containment	Stop leak if safe to do so - Prevent entry into waterways, drains or confined areas.
Decontamination	Wash area down with excess water.
Environmental precautionary Measures	Prevent entry into drains and waterways.
Evacuation Criteria	Spill or leak area should be isolated immediately. Keep unauthorized personnel away.
Personal Precautionary Measures	Use personal protective equipment as required (see SECTION 8).

7. HANDLING AND STORAGE

Handling	Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Avoid breathing mist/vapors/aerosols and contact with eyes, skin and clothing. Do not ingest. Use personal protective equipment as required (see SECTION 8).
Storage	Maltitol is stable at ambient conditions (between 25 - 40 °C). Store the product under shed and avoid exposure to direct sunlight. Keep container tightly closed until ready for use. Protect against physical damage. Keep away from heat and sources of ignition - No smoking. Keep away from incompatible materials (see SECTION 10).
Container	Keep in the original container, plastic drum, IBC or other suitable packaging.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General	No specific exposure standards are available for this product.
Exposure Limits	No Data Available
Biological Limits	No information available.
Engineering Measures	A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.
Personal Protection Equipment -	Respiratory protection: In case of inadequate ventilation, wear respiratory protection. Recommended: Organic vapor/particulate filter respirator (refer to AS/NZS 1715 & 1716). Eye/face protection: Wear appropriate eye protection to avoid eye contact. Recommended: Safety glasses with side-shields. Hand protection: Handle with gloves. Recommended: Impervious gloves. Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact. Recommended: Long sleeved clothing.
Special Hazards Precautions	No information available.
Work Hygienic Practices	Do not eat, drink or smoke when using this product. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance	Clear liquid
Odour	Odourless to slightly sweet
Colour	Colourless to yellowish
pH	5.0 - 7.5
Vapour Pressure	No Data Available Relative
Vapour Density	No Data Available
Boiling Point	105 °C
Melting Point	No Data Available
Freezing Point	No Data Available
Solubility	Miscible with water
Specific Gravity	≥1.295
Flash Point	No Data Available
Auto Ignition Temp	No Data Available
Evaporation Rate	No Data Available
Bulk Density	No Data Available
Corrosion Rate	No Data Available
Decomposition tem.	No Data Available
Density	1.2 - 1.3 g/mL
Specific Heat	No Data Available
Molecular Weight	No Data Available
Net Propellant Wt.	No Data Available
Octanol Water Co.	No Data Available
Particle Size	No Data Available
Partition Coefficient	No Data Available
Saturated Vapour	No Data Available
Vapour Temperature	No Data Available
Viscosity	110 - 180 cps (@ No Data Available)
Volatile Percent	30 %
VOC Volume	No Data Available
Additional Characteristics	No information available.
Potential for Dust Explosion	Not applicable.

10. STABILITY AND REACTIVITY

General Information	This product is stable for two year when stored under recommend conditions.
Chemical Stability	Stable under ordinary conditions of use and storage.
Conditions to Avoid	Keep away from heat and sources of ignition.
Materials to Avoid	Incompatible/reactive with oxidizing agents, strong alkalis, non-stainless metal.

Hazardous Decomposition Products:

Fire thermal decomposition may produce irritating, toxic and or corrosive fumes including carbon oxides and/ or low molecular weight hydrocarbon.

Hazardous Polymerization:

Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

General Information	Information on possible routes of exposure:
Ingestion:	No hazard known by ingestion. Single oral doses of greater than 50 grams may have a laxative effect.
Eye contact:	May cause slight to moderate irritation in sensitive individuals.
Skin contact:	No hazard known by contact with the skin.
Inhalation:	No hazard known by inhalation. Mists/aerosols may cause respiratory irritation.
Chronic effects:	No information available.
Carcinogen Category:	None

12. ECOLOGICAL INFORMATION

Ecotoxicity	Contains no substances known to be hazardous to the environment.
Persistence/Degradability	The material is biodegradable.
Mobility	No information available.
Environmental Fate	Prevent entry into drains and waterways.
Bioaccumulation Potential	No information available.
Environmental Impact	No Data Available

13. DISPOSAL CONSIDERATIONS

General Information	Dispose of contents/container in accordance with local/regional/national regulations.
Special Precautions for Land Fill	No information available.

14. TRANSPORT INFORMATION

General	Not Classified As Hazardous For Transport
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15. REGULATORY INFORMATION

Federal and State Regulations;	Not Applicable Since This Product Is Non-Hazardous
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16. OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. ACT Polyols (PVT) Ltd. shall not be held liable for any damage resulting from handling or from contact with the above product. Visit www.actpolyols.actgroup.com.pk for more information.