

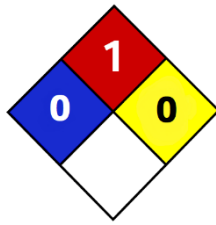


Safety Data Sheets (SDS)	Number:051402013/01		181402002/00
Scope: Farhikhtegan Zarnam Industrial and Research Group	Date:2023/02/26		

1- Product and Company Identification

Trade Name	Powder Maltodextrin
Company name and address	Zar grain refinery, Hashtgerd city, Karaj-Qazvin freeway, Alborz, Iran
Phone	026-43212000
Fax	026-43212027
Email	info@zarfructose.com

2- Hazards Identification

Corrosive	Health hazard	Flammable	Toxic	Hazard diamond
-	-		-	
Oxidizing	Explosive	Environmental hazard	Harmful	Compressed Gas
-	-	-	-	-


Eye Contact	May cause slight irritation
Skin Contact	May cause slight skin irritation
Ingestion	Health injuries are not known or expected under normal use
Inhalation	May cause irritation of respiratory tract
Risk of Fire	Fine dust dispersed in air may ignite
Risk of Explosion	Formation of dust cloud of the substance can lead to explosive atmospheres.
Environmental hazard	Contains no substances known to be hazardous to the environment


3- Composition / Information on Ingredients

Chemical Name	Synonyms	(CAS) Number and other Unique Identifiers	Chemical Formula	Percent
Powder Maltodextrin	-	9050-36-6	(C ₆ H ₁₀ O ₅) _n	100


4- First Aid Measures

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

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Inhalation	Move to fresh air	
Ingestion	Health injuries are not known or expected under normal use. In case of having ingested an excess or if there is irritation, do not induce vomiting. In case of unconscious person, do not administer anything orally. In case of persistent discomfort, receive immediate medical attention and, if necessary, special treatment.	
Medical Information	-	


5- Fire Fighting Measures

Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water.	
Special Hazards Arising from the Chemical	Fine dust dispersed in the air may ignite. The risk of explosion should be prevented by avoiding the accumulation of dust.	
Special Protective Equipment and Precautions For Fire Fighters	As in any fire, wear self-contained breathing apparatus pressure demand, MSHA/NIOSH (approved or equivalent) and full protective gear.	
Other Information	-	

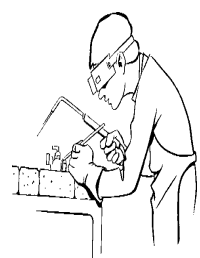
6- Accidental Release Measures


Small Spill	Use a simple mask to protect dust, gloves and eye protection equipment. Contain the material in appropriate container or containers. Eliminate possible sources of ignition.
Large Spill	Lift and dispose carefully without creating dust. Sweep / vacuum and dispose in a suitable container. Dust collectors must be equipped with safety devices that prevent or reduce the risk of explosion.

7- Handling and Storage

Precautions For Safe Handling:	Use personal protective equipment for handling (dust mask, gloves and lenses). Use with adequate ventilation. Avoid dust formation. Keep containers closed when not in use. Avoid any possible source of ignition. It is recommended to wash your hands before and after handling the product.	
Storage:	Keep containers tightly closed in a dry, cool and well-ventilated place	

8- Exposure Controls/Personal Protection

Skin Protection	Use nitrile or rubber protective gloves.	
Eye Protection	Safety glasses with side-shields	
Body Protection	Long sleeved clothing	
Respiratory Protection	In case of insufficient ventilation wear suitable respiratory equipment	

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Appropriate Engineering Controls	Use adequate ventilation	
Exposure Limits	ACGIH TLV: TWA: 10 mg/m³ (total) TWA: 3 mg/m³ (inhalable) OSHA PEL: TWA: 15 mg/m³ (total) TWA: 5 mg/m³ (inhalable)	

9- Physical and Chemical Properties


Appearance	Fine Powder
Physical State	Solid
Color	White
Odor	Odorless
Solubility	Soluble in water
Bulk Density	500 – 550 kg/m³
Auto-ignition Temperature	-
Flash point	-
Melting Point	-
Boiling Point	-
Vapor pressure	-
Viscosity	-
Molecular Weight	-
PH	4-7
Other Information	-

10- Stability and Reactivity

Stability	The product is stable under storage at normal ambient temperatures.
Conditions to Avoid	Avoid generation of dust, confinement, oxygen source and source of ignition.
Incompatible Materials	Strong oxidizing agents
Possibility of Hazardous Reactions	-
Other Information	-


11- Toxicological Information

Possible exposure routes	Eyes	-	
	Skin	-	
	Inhalation	-	
	Ingestion	-	
Acute and Chronic Toxicity	-		

Safety Data Sheets (SDS)	Number:051402013/01	 <small>گروه صنعتی پژوهش و تحقیقات زارنام (سوانامی زارنام) FARHOKHTEGAN ZARNAM RESEARCH & INDUSTRIAL GROUP</small>	181402002/00
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Other Toxicity Information	-
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12- Ecological Information

Eco toxicity	Avoid uncontrolled release to the environment	
Persistence and degradability	-	
Bioaccumulation potential	-	
Mobility in soil	-	
Other adverse effects	-	

13- Disposal Considerations

Waste	Dispose of unused content, in accordance with national and local regulations.
Product Containers	Discard the unused container, in accordance with national and local regulations. Be sure to use duly authorized waste management companies, if applicable.


14- Transport Information

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15- Regulatory information

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16- Other information

ACGIH: Association Advancing Occupational and Environmental Health TLV: Threshold Limit Values OSHA: Occupational Safety and Health Administration PEL: Permissible Exposure Limits TWA: Time-Weighted Average. Average value of exposure over the course of an 8 hour work shift. NIOSH: National Institute for Occupational Safety and Health MSHA: Mine Safety and Health Administration	
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