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Ingredion™

Material Safety Data Sheet

Globe® Plus 10 DE Maltodextrin 100200
PRODUCT INFORMATION

Product Identity	Globe® Plus 10 DE Maltodextrin 100200	
Product Use	Food Application	
Company	Ingredion Incorporated 5 Westbrook Corporate Center Westchester, IL 60154 USA Info/Emergency Phone: (708) 551-2600 Fax: (708) 551-2510 Business Hours: Mon - Fri, 7:30 a.m. – 5:00 p.m. (Central Time)	Ingredion Canada Incorporated 1600-90 Burnhamthorpe Road West Mississauga, ON L5B 0H9 Canada Info/Emergency Phone: (905) 281-7950 Fax: (905) 281-7951 Business Hours: Mon - Fri, 7:30 a.m. – 6:00 p.m. (E.S.T)

COMPOSITION/INFORMATION ON INGREDIENTS

Substance	% or Range	CAS Number	INICS Number	Toxicology Data
Maltodextrin	≤100	9050-36-6	232-940-4	LD ₅₀ : No data available LC ₅₀ : No data available

HAZARDS IDENTIFICATION

Toxicity	Inhalation of dust may irritate the nose, throat, and upper respiratory tract. Skin contact is not known to be hazardous to health. Eye contact may cause mild transient irritation. Ingestion of quantities sufficient to produce health effects is not a plausible route of exposure in industrial use.
Reactivity	Product is non-reactive under foreseeable conditions of use.
Flammability	See <i>Fire and Explosion Hazards and Firefighting Measures</i> .
Corrosivity	This product is non-corrosive
S Phrase(s)	None designated
R Phrase(s)	None designated.

FIRST AID MEASURES

Inhalation	Remove the subject from the source of exposure.
Skin Contact	Wash affected area with water.
Eye Contact	Flush eyes with water for at least fifteen minutes. Seek medical assistance, if necessary.
Ingestion	If the product is accidentally ingested, seek medical attention.

FIRE AND EXPLOSION HAZARDS AND FIREFIGHTING MEASURES

Hazards	High concentrations of product dust from this product may burn explosively if ignited by static charges or other ignition sources. The conditions under which this may occur are not readily predictable. Avoid open flames, electrical arcs, static electricity, and/or welding in areas of excessive dusting. Ensure that conveying and handling equipment is securely grounded. Fire and explosions may release carbon monoxide, smoke, and irritant combustion byproducts.		
Extinguishing media	Water, carbon dioxide, or dry chemical.		
Fire and Explosion Hazards Data	Flashpoint:	No data available	Autoignition temperature: No data available
	Lower Explosive Limit:	No data available	Upper Explosive Limit: No data available

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PREVENTIVE MEASURES

◆ Accidental Release Measures

Control Measures	Eliminate sources of ignition and static charge. Dry sweep spilled material to impervious containers. Avoid direct release to environmental media.
Personal Protection	Avoid contact with skin, eyes, and mucous membranes. Protective equipment is not required for clean up unless high dust levels exist. In such cases, wear respiratory protection appropriate for particulate matter in air, and that is approved and qualified.
Environmental Precautions	Dispose of residues in compliance with applicable national, state/provincial, and local regulations.

◆ Handling and Storage

Handling	Avoid contact with eyes and mucous membranes. Avoid creating dust clouds.
Storage	Store in a cool, dry place away from sources of ignition and incompatible materials (see Stability and Reactivity for incompatible materials). Store in a tightly closed container and protected from light.

◆ Exposure Controls and Personal Protection

Engineering Controls	Where use of the product may generate airborne dust, use appropriate measures such as local exhaust ventilation to maintain air concentrations of the components to within their respective exposure limits.
Respiratory Protection	If any exposure level exceeds a permissible limit, use a respirator having a configuration (class, face piece, filter, etc.) appropriate to the concentration and approved and qualified for the application.
Eye Protection	Wear appropriate eye protection such as goggles or glasses if there is the potential for eye contact with the product.
Skin Protection	Skin protection is not normally required. If it is desired, cloth or synthetic gloves are suitable.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Form:	Crystalline Powder	Color/colour:	White	Odor/odour:	None or faint cereal-like	
	Moisture %:	≈6.0	Packing Density:	448 – 608 kg/m ³ (28 – 38 lbs./ft ³)	Water Solubility:	Not Soluble	
	Physical Data	pH Value:	Not applicable	Minimum Ignition Energy:	>500 milliJoules (mJ)	Minimum Ignition Temperature (dust cloud):	460-500°C

STABILITY AND REACTIVITY

Conditions to avoid	This product is stable under normal conditions of temperature and pressure.
Materials to avoid	Oxidizing/oxidising agents
Decomposition products	Carbon monoxide; carbon dioxide; irritant gasses, and smoke
Dangerous polymerization/polymerisation	Will not occur.
Dangerous reactions	None are known or reasonably foreseeable

TOXICOLOGICAL INFORMATION

Health Hazards of Product	Routes of Entry:	Inhalation and ingestion. Not absorbed through skin or mucous membranes.
	Acute Effects:	Inhalation may irritate the nose, throat, and respiratory tract. Eye contact may cause mild

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transient irritation. Ingestion of quantities sufficient to produce adverse health effects is not a plausible route of exposure in industrial use. Skin contact is not known to be hazardous.

Chronic Effects:	Adverse effects from chronic inhalation or ingestion are not known.		
Exposure Limits	ACGIH TLVs, as Particulates Not Otherwise Classified:	10 mg/m ³ (inhalable fraction) 3 mg/m ³ (respirable fraction)	OSHA PELs, as Particulates Not Otherwise Regulated:
			15 mg/m ³ (total dust) 5 mg/m ³ (respirable fraction)
Carcinogenicity	IARC:	No	NTP (USA): No
	ACGIH:	No	OSHA (USA): No
Reproductive Toxicity	Product is not classified as a reproductive toxin by any authoritative body or regulatory agency.		

ECOLOGICAL INFORMATION

In its intended manner of use, this product should not be released directly into environmental media. However, it is readily biodegradable in the natural environment.

TRANSPORT INFORMATION

Shipment of this product is not controlled by ICAO, USDOT, or Mexican NOM-004-SCT-2000 regulations.

REGULATORY INFORMATION

United States	TSCA:	All constituents are on EPA's TSCA inventory.
	CERCLA:	Contains no reportable quantity (RQ) substances per Sections 302/304 of EPA.
	SARA:	Contains no chemicals subject to the reporting requirements of Section 313 of EPA.
	FDA:	Classified as Generally Regarded as Safe (GRAS)
Canada	WHMIS Classification(s):	Not applicable
	DSL:	Product is included.
	Food and Drug Act:	Product is regulated as standard foodstuff.
Europe	Exempt from OECD (793/93/EEC) List for Evaluation of High Production Volume (HPV) Chemicals	
	EU EINECS 232-679-6	
Elsewhere	Present on Japan (ENCS), Philippines (PICCS) and Australia (AICS) Inventory Lists Present on China's Product Inventory List	

PREPARATION INFORMATION

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