

SAFETY DATA SHEET

Creation Date 05-Feb-2010

Revision Date 24-Dec-2021

Revision Number 4

Product Name	D-Mannitol
Cat No. :	BP686-500; M120-3; M120-3LC; M120-60; M120-500; M124-12; M124-50; M124-212; M124-500; M125-12; M125-212; XXBA125
CAS No	69-65-8
Synonyms	Mannite; Manna Sugar (Powder/USP/EP/BP/JP/Certified ACS)
Recommended Use	Laboratory chemicals.
Uses advised against	Food, drug, pesticide or biocidal product use.

<u>Company</u> Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

Emergency Telephone Nu	umber
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CHEMTREC®, Inside the USA: 800-424-9300 CHEMTREC®, Outside the USA: 001-703-527-3887

2. Hazard(s) identification

Classification

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements None required

Hazards not otherwise classified (HNOC) None identified

3. 0	compositio	on/Information on Ingred	lients
Component		CAS No	Weight %
D-Mannitol		69-65-8	100
	4.	First-aid measures	
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.		
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.		
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur.		
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.		
Most important symptoms and effects	None reasonably foreseeable.		
Notes to Physician	Treat sympto	matically	
	5. Fi	re-fighting measures	

Suitable Extinguishing Media	Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.
Unsuitable Extinguishing Media	No information available
Flash Point	No information available 149 °C / 300.2 °F
Method -	No information available
Autoignition Temperature Explosion Limits	No information available
Upper Lower Sensitivity to Mechanical Impac Sensitivity to Static Discharge	No data available No data available t No information available No information available

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO₂).

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA Health Flammability 0 1		Instability 0	Physical hazards N/A
	6. Accidental re	lease measures	
Personal Precautions	Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.		
Environmental Precautions	Should not be released into the environment. See Section 12 for additional Ecological Information.		

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Up

	7. Handling and storage
Handling	Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation.
Storage.	Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Strong oxidizing agents.
8. E	xposure controls / personal protection
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.
Engineering Measures	None under normal use conditions.
Personal Protective Equipment	
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	No protective equipment is needed under normal use conditions.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

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9.	PHYSICa	li anu	Chemica	properties

Appearance Odor Odor Threshold pH Melting Point/Range Boiling Point/Range	Solid White Odorless No information available 165 - 170 °C / 329 - 338 °F No information available 295 °C / 563 °F No information available 149 °C / 300.2 °F
Odor Odor Threshold pH Melting Point/Range Boiling Point/Range	Odorless No information available No information available 165 - 170 °C / 329 - 338 °F No information available 295 °C / 563 °F No information available 149 °C / 300.2 °F
Odor Threshold pH Melting Point/Range Boiling Point/Range	No information available No information available 165 - 170 °C / 329 - 338 °F No information available 295 °C / 563 °F No information available 149 °C / 300.2 °F
pH Melting Point/Range Boiling Point/Range	No information available 165 - 170 °C / 329 - 338 °F No information available 295 °C / 563 °F No information available 149 °C / 300.2 °F
Melting Point/Range Boiling Point/Range	165 - 170 °C / 329 - 338 °F No information available 295 °C / 563 °F No information available 149 °C / 300.2 °F
Boiling Point/Range	No information available 295 °C / 563 °F No information available 149 °C / 300.2 °F
Boiling Point/Range	No information available 149 °C / 300.2 °F
Flash Point	
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
• •	Partially soluble
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
	No information available
	Not applicable
•	C6 H14 O6
Molecular Weight	182.17

10. Stability and reactivity

Reactive Hazard	None known, based on information available	
Stability	Stable under normal conditions.	
Conditions to Avoid	Incompatible products. Excess heat. Avoid dust formation.	
Incompatible Materials	Strong oxidizing agents	
Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2)		
Hazardous Polymerization	Hazardous polymerization does not occur.	
Hazardous Reactions	None under normal processing.	

11. Toxicological information

Acute Toxicity

Product Information

Component		LD50 Oral		LD50 Dermal	LC50	LC50 Inhalation	
D-Mannitol LD50 = 13500 mg/kg (Rat)		Rat)	Not listed		ot listed		
Toxicologically Syno Products Delayed and immed	-	No information ava		nd long-term expo	osure_		
Irritation		No information ava	ailable				
Sensitization		No information ava	ailable				
Carcinogenicity		The table below in	dicates whether e	ach agency has lis	ted any ingredient	as a carcinog	
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico	
D-Mannitol	69-65-8	Not listed	Not listed	Not listed	Not listed	Not listed	
Reproductive Effect Developmental Effect Feratogenicity		No information available. No information available. No information available.					
STOT - single exposure STOT - repeated exposure		None known None known					
Aspiration hazard		No information available					
Symptoms / effects,both acute and delayed		No information available					
Endocrine Disruptor Information		No information available					
	ts	The toxicological p	properties have no	t been fully investig	gated.		
Other Adverse Effec							
Other Adverse Effec		12. Ecolo	ogical infor	mation			

Persistence and Degradability

No information available

Bioaccumulation/ Accumulation	No information available.	
Mobility	No information available.	
	13. Disposal considerations	
Waste Disposal Methods	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.	
	14. Transport information	
DOT	Not regulated	
TDO	Not regulated	

TDG	Not regulated
ΙΑΤΑ	Not regulated
IMDG/IMO	Not regulated

15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
D-Mannitol	69-65-8	Х	ACTIVE	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

Not applicable TSCA 12(b) - Notices of Export

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
D-Mannitol	69-65-8	Х	-	200-711-8	Х	Х	Х	Х	Х	KE-23061

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA - Occupational Safety and Health Administration	Not applicable
CERCLA	Not applicable
California Proposition 65	This product does not contain any Proposition 65 chemicals.
U.S. State Right-to-Know	Not applicable

Regulations

U.S. Department of Transportation Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
Other International Regulations	
Mexico - Grade	Slight risk, Grade 1

Authorisation/Restrictions according to EU REACH

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
D-Mannitol	69-65-8	Not applicable	Not applicable	Not applicable	Not applicable
Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
D-Mannitol	69-65-8	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Creation Date Revision Date Print Date Revision Summary	05-Feb-2010 24-Dec-2021 24-Dec-2021 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS