

# SAFETY DATA SHEET

Creation Date 19-Nov-2009

Revision Date 28-Mar-2024

**Revision Number** 4

1. Identification

# Product Name D-Mannitol Cat No. : A14030

CAS No Synonyms

Uses advised against

69-65-8

D-Manninol; Isotol

Synonyms Recommended Use

Laboratory chemicals. Food, drug, pesticide or biocidal product use.

### Details of the supplier of the safety data sheet

### <u>Company</u>

Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757

### **Emergency Telephone Number**

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe:** +32 14 57 52 99 **CHEMTREC** Tel. No. **US**:001-800-424-9300 / **Europe:**001-703-527-3887

## 2. Hazard(s) identification

### <u>Classification</u> 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. Composition/Information on Ingredients

Component		CAS No	Weight %				
D-Mannitol		69-65-8	>95				
	4. First-	aid measures					
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if symptoms occur.						
Skin Contact	Rinse skin with water. Get medical attention if symptoms occur.						
nhalation	Remove to fresh air. Get medical attention if symptoms occur. If not breathing, give artificial respiration.						
ngestion	Do NOT induce vomit	ing. Get medical attention if sy	mptoms occur.				
lost important symptoms and ffects	No information available	ole.					
Notes to Physician	Treat symptomatically	,					
	5. Fire-fig	hting measures					
ouitable Extinguishing Media	Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.						
Insuitable Extinguishing Media	No information available						
Flash Point Method -	No information available No information available						
Autoignition Temperature Explosion Limits	No information availal	ble					
Upper	No data available						
Lower Sensitivity to Mechanical Impact Sensitivity to Static Discharge	No data available No information availab No information availab						
pecific Hazards Arising from the C hermal decomposition can lead to rel ources of ignition.		and vapors. Keep product and	d empty container away from heat and				
Hazardous Combustion Products Carbon monoxide (CO). Carbon dioxid Protective Equipment and Precaution As in any fire, wear self-contained breat protective gear.	ns for Firefighters	ure-demand, MSHA/NIOSH (a	pproved or equivalent) and full				
NFPA Health 1	Flammability Instability Physical hazards 1 0 N/A						
	6. Accidental	release measures	· · · · · · · · · · · · · · · · · · ·				
Personal Precautions	Ensure adequate ven formation.	tilation. Use personal protectiv	e equipment as required. Avoid dust				
Environmental Precautions	Avoid release to the e	nvironment					

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.
<b>Respiratory Protection</b>	No protective equipment is needed under normal use conditions.
Recommended Filter type:	Particle filter.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. F	Physical and chemical properties
Physical State	Solid
Appearance	White
Odor	Odorless
Odor Threshold	No information available
pH	No information available
Melting Point/Range	165 - 170 °C / 329 - 338 °F
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	Not applicable
•	No information available
Flammability (solid,gas)	
Flammability or explosive limits	No. data available
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	Soluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C6 H14 O6
Molecular Weight	182.17
U U	

# 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 Product	<b>s</b> Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> )
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

# 11. Toxicological information

## Acute Toxicity

# Product Information

Component Informat								
Component		LD50 Oral		LD50 Dermal		LC50 Inhalation		
D-Mannitol	D-Mannitol LD50 = 13500 mg/kg (Rat)			Not listed	No	t listed		
Foxicologically Syne	rgistic	No information ava	ilable					
Products	0							
Delayed and immedia	ate effects as v	well as chronic effe	cts from short a	nd long-term expo	osure			
Irritation No information available								
Sensitization		No information ava	ilable					
Carcinogenicity		The table below in	dicates whether e	each agency has lis	ted any ingredient a	as a carcinogen		
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico		
D-Mannitol	69-65-8	Not listed	Not listed	Not listed	Not listed	Not listed		
Mutagenic Effects		No information ava	ilable					
Reproductive Effects	i	No information available.						
Developmental Effect	ts	No information ava	ilable.					
Feratogenicity		No information ava	ilable.					
STOT - single exposu STOT - repeated expo		None known None known						
Aspiration hazard		No information ava	ilable					
Symptoms / effects,l delayed	both acute and	No information available						
Endocrine Disruptor	Information	No information available						
Other Adverse Effect	S	The toxicological properties have not been fully investigated.						
		12. Ecolo	ogical info	rmation				
Ecotoxicity								

**Ecotoxicity** Do not empty into drains.

Persistence and Degradability Soluble in water Persistence is unlikely based on information available.

**Bioaccumulation/ Accumulation** No information available.

Mobility	Will likely be mobile in the environment due to its water solubility.					
	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 TDG IATA IMDG/IMO	Not regulated Not regulated Not regulated 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

# TSCA - Per 40 CFR 751, Regulation of Certain Chemical Not applicable Substances & Mixtures, Under TSCA Section 6(h) (PBT)

TSCA 12(b) - Notices of Export

Not applicable

### 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**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
<b>OSHA</b> - Occupational Safety and Health Administration	Not applicable

### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

California Proposition 65	This product does not contain any Proposition 65 chemicals.
U.S. State Right-to-Know Regulations	Not applicable
<b>U.S. Department of Transportation</b> 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	No information available

### Authorisation/Restrictions according to EU REACH

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	· · · · · · · · · · · · · · · · · · ·	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
D-Mannitol	69-65-8	-	_	-

Not applicable

### 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

### Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

### Other International Regulations

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

Health, Safety and Environmental Department

Email: chem.techinfo@thermofisher.com www.thermofisher.com

Creation Date Revision Date Print Date Revision Summary 19-Nov-2009 28-Mar-2024 28-Mar-2024 New emergency telephone response service provider.

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

