ThermoFisher SCIENTIFIC

SAFETY DATA SHEET

Revision Date 10-Apr-2015

Revision Number 1

1. Identification				
Product Name	MANNITOL SALT AGAR (MSA)			
Cat No. :	R01580, R01581, R01587			
Synonyms	No information available			
Recommended Use	Laboratory chemicals.			
Uses advised against No Information available Details of the supplier of the safety data sheet				
Company Remel 12076 Santa Fe Drive Lenexa, KS 66215 United States Telephone: 1-800-255-6730 Fax:1-800-621-8251	Emergency Telephone Number INFOTRAC - 24 Hour Number: 1-800-535-5053 Outside of the United States, call 24 Hour Number: 001-352-323-3500 (Call Collect)			
	2. Hazard(s) identification			

Classification

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

Based on available data, the classification criteria are not met Target Organs - Respiratory system.

Label Elements

Hazard Statements

Precautionary Statements <u>Hazards not otherwise classified (HNOC)</u> None identified

3. Composition / information on ingredients

Component	CAS-No	Weight %
D-Mannitol	69-65-8	0.63
Agar	9002-18-0	1.22
Yeast, ext.	8013-01-2	0.36

Sodium chloride		7647-14-5	6.68			
	4. First-aid	d measures				
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.					
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.					
nhalation	Move to fresh air. Get me	edical attention immediately	if symptoms occur.			
ngestion	Clean mouth with water a symptoms occur.	and drink afterwards plenty	of water. Get medical attention if			
Most important symptoms/effects	None reasonably foreseeable. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation					
Notes to Physician	Treat symptomatically					
	5. Fire-fighti	ing measures				
Suitable Extinguishing Media	Use water spray, alcohol-	resistant foam, dry chemic	al or carbon dioxide.			
Unsuitable Extinguishing Media	No information available					
Flash Point Method -	No information available No information available					
Autoignition Temperature Explosion Limits	No information available					
Upper	No data available					
Lower Sensitivity to Mechanical Impact Sensitivity to Static Discharge	No data available t No information available No information available					
Specific Hazards Arising from the C Keep product and empty container awa		of ignition.				
Hazardous Combustion Products None known Protective Equipment and Precautio As in any fire, wear self-contained brea protective gear.	ns for Firefighters hthing apparatus pressure	demand, MSHA/NIOSH (aj	oproved or equivalent) and full			
NFPA Health 3	Flammability 0	Instability 0	Physical hazards N/A			
	6. Accidental re	elease measures				
Personal Precautions Environmental Precautions		ion. Use personal protective	e equipment. Avoid dust formation.			
Methods for Containment and Clean Jp	Sweep up or vacuum up formation.	spillage and collect in suital	ble container for disposal. Avoid dus			
	7. Handling	and storage				
Handling			ate ventilation. Avoid contact with ski			

	eyes and clothing. Avoid ingestion and inhalation. Avoid dust formation.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place.
8. E	xposure controls / personal protection
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
Legend	
ACGIH - American Conference of Govern OSHA - Occupational Safety and Health A NIOSH IDLH: The National Institute for O	
Engineering Measures	Ensure adequate ventilation, especially in confined areas.
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	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

Hygiene Measures

9. Physical and chemical properties

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Physical State	Gel
Appearance	No information available
Odor	No information available
Odor Threshold	No information available
рН	No information available
Melting Point/Range	No data available
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	No information available
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	No information available
Relative Density	No information available
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available

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 None under normal use conditions			
Hazardous Polymerization	Hazardous polymerization does not occur.		
Hazardous Reactions	None under normal processing.		

11. Toxicological information

Acute Toxicity

Product Information	า							
Oral LD50			Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.					
Dermal LD50		Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.						
Mist LC50			Based on ATE data, the classification criteria are not met. ATE > 5 mg/l.					
Vapor LC50		Based on ATE dat	Based on ATE data, the classification criteria are not met. ATE > 20 mg/l.					
Component Informa								
Componer		LD50 Oral		LD50 Dermal		Inhalation		
D-Mannito	1	13500 mg/kg (Rat)	Not listed		ot listed		
Agar		11 g/kg (Rat)		Not listed		ot listed		
Sodium chlor		3 g/kg (Rat)		g/kg (Rabbit)	42 g/m	³ (Rat)1 h		
Toxicologically Syn	ergistic	No information ava	ailable					
Products								
Delayed and immed	liate effects as	well as chronic effe	cts from short an	d long-term expo	<u>sure</u>			
Irritation		No information ava	ailable					
Sensitization		No information ava	ailable					
Carcinogenicity		The table below indicates whether each agency has listed 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		
Agar	9002-18-0	Not listed	Not listed Not listed		Not listed	Not listed		
Yeast, ext.	8013-01-2	Not listed	Not listed	Not listed	Not listed	Not listed		
Sodium chloride	7647-14-5	Not listed	Not listed	Not listed	Not listed	Not listed		
Mutagenic Effects		No information ava	No information available					
Reproductive Effects		No information available.						
Developmental Effe	cts	No information available.						
Teratogenicity		No information available.						
	STOT - single exposureRespiratory systemSTOT - repeated exposureNone known							
Aspiration hazard		No information ava	ailable					
Symptoms / effects,both acute and delayed		Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation						
Endocrine Disrupto	r Information	No information ava	No information available					
Other Adverse Effects		The toxicological properties have not been fully investigated.						

12. Ecological information

Ecotoxicity

Do not empty into drains.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea		
Sodium chloride	Not listed	Pimephals prome: LC50: 7650 mg/L/96h	EC50: 1000 mg/L/48h			
Persistence and Degradat	rsistence and Degradability No informatio					
Bioaccumulation/ Accumu		on available.				
Mobility	No informati	ion available.				
13. Disposal considerations						
Waste Disposal Methods	hazardous w	Chemical waste generators must determine whether a discarded chemical is classified 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	
DOT TDG IATA	Not regulated	
ΙΑΤΑ	Not regulated	
IMDG/IMO	Not regulated	
15. Regulatory information		

All of the components in the product are on the following Inventory lists: X = listed

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
D-Mannitol	Х	Х	-	200-711-8	-		Х	Х	Х	Х	Х
Agar	Х	Х	-	232-658-1	-		Х	-	Х	Х	Х
Yeast, ext.	Х	Х	-	232-387-9	-		Х	-	Х	Х	Х
Sodium chloride	Х	Х	-	231-598-3	-		Х	Х	Х	Х	Х

Legend:

X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated

polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b)	Not applicable			
SARA 313	Not applicable			
SARA 311/312 Hazardous Categorization Acute Health Hazard Chronic Health Hazard Fire Hazard				

Yes No

No

Sudden Release of Pressure Ha Reactive Hazard	Azard No No		
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		
State Right-to-Know	Not applicable		
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	No information available		

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class

E Corrosive material

Regulatory Affairs

Thermo Fisher Scientific

Email: EMSDS.RA@thermofisher.com



16. Other information

Prepared By

Revision Date Print Date Revision Summary 10-Apr-2015 10-Apr-2015 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 on 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of SDS