ThermoFisher SCIENTIFIC

SAFETY DATA SHEET

Revision Date 12-Oct-2015

Revision Number 1

1. Identification			
Product Name	STARCH AGAR 25ml DEEP		
Cat No. :	R09784		
Synonyms	No information available		
Recommended Use	Laboratory chemicals.		
Uses advised against Details of the supplier of the safety	No Information available <u>y data sheet</u>		
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

Label Elements

None required

Hazards not otherwise classified (HNOC)

None identified

Unknown Acute Toxicity

.? % of the mixture consists of ingredients of unknown toxicity.

3. Composition / information on ingredients

Component	CAS-No	Weight %
Manganese(II) chloride	7773-01-5	0.19
Soluble Starch	9005-84-9	0.96

4. First-aid measures				
Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 min				
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes.			
Inhalation Move to fresh air.				
Ingestion	Do not induce vomiting.			
Most important symptoms/effects Notes to Physician	No information available. Treat symptomatically			

5. Fire-fighting measures

Unsuitable Extinguishing Media	No information available
Flash Point Method -	Not applicable No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impac	t No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical

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

Hazardous Combustion Products

None known

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.

<u>NFPA</u>

Health	Flammability	Instability	Physical hazards
0	0	0	N/A
	6. Accidental rel	ease measures	
Personal Precautions	Ensure adequate ventilatio	n. Use personal protective equ	ipment.
Environmental Precautions	See Section 12 for addition	al ecological information.	

Methods for Containment and Clean Soak up with inert absorbent material. Up

7. Handling and storage

Ensure adequate ventilation.

Handling Storage

Keep containers tightly closed in a dry, cool and well-ventilated place.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Manganese(II) chloride	TWA: 0.02 mg/m ³ TWA: 0.1 mg/m ³	(Vacated) Ceiling: 5 mg/m ³ Ceiling: 5 mg/m ³	IDLH: 500 mg/m³ TWA: 1 mg/m³ STEL: 3 mg/m³
Component	Quebec	Mexico OEL (TWA)	Ontario TWAEV

	Quenee		
Manganese(II) chloride	TWA: 0.2 mg/m ³	TWA: 0.2 mg/m ³	TWA: 0.2 mg/m ³
Legend		-	

<u>Legend</u>

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

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.		

9. Physical a	and chemical properties
Physical State Appearance Odor Odor Threshold pH Melting Point/Range Boiling Point/Range Flash Point Evaporation Rate Flammability (solid,gas)	Liquid No information available No information available No information available No information available No data available No information available 44444 80031.2 Not applicable No information available No information available
Flammability or explosive limits Upper Lower Vapor Pressure Vapor Density Specific Gravity Solubility Partition coefficient; n-octanol/water Autoignition Temperature Decomposition Temperature Viscosity	No data available No data available No information available No information available No information available No data available No information available No information available No information available 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.	

Incompatible Material	compatible Materials Strong oxidizing agents					
Hazardous Decompos	Hazardous Decomposition Products None under normal use conditions					
Hazardous Polymeriz	ation	Hazardous polymerization does not occur.				
Hazardous Reactions	i	None under normal	processing.			
		11. Toxicol	logical info	ormation		
Acute Toxicity						
Oral LD50 Dermal LD50 Vapor LC50 Component Informati	on	Based on ATE data Based on ATE data Based on ATE data	, the classification	n criteria are not m	et. ATE > 2000 mg	
Component		LD50 Oral		LD50 Dermal	1 C 50	Inhalation
Manganese(II) chlo	oride	250 mg/kg (Rat)		Not listed		t listed
Toxicologically Syner Products Delayed and immedia	-	1031 mg/kg (Mouse) No information avail vell as chronic effect		d long-term expo	sure_	
Irritation		No information avail	lable			
Sensitization		No information avail	lable			
Carcinogenicity		The table below ind	icates whether ea	ach agency has list	ted any ingredient	as a carcinogen.
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Manganese(II) chloride	7773-01-5	Not listed	Not listed	Not listed	Not listed	Not listed
Soluble Starch	9005-84-9	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information avail				
Reproductive Effects		No information available.				
Developmental Effect	S	No information avail	lable.			
Teratogenicity		No information avail	lable.			
STOT - single exposu STOT - repeated expo		None known None known				
Aspiration hazard		No information avail	lable			
delayed	oth acute and No information available					
Endocrine Disruptor I		No information avail				
Other Adverse Effects	Other Adverse Effects The toxicological properties have not been fully investigated.					
		12. Ecolo	gical infor	mation		

Ecotoxicity Do not empty into drains.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Manganese(II) chloride	Not listed	>1000 mg/L 48h	Not listed	4.7 mg/L 48h
Persistence and Degradability No informatic		n available		

Bioaccumulation/ Accumulation No information available. Mobility

No information available.

Component	log Pow
Manganese(II) chloride	0.85

	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		
TDG IATA	Not regulated		
IATA	Not regulated		
IMDG/IMO	Not regulated		

15. Regulatory information

All of the components in the product are on the following Inventory lists: X = listed The product is classified and labeled according to EC directives or corresponding national laws The product is classified and labeled in accordance with Directive 1999/45/EC No information available

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Manganese(II) chloride	Х	Х	-	231-869-6	-		Х	Х	Х	Х	Х
Soluble Starch	Х	Х	-	232-686-4	-		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

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Manganese(II) chloride	7773-01-5	0.19	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

CWA (Clean Water Act) Not applicable

Clean Air Act

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Manganese(II) chloride	X		-

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 Regulations

Regulations					
Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Manganese(II) chloride	-	Х	Х	Х	-

U.S. Department of Transportation

Reportable Quantity (RQ):	Ν
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

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	Non-controlled
	16. Other information
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Revision Date	12-Oct-2015
Print Date	12-Oct-2015
Revision Summary	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