ThermoFisher SCIENTIFIC

SAFETY DATA SHEET

Revision Date 22-Apr-2015

Revision Number 1

1. Identification			
Product Name	LACTOSE BROTH BASE		
Cat No. :	R453652, R453654, R453656		
Synonyms	No information available		
Recommended Use	Laboratory chemicals.		
Uses advised against Details of the supplier of the safet	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

Hazard Statements

Precautionary Statements

Hazards not otherwise classified (HNOC) None identified

3. Composition / information	on on inaredients
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Component	CAS-No	Weight %
.betaD-Lactose	63-42-3	38.46

4. First-aid 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.
Inhalation	Move 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/effects Notes to Physician	None reasonably foreseeable. Treat symptomatically

	5. Fire-fighting measures
Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical 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	No data available
Sensitivity to Mechanical Impac Sensitivity to Static Discharge	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

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.

NFPA Health 2	Flammability 0	Instability 0	Physical hazards N/A		
	6. Accidental re	elease measures			
Personal Precautions Environmental Precautions					
Methods for Containment and Cl Up	ean Sweep up or vacuum up s formation.	pillage and collect in suitable c	ontainer for disposal. Avoid dust		
	7. Handling	and storage			
Handling		equipment. Ensure adequate von ngestion and inhalation. Avoid of	entilation. Avoid contact with skin, dust formation.		
Storage	Keep containers tightly clo	osed in a dry, cool and well-ven	tilated place.		
8.	Exposure controls	/ personal protecti	on		
Exposure Guidelines	This product does not con	tain any hazardous materials w	vith occupational exposure limits		

established by the region specific regulatory bodies.

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 and chemical properties

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Physical State	Powder Solid
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

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Product Information	n					
Oral LD50		Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.				g/kg.
Dermal LD50		Based on ATE data,	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 data, the classification criteria are not met. ATE > 20 mg/l.				
Component Information						
Componer		LD50 Oral		LD50 Dermal		Inhalation
.betaD-Lact		10 g/kg (Rat) Not listed Not listed				ot listed
Toxicologically Syr	nergistic	stic No information available				
Products						
Delayed and immed	diate effects a	s well as chronic effect	ts from short an	d long-term expo	osure	
Irritation		No information available				
Sensitization		No information avail	able			
Carcinogenicity		The table below indi	The table below indicates whether each agency has listed any ingredient as a carcinogen.			
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
.betaD-Lactose	63-42-3	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information avail	able			
Reproductive Effec	ts	No information avail	able.			
Developmental Effe	ects	No information avail	able.			
Teratogenicity		No information avail	able.			
STOT - single expo STOT - repeated ex						
Aspiration hazard		No information avail	able			
Symptoms / effects delayed	s,both acute a	nd No information avail	able			
Endocrine Disrupto	or Information	No information avail	able			
Other Adverse Effe	cts	The toxicological pro	operties have not	been fully investion	gated.	
		12. Ecolo	gical infor	mation		
<u>Ecotoxicity</u> Do not empty into dra	ains.					
Persistence and De Bioaccumulation/ A		No information avail No information avail				
Mobility		No information avail	able.			
		13. Dispos	al conside	erations		
Waste Disposal Me	thods	Chemical waste gen hazardous waste. C	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. Trans	sport inform	nation		
DOT		Not regulated				

<u>TDG</u> IATA IMDG/IMO	Not regulated Not regulated 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
.betaD-Lactose	Х	Х	-	200-559-2	-		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 Categoriz Acute Health Hazard Chronic Health Hazard Fire Hazard Sudden Release of Pressure Haz Reactive Hazard		Yes No 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 co	ntain 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

D1B Toxic materials

Regulatory Affairs

Thermo Fisher Scientific

Email: EMSDS.RA@thermofisher.com



16. Other information

Prepared By

Revision Date Print Date Revision Summary

22-Apr-2015 22-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