

# SAFETY DATA SHEET

Creation Date 29-Jul-2009

Revision Date 11-Apr-2018

**Revision Number** 4

1. Identification					
Product Name	Lactose monohydrate				
Cat No. :	L5-500; L6-212; L6-200LB; L6-500; L8-12; L8-212; XXL6100GM; NC1639429				
Synonyms	Lactin; Lactobiose; Milk Sugar				
Recommended Use Uses advised against Details of the supplier of the safety	Laboratory chemicals. Food, drug, pesticide or biocidal product use. <u>data sheet</u>				
<u>Company</u> Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100					

### Emergency Telephone Number 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. Composition/Information on Ingredients							
Component CAS-No Weight %							

4. First-aid measures in with water. Get medical attention if sym in with water. Get medical attention if sym to fresh air. Get medical attention if symp on.	ptoms occur.				
in with water. Get medical attention if sym to fresh air. Get medical attention if symp on.	ptoms occur.				
to fresh air. Get medical attention if sympon.					
on.	toms occur. If not breathing, give artificia				
induce vomiting. Get medical attention.					
nation available.					
Treat symptomatically					
Fire-fighting measures					
	alcohol-resistant foam.				
Flash PointNo information availableMethod -No information available					
nation available					
	Fire-fighting measures oray, carbon dioxide (CO2), dry chemical, nation available nation available				

## **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
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Health 0	Flammability 0	<b>Instability</b> 0	Physical hazards N/A
	6. Accidental rel	ease measures	
Personal Precautions	Use personal protective eq formation.	uipment as required. Ensure a	dequate ventilation. Avoid dust
<b>Environmental Precautions</b>	Avoid release to the environ	nment. See Section 12 for add	itional 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 dust formation. Avoid contact with skin and eyes. Avoid ingestion and inhalation.

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 limitsestablished by the region specific regulatory bodies.					
Engineering Measures	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.					
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
Physical State	Solid
Appearance	White
Odor	Odorless
Odor Threshold	No information available
рН	No information available
Melting Point/Range	219 °C / 426.2 °F
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	negligible
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	negligible
Vapor Density	No information available
Specific Gravity	1.525
Solubility	Soluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	C12H22O11.H2O
Molecular Weight	360.32
U U	

# 10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions.
Conditions to Avoid	Avoid dust formation. Excess heat. Incompatible products.

Incompatible Materials	ncompatible Materials Strong oxidizing agents					
Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2)						
Hazardous Polymerization	Hazardous polymerization does not occur.					
Hazardous Reactions	None under norma	al processing.				
	11. Toxico	ological info	rmation			
Acute Toxicity						
Oral LD50 Dermal LD50 Mist LC50 Component Information Toxicologically Synergistic Products Delayed and immediate effects as w	Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg. Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg. Based on ATE data, the classification criteria are not met. ATE > 5 mg/l. No information available					
				<u>5010</u>		
Irritation	No information ava	ailable				
Sensitization	No information ava	ailable				
Carcinogenicity	The table below in	dicates whether ea	ich agency has list	ed any ingredient a	as a carcinogen.	
Component CAS-No	IARC	NTP	ACGIH	OSHA	Mexico	
Lactose, monohydrate 64044-51-5	Not listed No information ava	Not listed	Not listed	Not listed	Not listed	
Mutagenic Effects	No mornation ava	aliable				
Reproductive Effects	No information ava	ailable.				
Developmental Effects	No information ava	ailable.				
Teratogenicity	No information ava	ailable.				
STOT - single exposureNone knownSTOT - repeated exposureNone known						
Aspiration hazard	No information available					
Symptoms / effects,both acute and delayed	No information ava	ailable				
Endocrine Disruptor Information	No information ava	ailable				
Other Adverse Effects	The toxicological p	properties have not	been fully investig	ated.		
	12. Ecolo	ogical infor	mation			
<u>Ecotoxicity</u> Do not empty into drains.						
Persistence and Degradability	No information ava	ailable				
<b>Bioaccumulation/ Accumulation</b>	No information ava	ailable.				
Mobility	No information ava	ailable.				
	12 Dicho	sal conside	rations			

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	Not regulated				
TDG Not regulated					
IATA	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
Lactose, monohydrate	64044-51-5	-	-	-

### Legend:

TSCA - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

#### International Inventories

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

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
Lactose, monohydrate	64044-51-5	-	-	-	Х	-	Х	Х	-

### 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
<b>OSHA</b> - 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	Not applicable
<b>U.S. Department of Transportation</b> Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N

#### Other International Regulations

Mexico - Grade

No information available

16. Other information	
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
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Disclaimer

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# **End of SDS**