## Safety Data Sheet

## Lactose, Monohydrate

# **CAROLINA®** www.carolina.com

### **Product Description**

Product Name: Recommended Use: Synonyms: Distributor:

**Section 1** 

Section 2

Lactose, Monohydrate Science education applications Milk Sugar Carolina Biological Supply Company 2700 York Road, Burlington, NC 27215 1-800-227-1150 800-227-1150 (8am-5pm (ET) M-F) 800-424-9300 (Transportation Spill Response 24 hours)

Chemical Information: Chemtrec:

### **Hazard Identification**

#### Classification of the chemical in accordance with paragraph (d) of §1910.1200;

Not a dangerous substance according to GHS classification criteria. No known OSHA hazards.

GHS Classification:

Composition	Information on	Ingradiante
	Information on	

**First Aid Measures** 

<u>Chemical Name</u> Lactose, Monohydrate

CAS # 5989-81-1 <u>%</u> 100

### Section 4

Section 3

### ergency and First Aid Procedures

Emergency and First Ald Procedures			
Inhalation:	In case of accident by inhalation: remove casualty to fresh air and keep at rest.		
Eyes:	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.		
Skin Contact:	After contact with skin, wash immediately with plenty of water.		
Ingestion:	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.		

### Section 5

## **Firefighting Procedures**

Extinguishing Media:	Use dry chemical, CO2 or appropriate foam.
Fire Fighting Methods and Protection:	Firefighters should wear full protective equipment and NIOSH approved self-contained
	breathing apparatus.
Fire and/or Explosion Hazards:	None Known
Hazardous Combustion Products:	Carbon dioxide, Carbon monoxide

Spill or Leak Procedures

### **Section 6**

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Steps to Take in Case Material Is Released or Spilled:

No adverse health affects expected from the clean-up of spilled material.

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

### Section 7

### Handling and Storage

Handling:Keep container tightly closed in a cool, well-ventilated place. Avoid contact with skin and eyes.Storage:N/AStorage Code:Green - general chemical storage

# Safety Data Sheet

Section 8	Protection	Information		
	AC	<u>GIH</u>	OSH	A PEL
Chemical Name	<u>(TWA)</u>	<u>(STEL)</u>	<u>(TWA)</u>	<u>(STEL)</u>
No data available	N/A	N/A	N/A	N/A
Control Parameters				
Engineering Measures:	No exposure limits exist for the constituents of this product. General room ventilation might be required to maintain operator comfort under normal conditions of use.			
Personal Protective Equipment (PPE):	Lab coat, apron, eye wash, safety shower.			
Respiratory Protection:	No respiratory protection required under normal conditions of use.			
Eye Protection:	Wear chemical splash goggles when handling this product. Have an eye wash station available.			
Skin Protection:	Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.			
Gloves:	No information availab	ble		
Section 9	Physic	al Data		

# Formula: C12H22011 H2O

Molecular Weight: 360.3 Appearance: White to slightly yellow Powder Odor: None Odor Threshold: No data available pH: No data available Melting Point: No data available 218 C Boiling Point: No data available Flash Point: No data available Flammable Limits in Air: N/A

### Physical Data

Vapor Pressure: N/A Evaporation Rate (BuAc=1): N/A Vapor Density (Air=1): N/A Specific Gravity: N/A Solubility in Water: Soluble Log Pow (calculated): No data available Autoignition Temperature: No data available Decomposition Temperature: No data available Viscosity: No data available Percent Volatile by Volume: N/A

## Section 10

Reactivity: Chemical Stability: Conditions to Avoid: Hazardous Polymerization:

### Reactivity Data

Not generally reactive under normal conditions. Stable under normal conditions. None known. Will not occur

Toxicity Data

### Section 11

Symptoms (Acute): **Delayed Effects:** 

No data available No data available

Acute Toxicity: **Chemical Name** Lactose, Monohydrate

**CAS Number** 5989-81-1

**CAS Number** 

Oral LD50 Oral LD50 Rat > 10000 mg/kg

Not listed

IARC

Dermal LD50 Not determined

NTP

Not listed

Inhalation LC50 Not determined

**OSHA** 

Not listed

Carcinogenicity: **Chemical Name** Lactose, Monohydrate

Sensitization:

**Reproductive:** 

5989-81-1 **Chronic Effects: Mutagenicity:** No evidence of a mutagenic effect. Teratogenicity:

No evidence of a teratogenic effect (birth defect).

No evidence of a sensitization effect.

No evidence of negative reproductive effects. **Target Organ Effects:** 

## Safety Data Sheet

Acute:	
Chronic:	

No data available No data available

## Section 12

**Overview:** 

Persistence:

Degradability:

Section 13

**Bioaccumulation:** 

Mobility:

**Ecological Data** 

This material is not expected to be harmful to the ecology. No data No data No data No data No data No data

CAS Number 5989-81-1

Chemical Name Lactose, Monohydrate

**Other Adverse Effects:** 

**Disposal Information** 

**Eco Toxicity** 

**Disposal Methods:** 

Waste Disposal Code(s):

Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance. This material is not considered to be a RCRA hazardous waste.

### Section 14

**Transport Information** 

**Ground - DOT Proper Shipping Name:** Not regulated for transportation by DOT Air - IATA Proper Shipping Name: Not regulated for air transport by IATA.

### Section 15

**TSCA Status:** 

# Regulatory Information

A component (or components) of this product is not listed on the TSCA Inventory of Existing Chemical Substances. Product is for research and development use only.

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Lactose, Monohydrate	5989-81-1	No	No	No	No	No

### California Prop 65:

No California Proposition 65 ingredients

Section 16	Additional
	Information

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### Printed: 08-25-2018

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary			
ACGIH	American Conference of Governmental	NTP	National Toxicology Program
	Industrial Hygienists	OSHA	Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health