

SAFETY DATA SHEET

1. Identification

Product Name	Lactose Powder
CAS Number	64044-51-5
Synonyms Recommended Use Uses advised against	Lactin; Lactobiose; Milk Sugar Laboratory chemicals. No Information available

Details of the supplier of the safety data sheet

Lab Alley LLC 12501 Pauls Valley Road, Suite A Austin, Texas, 78737

Telephone512-668-9918Fax512-886-4008

Emergency Phone # US & Canada: 1-800-535-5053 INFOTRACK

International 1-352-323-3500 INFOTRACK

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

3. Composition / information on ingredients

Component	CAS-No	Weight %
Lactose monohydrate	64044-51-5	100

4. First-aid measures

Eye Contact

Rinse with plenty of water. Get medical attention if symptoms occur.

Skin Contact

Rinse with plenty of water. Get medical attention if symptoms occur.

Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Get medical attention if symptoms occur.
Ingestion	Do not induce vomiting. Obtain medical attention.
Most important symptoms/effects Notes to Physician	No information available. 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	No information available
Method -	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

Thermal decomposition can lead to release of irritating gases and vapors.

Hazardous Combustion Products

Carbon monoxide (CO) Carbon dioxide (CO₂) **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 0	Flammability 0	Instability 0	Physical hazards N/A		
	6. Accidental rel	ease measures			
Personal Precautions Environmental Precautions	Use personal protective eq Avoid release to the enviror	uipment. Ensure adequate ver nment.	tilation. Avoid dust formation.		
Methods for Containment and C Up	Clean Sweep up or vacuum up sp formation.	ean Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation.			
7. Handling and storage					
Handling		quipment. Ensure adequate ve eyes. Avoid ingestion and inh	entilation. Avoid dust formation. alation.		
Storage	Keep containers tightly clos	Keep containers tightly closed in a dry, cool and well-ventilated place.			
8. Exposure controls / personal protection					
Exposure Guidelines	This product does not cont established by the region s	•	ith occupational exposure limits		
Engineering Measures	•	on, especially in confined areas se to the workstation location.	s. Ensure that eyewash stations		

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	
Boiling Point/Range	Decomposes	
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	
Relative Density	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	

10. Stability and reactivity

11. Toxicological information			
Hazardous Reactions	None under normal processing.		
Hazardous Polymerization	Hazardous polymerization does not occur.		
Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2)			
Incompatible Materials	Strong oxidizing agents		
Conditions to Avoid	Avoid dust formation. Excess heat. Incompatible products.		
Stability	Stable under normal conditions.		
Reactive Hazard	None known, based on information available		

Acute Toxicity

Oral LD50 Dermal LD50 Mist LC50	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.		
Component Information Toxicologically Synergistic Products	No information available		
Delayed and immediate effects as we	ell as chronic effects from short and long-term exposure		
Irritation	No information available		

Sensitization	No information available
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Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
.alphaD-Glucopyrano se, 4-ObetaD-galactopy	5989-81-1	Not listed	Not listed	Not listed	Not listed	Not listed
ranosyl-, monohydrate						
Mutagenic Effects		No information ava	ilable			
Reproductive Effects	5	No information available.				
Developmental Effect	ts	No information available.				
Teratogenicity		No information available.				
STOT - single expos STOT - repeated exp		None known None known				
Aspiration hazard		No information available				
Symptoms / effects,	both acute and	d No information available				
delayed Endocrine Disruptor	Information	No information available				
Other Adverse Effec	ts	The toxicological properties have not been fully investigated.				

12. Ecological information

Ecotoxicity Do not empty into drains.

Persistence and Degradability	No information available
Bioaccumulation/ Accumulation	No information available.

Mobility

No information available.

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	Not regulated	
<u>DOT</u> <u>TDG</u> IATA	Not regulated	
IMDG/IMO	Not regulated	
15. Regulatory information		

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
.alphaD-Glucopyranose, 4-ObetaD-galactopyranosy I-, monohydrate	-	-	-	-	-		-	-	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.

Not applicable

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)

SARA 313	Not applicable

SARA 313	Not applicable

SARA 311/312 Hazardous Categorization	
Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act Not applicable

Clean Air Act	Not applicable
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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		
II C. Department of Hemeland Convity			

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

Date if issue: 03/21/2024

17. 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.