

# **SAFETY DATA SHEET**

Revision Date 08-Apr-2014

**Revision Number 1** 

#### 1. Identification

Product Name a-D-Lactose monohydrate

Cat No.: AC412970000; AC412970010; AC412970020; AC412970100;

AC412975000

Synonyms Lactin; Lactobiose; Milk Sugar

Recommended Use Laboratory chemicals

Uses advised against No Information available

Details of the supplier of the safety data sheet

Company Entity / Business Name

Fisher Scientific Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410 Fair Lawn, NJ 07410

Fair Lawn, NJ 07410 Tel: (201) 796-7100 **Emergency Telephone Number** 

For information US call: 001-800-ACROS-01 /

Europe call: +32 14 57 52 11

Emergency Number **US:**001-201-796-7100 /

Europe: +32 14 57 52 99

CHEMTREC Tel. No.US:001-800-424-9300 /

Europe:001-703-527-3887

# 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

#### Haz/Non-haz

Component	CAS-No	Weight %
.alphaD-Glucopyranose, 4-ObetaD-	5989-81-1	100
galactopyranosyl-, monohydrate		

# 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

## 8. Exposure controls / personal protection

This product does not contain any hazardous materials with occupational exposure limits **Exposure Guidelines** 

established 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** 

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's **Eye/face Protection** 

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

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN **Respiratory Protection** 

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

Handle in accordance with good industrial hygiene and safety practice **Hygiene Measures** 

## 9. Physical and chemical properties

**Physical State** Powder Solid **Appearance** White Odor Odorless

**Odor Threshold** No information available. No information available.

**Melting Point/Range** 219°C / 426.2°F

No information available. **Boiling Point/Range** Flash Point No information available. **Evaporation Rate** No information available. No information available Flammability (solid,gas)

Flammability or explosive limits

Upper No data available Lower No data available negligible

**Vapor Pressure** 

**Vapor Density** No information available. **Relative Density** 

Solubility No information available. Partition coefficient; n-octanol/water No data available

No information available. **Autoignition Temperature** No information available. **Decomposition temperature** 

**Viscosity** No information available. Molecular Formula C12 H22 O11 . H2 O

**Molecular Weight** 360.3

## 10. Stability and reactivity

**Reactive Hazard** None known, based on information available.

**Stability** Stable under normal conditions.

**Conditions to Avoid** Avoid dust formation. Incompatible products. Excess heat.

Strong oxidizing agents **Incompatible Materials** 

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

**Hazardous Polymerization** Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing

## 11. Toxicological information

**Acute Toxicity** 

Oral LD50Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.Dermal LD50Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.Mist LC50Based on ATE data, the classification criteria are not met. ATE > 5 mg/l.

**Component Information** 

**Toxicologically Synergistic** 

No information available.

**Products** 

Delayed and immediate effects as well as chronic effects from short and long-term exposure

IrritationNo information available.SensitizationNo information available.

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

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
.alphaD-	5989-81-1	Not listed				
Glucopyranose, 4-O-						
.betaD-						
galactopyranosyl-,						
monohydrate						

Mutagenic EffectsNo information available.Reproductive EffectsNo information available.Developmental EffectsNo information available.TeratogenicityNo information available.

STOT - single exposure None known.
STOT - repeated exposure None known.

Aspiration hazard No information available.

Symptoms / effects, No information available.

both acute and delayed

Endocrine Disruptor Information No information available

Other Adverse Effects 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

DOTNot regulatedTDGNot regulatedIATANot regulatedIMDG/IMONot regulated

## 15. Regulatory information

#### **International Inventories**

**IECSC** Component **TSCA** DSL **NDSL EINECS ELINCS NLP PICCS ENCS AICS KECL** .alpha.-D-Glucopyranose, 4-O-Х Х .beta.-D-galactopyranosyl-, monohydrate

#### 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.

Clean Air Act Not applicable

**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): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant 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 Non-controlled

### 16. Other information

Prepared By Regulatory Affairs

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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**