

Maltose, NF Grade

Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)
 Date of issue: 5/1/2015 Revision date: 5/1/2015 Version: 2.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Chemical type : Substance
 Name : Maltose, NF Grade
 CAS No. : 6363-53-7
 SDS CODE : E049

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Use of the substance/preparation : Food/pharmaceutical products.

1.2.2. Uses advised against

No reliable data available.

1.3. Details of the supplier of the safety data sheet

Lab Alley LLC
 22111 Highway 71 West, Suite 601
 Spicewood, Texas 78669
 Tel.: 512-668-9918

1.4. Emergency telephone number

Emergency number : InfoTrac: 800-535-5053

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Not classified

2.2. Label elements

GHS-US labelling

No labelling applicable

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

No data available

SECTION 3: Composition/information on ingredients

Name : Maltose, NF Grade

Name	Product identifier	%	GHS-US classification
Maltose monohydrate	(CAS No) 6363-53-7	100	Not classified

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : If respiratory irritation occurs upon inhalation, remove to fresh air. Seek medical attention if symptoms develop or persist.
 First-aid measures after skin contact : Wash with water and soap. If skin irritation persists, seek medical attention.
 First-aid measures after eye contact : Immediately rinse with plenty of water. If eye irritation persists, take medical advice.
 First-aid measures after ingestion : If a large quantity has been ingested : Immediately get medical attention. Do not induce vomiting. Never give anything by mouth to an unconscious person.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Severe exposure to this product may produce some discomfort and gastrointestinal disturbances but symptoms are reversible and usually disappear when exposure stops.
 Symptoms/injuries after inhalation : Overexposure may be irritating to the respiratory system.
 Symptoms/injuries after skin contact : Not expected to be an irritant. Repeated or prolonged skin contact may cause irritation.
 Symptoms/injuries after eye contact : Dust from this product may cause eyes irritation. Significant irritation would not be expected.

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Symptoms/injuries after ingestion : Ingestion of small amounts would not be expected to produce toxicity.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: : Powder, alcohol-resistant foam, water spray, carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Fire hazard : On combustion forms: Carbon dioxide. Carbon monoxide. low molecular weight hydrocarbons.
Explosion hazard : Accumulation of airborne dusts may present an explosion hazard in the presence of an ignition source.
Reactivity : Stable under normal conditions of use.

5.3. Advice for firefighters

Protective equipment for firefighters : Extra personal protection: complete protective clothing including self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment : Refer to section 8.

6.1.2. For emergency responders

Protective equipment : Refer to section 8. Wear suitable protective clothing.

6.2. Environmental precautions

Avoid discharge to the environment. Do not discharge into drains or the environment. Do not discharge into surface water.

6.3. Methods and material for containment and cleaning up

For containment : Contains the discharged material.
Methods for cleaning up : Avoid raising powdered materials into airborne dust. Ventilate affected area. If sweeping of a contaminated area is necessary, use a dust suppressant agent. Sweep or shovel spills into appropriate container for disposal.

6.4. Reference to other sections

Refer to sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with eyes. avoid breathing dust. Avoid raising powdered materials into airborne dust.
Hygiene measures : Wash hands thoroughly after handling. Handle in accordance with good industrial hygiene and safety practices.

7.2. Conditions for safe storage, including any incompatibilities

Storage condition(s) : Keep container tightly closed. Store at room temperature.

7.3. Specific end use(s)

Excipient.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Guidelines

General Product Information

Exposures should be minimized in accordance with good industrial hygiene practices.

Component Exposure Limits

ACGIH, OSHA, NIOSH or the provinces of Canada have not developed exposure limits for any of this product's components.

Engineering Controls

Ventilation should be sufficient to effectively remove and prevent buildup of airborne dusts.

8.2. Exposure controls

Appropriate engineering controls : Provide local exhaust or general room ventilation to minimize exposure to dust.
Personal protective equipment : Safety glasses. Gloves. Protective clothing.



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Hand protection	: Wear impervious gloves for prolonged contact.
Eye protection	: Safety glasses with side-shields.
Skin and body protection	: Wear suitable protective clothing. Wear long sleeves.
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Powder.
Colour	: Whitish.
odour	: No data available
Odour threshold	: No data available
pH	: 4.0-5.5 (30% water solution)
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 164 - 169 °C
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 149 °C
Self ignition temperature	: 460 °C
Decomposition temperature	: 290 - 295 °C
Flammability (solid, gas)	: No data available
Vapour pressure	: Not applicable
Relative vapour density at 20 °C	: Not applicable
Relative density	: No data available
Solubility	: Water: Soluble
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions of use.

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Avoid raising powdered materials into airborne dust.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Carbon dioxide (CO₂). Carbon monoxide. low molecular weight hydrocarbons.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Maltose (69-79-4)	
LD50 oral rat	> 34800 mg/kg

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation : Not classified

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Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: Overexposure may be irritating to the respiratory system.
Symptoms/injuries after skin contact	: Not expected to be an irritant. Repeated or prolonged skin contact may cause irritation.
Symptoms/injuries after eye contact	: Dust from this product may cause eyes irritation. Significant irritation would not be expected.
Symptoms/injuries after ingestion	: Ingestion of small amounts would not be expected to produce toxicity.

SECTION 12: Ecological information

Toxicity

Persistence and degradability

No additional information available

Bioaccumulative potential

Mobility in soil

No additional information available

Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations	: Comply with applicable local, national and international regulation.
Additional information	: Empty containers should be taken for recycle, recovery or waste in accordance with local regulation. Do not distribute, make available, furnish or reuse empty container. Puncture or otherwise destroy empty container before disposal. except for storage and shipment of original product.

SECTION 14: Transport information

In accordance with ADR / RID / ADN R / IMDG / ICAO / IATA

14.1. UN number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Additional information

Other information : No supplementary information available.

Overland transport

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

No additional information available

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

No additional information available

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Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

No additional information available

15.2.2. National regulations

No additional information available

15.3. US State regulations

No supplementary information available

SECTION 16: Other information

Abbreviations and acronyms : ATE - acute toxicity estimate. CAS - Chemical Abstracts Service. HCS - Hazard Communication Standard. HMIS - Hazardous Materials Identification System. GHS - Globally Harmonised System. OSHA - Occupational Safety and Health Administration. SDS - Safety Data Sheet.

Date of SDS preparation : 05/01/2015

Other information : None.

NFPA health hazard : 0 - Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials.

NFPA fire hazard : 0 - Must be preheated before ignition can occur.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

HMIS III Rating

Health : 0 Minimal Hazard - No significant risk to health

Flammability : 0 Minimal Hazard

Physical : 0 Minimal Hazard

Personal Protection : Safety glasses with side shields

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.