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Ferro Pfanstiehl  
Pharmaceutical/PFC  
1219 Glen Rock Ave  
Waukegan, IL 60085 USA

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Emergency telephone number  
CHEMTREC: 1-800-424-9300

Phone number: 1-847-623-0370

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

**Product Name:** MALTOSE HIGH PURITY,  
MONOHYDRATE  
**Formula:** C<sub>12</sub>H<sub>22</sub>O<sub>11</sub>.H<sub>2</sub>O  
**CAS-No.:** 6363-53-7 (Anhydrous: 69-79-4)  
**Product code:** M-131-1

Date of Preparation: 10/03/2005

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Weight %	OSHA	ACGIH
MALTOSE MONOHYDRATE	6363-53-7	100%	Not established	Not established

## 3. HAZARDS IDENTIFICATION

**Emergency Overview**

Caution  
Avoid dust formation. May cause physical irritation.

NFPA 704

**Colour:** White  
**Physical state:** Solid  
**Odour:** Odorless

**Health:** 0  
**Fire:** 0  
**Instability:** 0

**Potential Health Effects**

**Principle routes of exposure:** Inhalation, ingestion, skin and eye contact.

**Eye contact:** May cause slight irritation.

**Skin contact:** Prolonged skin contact may cause skin irritation and/or dermatitis.

**Inhalation:** Product dust may be irritating to eyes, skin and respiratory system. Over-exposure by inhalation may cause respiratory irritation.

**Ingestion:** May irritate digestive tract.

**Chronic toxicity:** No known effects under normal conditions of use.

## 4. FIRST AID MEASURES

**Eye contact:** Rinse immediately with plenty of water, also under the eyelids. Get medical attention if irritation develops.

**Skin contact:** Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use. If symptoms persist, call a physician.

**Inhalation:** Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. If symptoms persist, call a physician.

**Ingestion:** Drink plenty of water. Consult a physician if necessary.

**Notes to physician:** Treat symptomatically.

5. FIRE-FIGHTING MEASURES

**Flash point:** No data available

**Suitable extinguishing media:** The product itself does not burn. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Hazardous decomposition products:** Thermal decomposition can lead to release of irritating gases and vapors.

**Special protective equipment for firefighters:** As in any fire, wear self-contained breathing apparatus pressure-demand, NIOSH (approved or equivalent) and full protective gear.

**Unusual hazards:** Dust may form explosive mixture in air.

6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Avoid dust formation. Evacuate area of all unnecessary personnel. Avoid contact with skin, eyes and clothing. Use personal protective equipment.

**Environmental precautions:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

**Methods for cleaning up:** Use approved industrial vacuum cleaner for removal. Wear personal protective equipment. Dispose of promptly.

7. HANDLING AND STORAGE

**Handling:** Handle in accordance with good industrial hygiene and safety practice. Avoid dust formation. Avoid contact with skin, eyes and clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Provide appropriate exhaust ventilation at places where dust is formed. Remove all sources of ignition.

**Storage:** Keep container tightly closed in a dry and well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering measures:** Ensure adequate ventilation, especially in confined areas.

**Respiratory protection:** Use NIOSH approved respirator when ventilation is inadequate.

**Hand protection:** Impervious gloves.

**Skin and body protection:** Lightweight protective clothing.

**Eye protection:** Safety glasses with side-shields.

9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Colour:</b>	White	<b>Appearance:</b>	Crystalline
<b>Physical state:</b>	Solid	<b>Odour:</b>	Odorless
<b>Molecular weight:</b>	360.29	<b>Boiling point/range (°C):</b>	No data available
<b>pH:</b>	No data available	<b>Specific gravity (Water =1):</b>	No data available
<b>Vapor pressure (mmHg):</b>	No data available	<b>Evaporation rate (Water =1):</b>	No data available
<b>Water solubility (mg/l):</b>	No data available	<b>Water solubility (%):</b>	Soluble
<b>VOC content (%):</b>	No data available		

10. STABILITY AND REACTIVITY

**Stability:** Stable at normal conditions.

**Polymerization:** Will not occur.

**Hazardous decomposition products:** None under normal use.

**Materials to avoid:** None known.

**Conditions to avoid:** None known.

#### 11. TOXICOLOGICAL INFORMATION

**Acute toxicity:** No data is available on the product itself

#### 12. ECOLOGICAL INFORMATION

**Aquatic toxicity:** Not determined

**Persistence and degradability:** Not determined

#### 13. DISPOSAL CONSIDERATIONS

**Waste from residues / unused products:** Waste must be disposed of in accordance with federal, state and local environmental control regulations. Where possible recycling is preferred to disposal or incineration.

#### 14. TRANSPORT INFORMATION

**DOT (U.S.)**

**Proper shipping name:** Not regulated.

**TDG (Canada)**

**Proper shipping name:** Not regulated.

#### 15. REGULATORY INFORMATION

**U.S. Regulations:**

**Not subject to the provisions of SARA 313 Title III**

**Not subject to TSCA 12(b) Export Notification**

**State Regulations**

This product or its ingredients have been evaluated for New Jersey, Pennsylvania, and California Prop 65 supplier notification requirements. Substances that are subject to notification requirements, if any, are listed below.

**Canadian WHMIS**

MALTOSE MONOHYDRATE

WHMIS hazard class: Non-controlled

**International Inventories**

TSCA 8(b): Listed or exempt.

Canadian DSL: Listed or exempt.

EINECS: Listed or exempt.

Phillipines (PICCS): Listed.

Japan (ENCS): Listed.

Korea (KECL): Not listed.

China (IECS): Listed.

Australia (AICS): Listed.

## 16. OTHER INFORMATION

**Prepared by:** Ferro Pfanstiehl

**Disclaimer:**

The information and recommendations contained in this Material Safety Data Sheet have been compiled from sources believed to be reliable and to represent the most reasonable current opinion on the subject when the MSDS was prepared. No warranty, guaranty or representation is made as to the correctness or sufficiency of the information. The user of this product must decide what safety measures are necessary to safely use this product, either alone or in combination with other products, and determine its environmental regulatory compliance obligations under any applicable federal or state laws.

**End of Safety Data Sheet**