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**SECTION 1: IDENTIFICATION**

**Effective Date:** 12/17/96  
**Product Name:** Lactose, monohydrate  
**Common Name:**

**Chemical Formula:** C<sub>12</sub>H<sub>22</sub>O<sub>11</sub> H<sub>2</sub>O  
**CAS No.:** 64044-51-5

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**SECTION 2: HAZARDOUS INGREDIENTS:**

Slightly dangerous to dangerous in case of eye contact (irritant), of ingestion. Very slightly to slightly dangerous in case of skin contact (irritant, permeator), of inhalation.

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**SECTION 3: PHYSICAL DATA**

**Physical Data:**

Appearance and Odor:	solid
Boiling point:(760 mmHg):	decomposes (120°C or 249 °F)
Vapor Pressure (mmHg):	n/a
Specific Gravity (Water = 1):	1.525
Solubility in water:(by weight)	n/a
Melting Point:	decomposes (120°C or 249 °F)
Volatility:	n/a
Vapor Density:	n/a

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**SECTION 4: FIRE AND EXPLOSION DATA**

**Fire and Explosion Information: Material is combustible**

Flash point:	n/a
Flammable limit:	n/a
Extinguishing Media:	Dry chemicals, Co <sub>2</sub> , water spray, foam, fog
Unusual Fire and Explosion Hazards:	none

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**SECTION 5: REACTIVITY DATA**

**Reactivity Data:**

Stable   X   Unstable           

<b>Conditions to Avoid:</b>	non-corrosive in presence of glass
<b>Incompatibilities:</b>	n/a
<b>Hazardous Decomposition or byproducts:</b>	n/a
<b>Hazardous Polymerization:</b>	no

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**SECTION 6: HEALTH HAZARD DATA**

<b>Threshold Limit Value (TLV):</b>	n/a
<b>Permissible Exposure Limit:</b>	
<b>Toxicity:</b>	

**Oral LD50 (rat):**  
**NTP:**  
**IARC Monographs:**

n/a

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#### **SECTION 7: SPILLAGE AND DISPOSAL PROCEDURES**

**First Aid:**

**Eyes:** Check for and remove contact lenses. Do not use eye ointment. Seek medical attention.  
**Skin:** Remove contaminated clothes. Place victim under deluge shower. Wash contaminated skin with running water and non-abrasive soap. Cover irritated skin with emollient  
**Inhalation:** Allow victim to rest in well ventiated area. Seek medical attention.  
**Ingestion:** Remove any dentures. Have conscious person drink several glasses of water or milk. Induce vomiting. Seek medical attention.

**Spillage & Disposal:** Use appropriate tools to put spilled solid in convenient waste disposal container. Finish cleaning by spreading water on contaminated surface and dispose of according to local regional authority requirements.  
and

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#### **SECTION 8: PRECAUTION TO BE TAKEN IN HANDLING AND STORING**

**Other Precautions:** Keep away from heat, sources of ignition, and strong oxidizing agents. Keep container dry and in cool place. Ground all equipment containing material. Do not breathe dust. Avoid contact with eyes.

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#### **SECTION 9: SPECIAL PROTECTION INFORMATION**

**Ventilation:** Use process enclosure, local exhaust, or other engineering controls.  
**Eye Protection:** Splash goggles  
**Protective Gloves:** If large spill occurs  
**Respiratory Protection:**  
**Other Protective Gear:** Lab coat

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#### **SECTION 10: TRANSPORT INFORMATION**

**DOT classification:** Not a DOT controlled material

**DOT pictograms:**