

Revision Date: 6/28/2023 Review Date: 11/23/2022

# 1. Product and Company Information

Product Name: Lactose

Product Number: Hilmar™ 5000, 5010, 5020, 5030, 5100, 5110, 5120, 5120IF

Brand: Hilmar Ingredients

Product Uses: Food Ingredient

Manufacturer: Hilmar Ingredients

8901 N. Lander Ave. Hilmar, CA 95324

USA

Phone: 1-209-667-6076 FAX: 1-209-656-2557 Web: www.hilmar.com

In case of emergency contact: 1-209-667-6076

# 2. Hazard Identification

Substance Classification: GUS Classification in accordance with 29 CFR 1910

(OSHA HCS) Combustible dust

GHS Label Elements - Hazard Pictograms: Not a hazardous substance or mixture

Signal Word: Warning

Hazards not otherwise covered by GHS:

Can create dust and/or flammable dust hazard if handled improperly. Use in ventilated areas and provide adequate dust control.

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OSHA TWA: Irritant particulate – 15 mg/m³ total dust ACGIH TWA: Irritant particulate – 10 mg/m³ total dus

## 3. Compositional Information on Ingredients

Substance / Mixture: 4-O-β-D-Galactopyranosyl-D-glucose

Chemical Name: Lactose Monohydrate

CAS Number: 64044-51-5

Component	Typical Amount	Hazard Status
Lactose Monohydrate	99.1	None
Protein	0.3	None
Moisture	0.3	None
Ash	0.3	None



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## 4. First Aid Measures

Swallowed: Product fit for consumption as food

Inhaled: Minimize inhalation. If large amount inhaled move to fresh air. If breathing

problems occur consult a physician

Skin Contact: Wipe of excess, wash with clean water

Eye Contact: Wash eyes extensively with clean water. If irritation persists see a physician.

## 5. Fire Fighting Measures

Extinguishing Media: Use carbon dioxide, dry chemical, alcohol-resistant foam or water spray

depending on requirements of surrounding conditions

Hazards of Combustion: Non-combustible material. Any fine powder is susceptible to fire risk so

keep away from combustion sources. Lactose dust, like all fine powders,

is potentially explosive if present at high enough concentration.

Advice for Firefighters: Wear appropriate PPE consistent with the requirements of the

surrounding conditions

## 6. Accidental Release Measures

Personal Precautions, protective equipment and emergency procedures:

Spills can be cleanup with a dustpan and broom or shovel. Water can be used to flush spill areas. Avoid the production of dust as it can produce an explosion hazard at high enough concentrations. Dispose of spilled material by approved solid waste disposal measures. See Section 8 for any necessary personal protective equipment.

Environmental Precautions: Keep large quantities of this material from drains

Methods and Materials for Containment: Keep in closed container for disposal.

## 7. Handling and Storage

Safe Handling Precautions: Use a dust mask if handling large quantities. Always work in well

ventilated areas to avoid buildup of dust. Take precautionary measures against both airborne dust accumulation and static discharge as high

airborne dust concentrations can create a combustion hazard.

Safe Storage Conditions: Store at ambient temperature in closed containers located in well

ventilated areas



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## 8. Exposure Controls and Personal Protection

#### **Control Parameters**

Components with workplace control parameters: Does not contain components with occupational

exposure limits

Engineering Controls: Use in areas with adequate ventilation

#### **Personal Protective Equipment**

Eye / Face Protection: Safety glasses are recommended to minimize dust exposure

Skin Protection: Protective gloves are recommended

Respiratory Protection: Respiratory protection is not required. Use of a nuisance dust

mask, type OV/AG (US), is recommended

Environmental Protection: Keep large quantities of product from drains

## 9. Physical and Chemical Properties

Physical State: Solid

Appearance: White powder Odor: No Data pH: 4.0-7.0 Vapor Pressure: No Data **Boiling Point:** No Data Melting Point: No Data Flash Point: No Data **Evaporation Rate:** No Data

Flammability: May form combustible dust concentrations in air

Bulk Density: No Data Density: No Data Viscosity: No Data

Solubility: Soluble in water at ambient temperature

Corrosion Rate:

Decomposition Temperature:

Auto-ignition Temperature:

No Data

No Data

Partition Coefficient (Octanol/Water):

No Data

Explosive Properties: May for combustible dust concentrations in air

Oxidizing Properties: No Data



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# 10. Stability and Reactivity

Reactivity: No data available

Chemical Stability: Stable under recommended storage conditions

Possibility of Hazardous Reactions: No data available

Conditions to Avoid: Extreme heat

Incompatible Materials: Avoid strong oxidizing agents

Hazardous Decomposition Products: Hazardous decomposition products are not produced

## 11. Toxicological Information

Acute Toxicity: No data

Inhalation: No data

Dermal: No data

Skin Irritation: No data

Eye Damage / Eye Irritation: No data

Respiratory or Skin Sensitization: No data

Germ cell Mutagenicity: No data

Carcinogenicity:

IARC: No component of this product is present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC

ACGIH: No component of this product is present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by ACGIH

NTP: No component of this product is present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by NTP

OSHA: No component of this product is present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by OSHA

Reproductive Toxicity: No data

Specific Target Organ Toxicity – Single Exposure: No data



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Specific Target Organ Toxicity – Repeated Exposure: No data

Aspirational Hazard: No data

Additional Information: RTECS – Not available

# 12. Ecological Information

Toxicity: No data

Persistence and degradability: No data

Bioaccumulative Potential: No data

Mobility in Soil: No data

Results of PBT and vPvB Assessment: PBT/vPvB assessment not available as chemical safety

assessment not required / not conducted

Other Adverse Effects: No data

# 13. <u>Disposal Considerations</u>

Incinerate or dispose in sanitary landfill as per local, state and federal regulations

# 14. Transport Information

Proper Shipping Name (DOT-US, IMDG, IATA): Lactose monohydrate

DOT (US): Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

# 15. Regulatory Information

#### SARA 302 Components:

This material does not contain any chemical components that are subject to the reporting requirements of SARA Title III, Section 302.

#### SARA 313 Components:

This material does not contain any chemical components that are subject to the reporting requirements of SARA Title III, Section 313.

SARA 311/312 Hazards: No SARA hazards



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Massachusetts Right to Know Components:

No chemical components are subject to the Massachusetts Right to Know Act

Pennsylvania Right to Know Components:

Lactose monohydrate CAS-No. 64044-51-5

New Jersey Right to Know Components:

Lactose monohydrate CAS-No. 64044-51-5

California Prop. 65 Components:

This product does not contain any chemicals known to the State of California to cause cancer, birth defects or any other reproductive harm

## 16. Other Information

#### **HMIS Rating:**

Health Hazard: 0
Chronic Health Hazard: 0
Flammability: 0
Physical Hazard: 0

#### NFPA Rating:

Health Hazard: 0
Fire Hazard: 0
Reactivity Hazard: 0

#### **Preparation Information:**

Hilmar Cheese Company 1-209-667-6076

Version 2.0

Revision Date 1/10/2017 Print Date 1/10/2017

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#### Headquarters & Innovation Center

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