1. **Product and Company Information**

Product Name: Nonfat Dry Milk

Product Number: Nonfat Dry Milk, Low Heat, Medium Heat, High Heat, Organic and Conventional

Brand: Hilmar Ingredients

Product Uses: Food Ingredient

Manufacturer: Hilmar Ingredients
8901 N. Lander Ave.
Hilmar, CA 95325
USA
Phone: 1-209-667-6076
FAX: 1-209-656-2557
Web: [www.hilmaringredients.com](http://www.hilmaringredients.com)

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

2. **Hazard Identification**

Substance Classification: Not a hazardous substance or mixture by OSHA Hazard Communication Standard.

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

Signal Word: None

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.

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

3. **Compositional Information on Ingredients**

Substance / Mixture: Mixture

Chemical Name: Nonfat Dry Milk

CAS Number: None

<table>
<thead>
<tr>
<th>Component</th>
<th>Typical Amount %</th>
<th>Hazard Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protein (as is)</td>
<td>36.5</td>
<td>None</td>
</tr>
<tr>
<td>Carbohydrate</td>
<td>51.0</td>
<td>None</td>
</tr>
<tr>
<td>Fat</td>
<td>0.8</td>
<td>None</td>
</tr>
<tr>
<td>Moisture</td>
<td>3.8</td>
<td>None</td>
</tr>
<tr>
<td>Ash</td>
<td>7.9</td>
<td>None</td>
</tr>
</tbody>
</table>
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. Nonfat Dry Milk, 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

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Solid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Pale cream powder</td>
</tr>
<tr>
<td>Odor</td>
<td>Bland</td>
</tr>
<tr>
<td>pH</td>
<td>No Data</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>No Data</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>No Data</td>
</tr>
<tr>
<td>Melting Point</td>
<td>No Data</td>
</tr>
<tr>
<td>Flash Point</td>
<td>No Data</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>No Data</td>
</tr>
<tr>
<td>Flammability</td>
<td>May form combustible dust concentrations in air</td>
</tr>
<tr>
<td>Bulk Density</td>
<td>No Data</td>
</tr>
<tr>
<td>Density</td>
<td>No Data</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No Data</td>
</tr>
<tr>
<td>Solubility</td>
<td>Soluble in water at ambient temperature</td>
</tr>
<tr>
<td>Corrosion Rate</td>
<td>No Data</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>No Data</td>
</tr>
<tr>
<td>Auto-ignition Temperature</td>
<td>No Data</td>
</tr>
<tr>
<td>Partition Coefficient (Octanol/Water):</td>
<td>No Data</td>
</tr>
<tr>
<td>Explosive Properties</td>
<td>May for combustible dust concentrations in air</td>
</tr>
<tr>
<td>Oxidizing Properties</td>
<td>No Data</td>
</tr>
</tbody>
</table>
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

Specific Target Organ Toxicity – Repeated Exposure: No data
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. Disposal Considerations

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

14. Transport Information

- **Proper Shipping Name (DOT-US, IMDG, IATA):** Nonfat Dry Milk
- **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

- **Massachusetts Right to Know Components**
  No chemical components are subject to the Massachusetts Right to Know Act
Pennsylvania Right to Know Components
Nonfat Dry Milk

New Jersey Right to Know Components
Nonfat Dry Milk

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 1.0
Revision Date 3/30/2017
Print Date 3/30/2017

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