



Powdered Milk

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

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SECTION 1: IDENTIFICATION

1.1. Product Identifier

Product Form: Substance

Product Name: Powdered Milk

Chemical Family: Organic compound

CAS No: 8049-98-7 (Milk) and/or 92129-90-3 (Whey)

Synonyms: Sweet Whey Powder - All Grades and Categories; Dry Buttermilk - All Grades and Categories; Nonfat Dry; Milk, Cultured Skim Milk - All Grades and Categories; Milk Pro 70; Milk Pro 56; Milk Pro 40; Skim Milk Powder 34 - All Grades and Categories; Whey Protein Concentrate 34 - All Grades and Categories; Whole Milk Powder - All Grades and Categories

1.2. Intended Use of the Product

Use of the substance/mixture: No use is specified.

1.3. Name, Address, and Telephone of the Responsible Party

Company

Darigold, Inc.

5601 6th Ave S.

Seattle, WA 98108

1.4. Emergency Telephone Number

Emergency Number : 206-286-6845

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

Classification (GHS-US)

Combustible Dust

2.2 Label Elements

GHS-US Labeling

Signal Word (GHS-US) : Warning

Hazard Statements (GHS-US) : May form combustible dust concentrations in air.

2.3 Other Hazards

Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

2.4 Unknown Acute Toxicity (GHS-US)

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Names : Powdered Milk

Whey Powder

CAS No : 8049-98-7

92129-90-3

| Name | Product Identifier | % | Classification (GHS-US) |
|------|---------------------|-----|-------------------------|
| Milk | (CAS No) 8049-98-7 | 100 | Combustible Dust |
| Whey | (CAS No) 92129-90-3 | 100 | Combustible Dust |



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3.2. Mixture

Not applicable

SECTION 4: FIRST AID MEASURES

4.1. Description of First Aid Measures

First-aid Measures General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).

First-aid Measures After Inhalation: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.

First-aid Measures After Skin Contact: Do not rub. Gently wash with plenty of soap and water. Wash contaminated clothing before reuse. Obtain medical attention if irritation develops or persists.

First-aid Measures After Eye Contact: Do not rub. Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.

First-aid Measures After Ingestion: Not required. Call a POISON CENTER/doctor/physician if you feel unwell.

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

Symptoms/Injuries: None expected under normal conditions of use. May cause irritation or allergy symptoms in individuals with milk allergies. Product contains common milk proteins. These proteins are potential allergens and include; caseins (alpha-, beta-, kappa-), beta-lactoglobulin, alpha-lactalbumin, bovine serum albumin, bovine immunoglobulins.

Symptoms/Injuries After Inhalation: Prolonged inhalation of dust may cause respiratory irritation

Symptoms/Injuries After Skin Contact: Dust may cause irritation in skin folds or by contact in combination with tight clothing. Symptoms may include: Redness, pain, swelling, itching, burning, dryness, and dermatitis.

Symptoms/Injuries After Eye Contact: Dust from this product may cause minor eye irritation. Symptoms may include: Redness, pain, swelling, itching, burning, tearing, and blurred vision.

Symptoms/Injuries After Ingestion: Ingestion of the dusts of this product may cause irritation of the mucus membranes.

Chronic Symptoms: None expected under normal conditions of use.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If you feel unwell, seek medical advice.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Dry chemical, carbon dioxide, foam, water spray.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Combustible Dust. Dust explosion hazard in air. Supports combustion at high temperatures.

Explosion Hazard: Avoid dust clouds in combination with static electricity. Dust clouds can be explosive.

Reactivity: Product is stable.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire. Under fire conditions, hazardous fumes will be present.



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Firefighting Instructions: Use water spray or fog for cooling exposed containers. In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. Do not allow run-off from firefighting to enter drains or water sources. Stop leak if safe to do so.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Other Information: Refer to Section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid generating dust. Do not breathe dust. Avoid all contact with skin, eyes, or clothing. Keep away from open flames, hot surfaces and sources of ignition. Use special care to avoid static electric charges.

6.1.1. For Non-emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Responders

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

6.2. Environmental Precautions

Prevent entry to sewers and public waters.

6.3. Methods and Material for Containment and Cleaning Up

For Containment: Avoid generation of dust during clean-up of spills. Contain and collect as any solid.

Methods for Cleaning Up: Avoid actions that cause dust to become airborne during clean-up such as dry sweeping or using compressed air. Use HEPA vacuum or thoroughly wet with water to clean-up dust. Use PPE described in Section 8. Vacuum clean-up is preferred. If sweeping is required use a dust suppressant. Use only non-sparking tools. Clean up spills immediately and dispose of waste safely. Practice good housekeeping - spillage can be slippery on smooth surface either wet or dry.

6.4. Reference to Other Sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Precautions for Safe Handling: Avoid creating or spreading dust. Fine dust of the product is capable of dust explosion. Avoid all sources of ignition: heat, sparks, open flame. Take precautionary measures against static discharge.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Provide local exhaust or general room ventilation.

Storage Conditions: Store in a dry, cool and well-ventilated place. Protect from moisture. Keep container closed when not in use. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Ignition sources.

Incompatible Products: None known.



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7.1. Specific End Use(s) No use is specified.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), or OSHA (PEL).

| Particulates not otherwise classified (PNOC) (RR-00072-6) | | |
|---|-------------------------------------|--|
| USA ACGIH | ACGIH TWA (mg/m ³) | 3 mg/m ³ Respirable fraction 10 mg/m ³ Total Dust |
| USA OSHA | OSHA PEL (TWA) (mg/m ³) | 5 mg/m ³ Respirable fraction 15 mg/m ³ Total Dust |

8.2 Exposure Controls

- Appropriate Engineering Controls** : Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.
 - Personal Protective Equipment** : Protective goggles. In case of dust production: dustproof clothing. Dust formation: dust mask. Gloves.
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- Hand Protection** : Wear protective gloves.
 - Eye Protection** : Chemical goggles or safety glasses.
 - Skin and Body Protection** : Wear suitable protective clothing.
 - Respiratory Protection** : If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.
 - Environmental Exposure Controls** : Do not allow the product to be released into the environment.
 - Consumer Exposure Controls** : Do not eat, drink or smoke during use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties

- Physical State** : Solid
- Appearance** : Off-white dry powder
- Odor** : Characteristic of milk
- Odor Threshold** : No data available
- pH** : No data available
- Evaporation Rate** : No data available
- Melting Point** : No data available



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| | |
|---|--|
| Freezing Point | : No data available |
| Boiling Point | : No data available |
| Flash Point | : No data available |
| Auto-ignition Temperature | : No data available |
| Decomposition Temperature | : No data available |
| Flammability (solid, gas) | : No data available |
| Vapor Pressure | : No data available |
| Relative Vapor Density at 20 °C | : No data available |
| Relative Density | : No data available |
| Solubility | : Soluble in water |
| Partition Coefficient: N-Octanol/Water | : No data available |
| Viscosity | : No data available |
| Explosion Data | : OSHA CPL 03-00-008 "Combustible Dust National Emphasis Program" list powdered milk in Explosion Class "ST 1" with a "Weak" characteristic. |

9.2. Other Information No additional information available

SECTION 10: STABILITY AND REACTIVITY

- 10.1. Reactivity:** Product is stable.
- 10.2. Chemical Stability:** Stable under recommended handling and storage conditions (see section 7).
- 10.3. Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.
- 10.4. Conditions to Avoid:** Direct sunlight. Extremely high or low temperatures. Incompatible materials. Moisture.
- 10.5. Incompatible Materials:** None known.
- 10.6. Hazardous Decomposition Products:** Under fire conditions this material may produce hazardous carbon dioxide (CO₂), carbon monoxide (CO), various low molecular weight hydrocarbons, and smoke.

SECTION 11: TOXICOLOGICAL INFORMATION

- 11.1. Information On Toxicological Effects**
 - Acute Toxicity:** Not classified
 - Skin Corrosion/Irritation:** Not classified
 - Serious Eye Damage/Irritation:** Not classified
 - Respiratory or Skin Sensitization:** Not classified
 - 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



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Symptoms/Injuries After Inhalation: Prolonged inhalation of dust may cause respiratory irritation

Symptoms/Injuries After Skin Contact: Dust may cause irritation in skin folds or by contact in combination with tight clothing.

Symptoms may include: Redness, pain, swelling, itching, burning, dryness, and dermatitis

Symptoms/Injuries After Eye Contact: Dust from this product may cause minor eye irritation. Symptoms may include:

Redness, pain, swelling, itching, burning, tearing, and blurred vision

Symptoms/Injuries After Ingestion: Ingestion of the dusts of this product may cause irritation of the mucus membranes

Chronic Symptoms: None expected under normal conditions of use

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity No additional information available

12.2. Persistence and Degradability No additional information available

12.3. Bioaccumulative Potential No additional information available

12.4. Mobility in Soil No additional information available

12.5. Other Adverse Effects No additional information available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, and international regulations.

SECTION 14: TRANSPORT INFORMATION

14.2. In Accordance with IMDG Not regulated for transport

14.3. In Accordance with IATA Not regulated for transport

SECTION 15: REGULATORY INFORMATION

15.1 US Federal Regulations Neither this product nor its chemical components appear on any US federal lists.

15.2 US State Regulations Neither this product nor its chemical components appear on any US state lists.

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision Date : 07/26/2017

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

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.