

Safety Data Sheet

Date created: Feb. 26, 2014

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1. Product and Company Identification

- Product name: CLUSTER DEXTRIN
 - Company name: Glico Nutrition Co., Ltd.
Address: 4-6-5, Utajima, Nishiyodogawa-ku, Osaka, Japan
Tel/Fax: 81-6-6477-8383 / 81-6-6477-8673
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2. Summary of Harm and Hazards

- GHS Classifications: Not classified
 - Harm and hazards: Taking care not to start fires. When a lot of powder is in the air, the fire is likely to spread rapidly.
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3. Composition/Information on Ingredients

- Chemical name/General name: Maltodextrin (Highly Branched Cyclic Dextrin)
 - CAS number: 9050-36-6
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4. First Aid Measures

- Inhalation: Remove affected person into the place where the air is fresh and keep them comfortable position for breathing.
 - Eye contact: Flush out eyes with water for a few minutes.
Remove contact lens, if can be done easily.
 - Skin contact: Wash hands with a large amount of water.
 - Contact on clothes: Take off contaminated clothing and wash before reuse.
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5. Fire Fighting Measures

- Extinguishing media
 - Small fire: Carbon dioxide, powder fire-extinguisher, watering, foam fire-extinguisher, etc.
 - Great fire: Carbon dioxide, powder fire-extinguisher, watering, foam fire-extinguisher, etc.
 - Extinguishing media you must not use: None.
 - Specific hazard information: When a lot of powder is in the air, the fire can spread rapidly.
 - Specific fire fighting ways: None.
 - Protection for fire fighter: Wear an appropriate respirator and chemical protective clothing.
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6. Accidental Release Measure

- Personal precautions, protective equipment, and measures in a time of crisis: Sufficiently ventilate the workplace.
Put on appropriate protective equipment.
(Refer to "8. Exposure controls, personal protection")
 - Environmental precautions: Take care not to pollute environment (e.g., rivers) by discharging this product.
 - Collection: Collect by vacuuming as much as possible, and wipe off the rest.
 - Measures and equipment for containment and cleaning: None.
 - Preventing measures against secondary disaster: Remove all sources of ignition.
Do not smoke and light a fire around the spot.
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7. Handling and Storage

● Handling

○ Technical measures: Implement facility measures, and put on protective equipment.
(Refer to “8. Exposure controls, personal protection”)

○ Precautions:

- Do not make an impact with drop, fall, drag etc.
Sufficiently ventilate the workplace.
- Do not contact to your eyes.
- Wash hands after handling this product.

● Storage: Store at room temperature avoiding direct sunlight and humidity.

8. Exposure controls, personal protection

● Management concentration: Not set

● Allowable concentration: Not set

● Facility measures: It's recommended to set up equipment of ventilation and sufficiently ventilate the workplace.

● Protective equipment: Put on groves, protective glasses, and mask.

9. Physical and Chemical properties

● Physical state: Powder

● Color: White

● Odor: No odor

● Solubility: Soluble in water, insoluble in organic solvent

● pH: 4.0~6.0

● Melting point, Boiling point, Flash point, Explosive limits, Vapor pressure,
Relative vapor density, Density, Octanol/water partition coefficient,
Spontaneous ignition point, Decomposition temperature, Threshold value of odor,
Speed of evaporation, Viscosity: No data

10. Stability and Reactivity

● Stability: Stable in normal condition.

● Possible hazardous Reactions: No hazardousness in normal use.

● Conditions to avoid: High-temperature, humidity, direct light.

● Incompatible materials: None.

● Hazardous Decomposition: Carbon monoxide can be produced by the incomplete combustion.

11. Toxicological Information

● Acute toxicity: Acute oral toxicity in rats: No toxicity was observed even at the maximum dose (2,000 mg/kg).

● Skin irritation: Primary skin irritation test: Negative
Human patch test: No abnormality was observed.

● Eye irritation: No data

● Respiratory sensitization: No data

● Skin sensitization: Negative

● Germ cell mutagenicity: No data

● Carcinogenicity: No data

● Specific target organ toxicity (single exposure): No data

● Specific target organ toxicity (repeated exposure): No data

● Inhalation respiratory hazard: No data

12. Ecological Information

- Hazards to the aquatic environment (acute, chronic): No information.
Since the substance is highly biodegradable, no harmful environmental effects are expected.
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13. Disposal Considerations

- Remaining wastes: Comply with related laws and regulations when you dispose, or when you entrust to the waste disposal services.
 - Polluted container: Dispose it in accordance with related laws and regulations.
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14. Transport Information

- International regulations: Not Applicable
 - Domestic regulations: Not Applicable
 - Precautions: When loading, take care not to break the bag by drop, fall etc.
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15. Regulatory Information

- Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. (Japan): No target chemical substances are included.
- Industrial Safety and Health Act (Japan): No notifiable substances (Article 57-2) are included.
- Toxic Substances Control Act (U.S.A.): Listed in the TSCA inventory.

* Regulatory information with regard to this product in your country or region should be examined by your own responsibility.

16. Other Information

- Disaster: No report of disaster has been received.
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* This datasheet is prepared based on our available information to provide reference information. Therefore, it does not provide any guarantees. Hereafter, this document will be revised when new or significant information becomes available.