



NEWAY SINOPHC TECH. LIMITED

ADD:RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE.
Email:marketing01@newayphc.com; Phone:+86-021-50350029 <https://www.newayphc.com>

Safety Data Sheet (MSDS)

According to GB/T 16483 and GB/T 17519; Adapts to GHS, IMDG, IATA Standards Product Name:

Trehalose (Feed Grade) Revision Date: February 27, 2026

SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Identifiers

- Product Name: Trehalose Dihydrate (Feed Grade)
- CAS-No.: 99-20-7
- Synonyms: α,α -Trehalose; Mushroom sugar; D(+)-Trehalose dihydrate
- Molecular Formula: $C_{12}H_{22}O_{11} \cdot 2H_2O$
- Molecular Weight: 378.33 g/mol

1.2 Details of the Supplier

- Company: NEWAY SINOPHC TECH. LIMITED
- Address: RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE.
- Telephone: +86-021-50350029
- Fax: +86-021-50350029

1.3 Emergency Telephone

- Emergency Phone #: +86-021-50350029 (CHEMTREC)

1.4 Uses

- **Identified Uses:** Feed additive; moisture retainer; stabilizer for proteins and enzymes in animal feed; palatability enhancer.
- **Uses Advised Against:** Not for pharmaceutical injection; no use in infant formula without specific approval.

SECTION 2: Hazards Identification

- **GHS Classification:** Not classified as hazardous under GHS (Regulation (EC) 1272/2008).
- **Label Elements:** No pictograms; No signal word; No hazard statements.
- **Precautionary Statements:** P261, P271, P330.
- **Health Hazards:** Generally regarded as safe (GRAS). Inhalation of dust may cause mild respiratory irritation. Large oral doses may cause mild gastrointestinal upset (diarrhea).
- **Physical Hazards:** Non-flammable, non-explosive.
- **Environmental Hazards:** Readily biodegradable, low toxicity to aquatic life.

SECTION 3: Composition/Information on Ingredients

- **Substance:** Pure substance.
- **Ingredient:** Trehalose Dihydrate (100%, CAS 99-20-7).
- **Hazardous Impurities:** None.

SECTION 4: First-Aid Measures

- **Inhalation:** Remove to fresh air. If coughing persists, seek medical advice.
- **Skin Contact:** Wash with soap and water. No special treatment required.
- **Eye Contact:** Rinse thoroughly with water for 10-15 minutes. Remove contact lenses if present.



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- **Ingestion:** Rinse mouth. Give plenty of water to drink. Do not induce vomiting. If gastrointestinal symptoms persist, consult a physician.

SECTION 5: Fire-Fighting Measures

- **Extinguishing Media:** Water spray, dry chemical, foam, or carbon dioxide (CO₂).
- **Hazardous Combustion Products:** Carbon monoxide (CO), carbon dioxide (CO₂).
- **Firefighter Precautions:** Wear self-contained breathing apparatus (SCBA) and full protective gear if involved in a large fire.

SECTION 6: Accidental Release Measures

- **Personal Precautions:** Wear dust mask (FFP1) and gloves. Avoid dust formation.
- **Environmental Precautions:** Prevent entry into drains or water courses.
- **Methods for Clean-Up:** Sweep up and collect in a sealed container for reuse or disposal. Avoid creating dust clouds.

SECTION 7: Handling and Storage

- **Handling:** Avoid breathing dust. Use in a well-ventilated area. Wash hands after handling.
- **Storage:** Store in a cool, dry, well-ventilated warehouse. Keep container tightly closed to prevent moisture absorption or drying (loss of water of hydration).
- **Incompatibilities:** Strong oxidizing agents.
- **Shelf Life:** 24 months from date of manufacture when stored as directed.

SECTION 8: Exposure Controls/Personal Protection

- **Engineering Controls:** Local exhaust ventilation if dust is generated.
- **Personal Protective Equipment:**
 - **Eyes:** Safety glasses with side shields.
 - **Skin:** Nitrile gloves.
 - **Respiratory:** Dust respirator (FFP1) if dust levels are high.

SECTION 9: Physical and Chemical Properties

- **Appearance:** White crystalline powder.
- **Odor:** Odorless.
- **Taste:** Mildly sweet.
- **pH:** 5.0 - 6.5 (5% w/v solution).
- **Melting Point:** 97°C (anhydrous form); Decomposes above 200°C.
- **Solubility:** Freely soluble in water (~68 g/100 mL at 25°C); Slightly soluble in ethanol; Insoluble in ether.
- **Bulk Density:** 0.7 - 0.9 g/cm³.
- **Vapor Pressure:** Negligible.

SECTION 10: Stability and Reactivity

- **Stability:** Stable under normal conditions. Stable to heat, acid, and enzymatic hydrolysis (resistant to acid compared to other disaccharides).
- **Hazardous Reactions:** No hazardous reactions known under normal use.



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- **Hazardous Decomposition Products:** CO, CO₂.

SECTION 11: Toxicological Information

- **Acute Toxicity:** LD₅₀ (oral, rat) > 20,000 mg/kg. Practically non-toxic.
- **Skin Irritation:** Non-irritating.
- **Eye Irritation:** Non-irritating to mildly irritating.
- **Chronic Effects:** No adverse chronic effects reported. It is a natural sugar found in nature (e.g., in yeast, mushrooms, insects).

SECTION 12: Ecological Information

- **Aquatic Toxicity:** Low toxicity to fish and daphnia.
- **Persistence and Degradability:** Readily biodegradable under aerobic conditions.
- **Bioaccumulation Potential:** None.
- **Mobility:** High mobility in soil due to high water solubility.

SECTION 13: Disposal Considerations

- **Waste Disposal:** Dispose of in accordance with local regulations. Uncontaminated material can be recycled or disposed of as non-hazardous waste.
- **Container Disposal:** Rinse containers thoroughly. Recycle or dispose of as non-hazardous waste.

SECTION 14: Transport Information

- **UN Number:** Not applicable (Non-hazardous).
- **UN Proper Shipping Name:** Not dangerous goods.
- **Transport Class:** Not applicable.
- **Packing Group:** Not applicable.
- **Marine Pollutant:** No.
- **Precautions:** Protect from moisture and extreme temperatures during transport.

SECTION 15: Regulatory Information

- **China:** Complies with GB 13078 (Feed Hygiene Standard) and listed in the Feed Additive Variety Catalogue.
- **EU:** Complies with REACH and EC 1831/2003 (Feed Additives).
- **US:** GRAS listed, approved for use in animal feed (FDA).

SECTION 16: Other Information

- This MSDS is prepared in accordance with GB/T 16483 and GHS standards. The information is based on the best available data as of the date of issue.