



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)

- Xylo-Oligosaccharide 50% (Liquid)

(According to GB/T 16483 and GB/T 17519; Adapts to GHS, IMDG, IATA Standards) **Product**

Name: Xylo-Oligosaccharide 50% (Liquid) **Revision Date:** 25 FEB 2026

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

1.1 Product Identifiers

- Product Name: Xylo-Oligosaccharide 50% (Liquid)
- Synonyms: XOS 50% Liquid; Xylo-oligosaccharides; Oligoxylose
- Product Number: XOS-50L-20260225
- Brand: SIGALD
- CAS-No.: 87-89-8 (Xylose, monomer reference)
- Main Components: Xylo-oligosaccharides (DP 2-10, 55.8%), Water (42.0%)
- Molecular Weight: Variable (oligomer mixture)

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

1.4 Uses

- **Identified Uses:** Food additive (prebiotic, sweetener); dietary supplement raw material; beverage formulation; animal feed additive; pharmaceutical excipient.
- **Uses Advised Against:** No specific restricted uses identified; not for industrial non-food applications.

SECTION 2: Hazards Identification

2.1 GHS Classification

- **Not Classified** as hazardous according to GHS criteria.

2.2 GHS Label Elements

- **Pictograms:** None
- **Signal Word:** None
- **Hazard Statements:** None
- **Precautionary Statements:** None (standard handling precautions apply)

2.3 Physical and Chemical Hazards

Non-flammable, non-explosive, non-corrosive. No physical or chemical hazards under normal conditions.

2.4 Health Hazards

- **Acute:** Generally regarded as safe (GRAS). May cause mild gastrointestinal discomfort (bloating, flatulence) if consumed in excessive amounts (> 30g/day) due to prebiotic fermentation.
- **Chronic:** No known chronic health hazards with normal consumption.

2.5 Environmental Hazards

- Not hazardous to the environment. Readily biodegradable and non-toxic to aquatic life.

SECTION 3: Composition/Information on Ingredients

- **Mixture:** Aqueous solution of natural prebiotic oligosaccharides.
- **Non-Hazardous Ingredients:**

Ingredient

CAS No. Concentration (w/w) GHS Classification



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Ingredient	CAS No.	Concentration (w/w)	GHS Classification
Xylo-Oligosaccharides (DP 2-10) -		50.0-55.8%	Non-hazardous
Water	7732-18-5	40.0-50.0%	Non-hazardous
Xylose (minor)	87-89-8	≤ 5.0%	Non-hazardous

SECTION 4: First Aid Measures

- **Inhalation:** Not applicable (liquid, low volatility). If mist is inhaled, move to fresh air.
- **Skin Contact:** No adverse effects expected. Wash with soap and water if desired.
- **Eye Contact:** Rinse gently with water if contact occurs. No serious irritation expected.
- **Ingestion:** Generally safe for consumption. If large amounts are ingested and cause severe gastrointestinal distress, consult a physician. Do not induce vomiting.

SECTION 5: Firefighting Measures

- **Suitable Media:** Water spray, dry chemical, foam, carbon dioxide (CO₂).
- **Unsuitable Media:** None.
- **Special Hazards:** Non-flammable. Combustion at very high temperatures may produce carbon monoxide and water vapor.
- **Advice:** No special fire-fighting precautions required. Treat as a non-combustible material.

SECTION 6: Accidental Release Measures

- **Personal Precautions:** No special PPE required. Wear gloves to prevent slippery surfaces.
- **Environmental Precautions:** No restrictions. Material is biodegradable and safe for drainage in moderate quantities.
- **Clean-up:** Absorb with inert material (e.g., sawdust, sand) or mop up. Wash area with water. Dispose of waste as non-hazardous material.

SECTION 7: Handling and Storage

- **Handling:** Handle as a normal food ingredient. Avoid contamination during handling. Wash hands after use.
- **Storage:** Store in a cool, dry place (5-25°C) in a sealed container. Protect from direct sunlight and freezing (may cause crystallization, quality remains unaffected after thawing).
- **Incompatibilities:** Strong oxidizing agents (may cause degradation).
- **Shelf Life:** 18 months (unopened, under specified conditions).

SECTION 8: Exposure Controls/Personal Protection

- **Exposure Limits:** No occupational exposure limits required.
- **Engineering Controls:** Good general ventilation is sufficient.
- **Personal Protective Equipment (PPE):**
 - **Eye/Face:** Safety glasses recommended for bulk handling to prevent splashing.
 - **Skin:** Nitrile or latex gloves recommended for hygiene purposes.
 - **Respiratory:** Not required under normal conditions.

SECTION 9: Physical and Chemical Properties

- **State:** Viscous liquid
- **Color:** Colorless to pale yellow
- **Odor:** Mild, characteristic sweet odor
- **Flash Point:** > 100°C (Non-flammable)
- **Boiling Point:** 100-105°C (water evaporation)
- **Freezing Point:** -5°C to 0°C (partial crystallization)
- **Relative Density:** 1.20 - 1.25 (20/20°C)
- **Refractive Index:** 1.4200 - 1.4300 (20°C)
- **Solubility:** Miscible with water; Insoluble in ethanol, ether and organic solvents.
- **Viscosity:** 150-300 mPa·s (25°C)

- **pH Value:** 4.0 - 6.0 (10% aqueous solution)

SECTION 10: Stability and Reactivity

10.1 Chemical Stability

Stable under normal storage and handling conditions. Stable to heat processing (pasteurization, sterilization) typical in food manufacturing.

10.2 Possibility of Hazardous Reactions

No hazardous polymerization or decomposition expected.

10.3 Conditions to Avoid

Prolonged exposure to high temperatures (> 120°C) and strong oxidizing agents.

10.4 Incompatible Materials

Concentrated nitric acid, hydrogen peroxide (high concentration).

10.5 Hazardous Decomposition Products

Carbon dioxide and water (complete combustion); no toxic decomposition products.

SECTION 11: Toxicological Information

- **Acute Toxicity:** LD₅₀ (Oral, Rat) > 20,000 mg/kg. Practically non-toxic.
- **Skin Irritation:** Non-irritating to skin (Rabbit test).
- **Eye Irritation:** Non-irritating to eyes (Rabbit test).
- **Sensitization:** No skin sensitization potential.
- **Carcinogenicity:** IARC Group 3 (Not classifiable; GRAS status by FDA).
- **Reproductive Toxicity:** No adverse effects on reproduction observed in animal studies.

SECTION 12: Ecological Information

- **Toxicity:** Non-toxic to fish, daphnia and algae (LC₅₀ > 1000 mg/L).
- **Persistence and Degradability:** Readily biodegradable (> 90% in 28 days) by microorganisms in water and soil.
- **Bioaccumulative Potential:** None (water-soluble carbohydrate).
- **Mobility in Soil:** High mobility (water-soluble), but rapidly degraded by soil microbes.

SECTION 13: Disposal Considerations

- **Product Waste:** Dispose of as non-hazardous food waste. May be discharged into sewage systems in compliance with local regulations (biodegradable).
- **Packaging Waste:** Rinse packaging and dispose of as recyclable waste (plastic/glass) or non-hazardous solid waste.

SECTION 14: Transport Information

- **UN Number:** Not applicable (Non-dangerous goods)
- **UN Proper Shipping Name:** Not applicable
- **Class:** Not applicable
- **Packing Group:** Not applicable
- **Marine Pollutant:** No
- **Special Precautions:** Transport as non-dangerous food grade cargo. Protect from freezing and direct sunlight. Use food-grade packaging materials.

SECTION 15: Regulatory Information

- **EU:** REACH Registered (Exempt for food ingredients). Compliant with EU Novel Food Regulation and EC 1333/2008 (Food Additives).
- **US:** FDA GRAS (Generally Recognized as Safe). Listed in the FEMA GRAS database. Compliant with 21 CFR.
- **China:** Compliant with GB 2760-2021 (Food Additive), GB/T 23532 (Xylo-oligosaccharides National Standard). Approved as a prebiotic food ingredient.
- **Codex Alimentarius:** Compliant with Codex standards for carbohydrate food ingredients.

SECTION 16: Other Information



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- **Further Information:** This product is a natural prebiotic with selective fermentation properties for beneficial gut bacteria (Bifidobacteria).
- **Revision Note:** First revision of MSDS for Xylo-Oligosaccharide 50% (Liquid).
- **Disclaimer:** This MSDS is based on current scientific data. The supplier is not liable for damage caused by improper use or contamination.



纳维盈医化科技
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