



Material Safety Data Sheet

3'-Fucosyllactose

1. Product and Company Identification

Material Identity

Product Name: 3'-fucosyllactose

Supplier Company: Across Biotech Jinan Co., Ltd

Address: Room 467, 4th Floor, Zhongrun shiji Center Building 3, Jingshi Road No. 12111, Lixia District, Jinan, China

Tel: +86-531-68652497

2. Hazards Identification

Hazard Category: This product is non-hazardous

Health hazards: Acute and chronic toxicology tests show no acute irritation or toxic effects.

Exposure routes: Inhalation, Ingestion, Skin/Eye contact

Environmental hazards: No hazard, handle product with good working practice and avoid dispersion into the environment.

Flammability hazard: Non-flammable and explosive materials

3. Composition/Information on Ingredients

Substance name: 3'-fucosyllactose

CAS No: 41312-47-4

Synonyms: 3-FL

Formula: C₁₈H₃₂O₁₅

Component	CAS Number	Assay
3'-fucosyllactose	41312-47-4	≥ 95%

4. First Aid Measures

Skin Contact: Non-hazardous, rinse skin with running water

Eye Contact: Immediately open the upper and lower eyelids and rinse with running water or

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physiological saline.

Inhalation: Non-volatile, non-hazardous

Ingestion: Rinse mouth with food water

5. Fire Fighting Measures

Hazardous characteristics: This product will not burn when exposed to open flames or high temperatures, and is non-oxidizing and corrosive.

Hazardous combustion products: No

Fire extinguishing methods and fire extinguishing media: Use water spray, dry chemical powder, foam or carbon dioxide fire extinguishing media to extinguish the fire.

Special operations for fire extinguishing: No

6. Accidental Release Measures

Emergency treatment: If this product leaks, do not touch the power supply. Cut off the power supply before the leakage is removed.

Cleaning method: Clean with detergent and water until the product is completely removed.

7. Handling and Storage

Handling precaution: No special precautions required

Storage: Stored in a cool, dry place at room temperature and keep in a tightly closed container

Shelf-life limit: Unopened containers have a shelf life of 36 months from the date of production. Once opened, they should be tested to confirm whether they meet product quality standards.

8. Exposure Controls/Personal Protection

Monitoring method: This product does not contain harmful ingredients no special monitoring is required.

Engineering Controls: Avoid mixing with items that may cause contamination.

Respiratory protection: Non-irritating to the respiratory system.

Eye protection: Avoid splashing into eyes.

Body protection: No special protection required.

Hand protection: Wear clean latex gloves when handling.

9. Physical and Chemical Properties

Appearance: White or off-white powder



Solubility: Miscible with water
Boiling point: 803.2 at 760 mmHg
Flash point: 439.6°C
Melting point: >165°C
Density: 1.73 g/cm³
Flammability: No
Explosive properties: No

10. Stability and Reactivity

Stability: Stable under normal handling and storage conditions.
Incompatible materials: No data available
Conditions to avoid: Avoid storing with contaminated products
Hazardous polymerization reactions: No
Decomposition products: Non-hazardous decomposition products

11. Toxicological Information

Acute oral toxicity test: Non-toxic
Sensitization: Non-sensitizing
Others: No

12. Ecological Information

Biodegradability: No data available
Ecotoxicity: No data available

13. Disposal Considerations

Industrial Waste: Yes; Hazardous waste: No
The disposal of waste must comply with the relevant legal requirements of the local country or region.

14. Transport Information

International Transportation Regulations
Sea: Not applicable
Air: Not applicable



15. Regulatory Information

Hazard labeling: Not required

This document only provides safety information related to this product.

16. Other Information

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.