

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Lacto-N-fucopentaose II

Product Number : 03499  
Brand : Fluka

Company : Sigma-Aldrich Canada, Ltd  
2149 Winston Park Drive  
OAKVILLE ON L6H 6J8  
CANADA

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## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms :  $\beta$ -D-Gal-(1 $\rightarrow$ 3)-( $\alpha$ -L-Fuc-[1 $\rightarrow$ 4]) $\beta$ -D-GlcNAc-(1 $\rightarrow$ 3) $\beta$ -D-Gal-(1 $\rightarrow$ 4)-D-Glc  
Lewis-a pentasaccharide  
Lea-Lactose  
LNFP II

Formula : C<sub>32</sub>H<sub>55</sub>NO<sub>25</sub>  
Molecular Weight : 853.77 g/mol

| CAS-No.                 | EC-No. | Index-No. | Concentration |
|-------------------------|--------|-----------|---------------|
| Lacto-N-fucopentaose II |        |           |               |
| 21973-23-9              | -      | -         | -             |

## 3. HAZARDS IDENTIFICATION

## WHMIS Classification

Not WHMIS controlled.

Not WHMIS controlled.

## HMIS Classification

Health Hazard: 0  
Flammability: 0  
Physical hazards: 0

## Potential Health Effects

**Inhalation** : May be harmful if inhaled. May cause respiratory tract irritation.  
**Skin** : May be harmful if absorbed through skin. May cause skin irritation.  
**Eyes** : May cause eye irritation.  
**Ingestion** : May be harmful if swallowed.

## 4. FIRST AID MEASURES

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## If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration

## In case of skin contact

Wash off with soap and plenty of water.

## In case of eye contact

Flush eyes with water as a precaution.

## If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

## 5. FIRE-FIGHTING MEASURES

## Flammable properties

Flash point : no data available

Ignition temperature : no data available

## Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

## Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

## 6. ACCIDENTAL RELEASE MEASURES

## Personal precautions

Avoid dust formation.

## Environmental precautions

Do not let product enter drains.

## Methods for cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE

## Handling

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

## Storage

Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: -20 °C

Store under inert gas. Moisture sensitive.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

## Personal protective equipment

## Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## Hand protection

For prolonged or repeated contact use protective gloves.

## Eye protection

Safety glasses

## Hygiene measures

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General industrial hygiene practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

## Appearance

Form : solid  
Colour : white

## Safety data

pH : no data available  
Melting point : no data available  
Boiling point : no data available  
Flash point : no data available  
Ignition temperature : no data available  
Lower explosion limit : no data available  
Upper explosion limit : no data available  
Water solubility : no data available

## 10. STABILITY AND REACTIVITY

## Storage stability

Stable under recommended storage conditions.

## Materials to avoid

Strong oxidizing agents

## Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx)

## 11. TOXICOLOGICAL INFORMATION

## Acute toxicity

no data available

## Irritation and corrosion

no data available

## Sensitisation

no data available

## Chronic exposure

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

## Potential Health Effects

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## 12. ECOLOGICAL INFORMATION

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## Elimination information (persistence and degradability)

no data available

## Ecotoxicity effects

no data available

## Further information on ecology

no data available

## 13. DISPOSAL CONSIDERATIONS

## Product

Observe all federal, state, and local environmental regulations.

## Contaminated packaging

Dispose of as unused product.

## 14. TRANSPORT INFORMATION

## DOT (US)

Not dangerous goods

## IMDG

Not dangerous goods

## IATA

Not dangerous goods

## 15. REGULATORY INFORMATION

## TSCA Status

Not On TSCA Inventory

CAS-No.

Lacto-N-fucopentaose II

21973-23-9

## DSL Status

This product contains the following components that are not on the Canadian DSL nor NDSL lists.

Lacto-N-fucopentaose II

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## 16. OTHER INFORMATION

## Further information

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