## MATERIAL SAFETY DATA SHEET

Date Printed: 06/05/2009 Date Updated: 10/25/2006 Version 1.0

SARA 313

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Section 1 - Product and Company Information
Product Name
                              LACTO-N-NEO-TETRAOSE
                              L6543
Brand
                              SIGMA
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Product Number

Sigma-Aldrich Canada, Ltd Company

Address 2149 Winston Park Drive Oakville ON L6H 6J8 CA

Technical Phone: 9058299500 9058299292 Fax: 800-424-9300 Emergency Phone:

Substance Name LACTO-N-NEO-TETRAOSE 13007-32-4

Section 2 - Composition/Information on Ingredient

C26H45NO21 Formula

Section 3 - Hazards Identification

HMIS RATING

REACTIVITY: 0 NFPA RATING HEALTH: 0 FLAMMABILITY: 0 REACTIVITY: 0

FLAMMABILITY: 0

HEALTH: 0

ORAL EXPOSURE If swallowed, wash out mouth with water provided person is

For additional information on toxicity, please refer to Section 11.

conscious. Call a physician. INHALATION EXPOSURE

Section 4 - First Aid Measures

If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

DERMAL EXPOSURE

amounts of water.

EYE EXPOSURE In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by

In case of contact, immediately wash skin with soap and copious

FLASH POINT N/A

N/A

Section 5 - Fire Fighting Measures

separating the eyelids with fingers. Call a physician.

FLAMMABILITY

EXTINGUISHING MEDIA Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

FIREFIGHTING

AUTOIGNITION TEMP

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Specific Hazard(s): Emits toxic fumes under fire conditions.

METHODS FOR CLEANING UP

Store at 2-8°C

Property

BP/BP Range

MP/MP Range

Freezing Point

Vapor Pressure Vapor Density

Bulk Density

Volatile%

Viscosity

VOC Content Water Content

Odor Threshold

Solvent Content Evaporation Rate

Surface Tension

Saturated Vapor Conc. N/A

Partition Coefficient N/A

Molecular Weight

PROCEDURE(S) OF PERSONAL PRECAUTION(S) Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust.

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Section 6 - Accidental Release Measures

Section 7 - Handling and Storage HANDLING User Exposure: Avoid inhalation. Avoid contact with eyes, skin,

and clothing. Avoid prolonged or repeated exposure.

Section 8 - Exposure Controls / PPE ENGINEERING CONTROLS

PERSONAL PROTECTIVE EQUIPMENT

Suitable: Keep tightly closed.

under appropriate government standards such as NIOSH (US) or CEN (EU). Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or

Wash thoroughly after handling.

type Pl (EN 143) dust masks. Hand: Protective gloves.

Eye: Chemical safety goggles. GENERAL HYGIENE MEASURES

Value

N/A

N/A

N/A

N/A N/A

N/A

N/A

N/A N/A

N/A

N/A

707.636 AMU

Safety shower and eye bath. Mechanical exhaust required.

Respiratory: Use respirators and components tested and approved

Section 9 - Physical/Chemical Properties Physical State: Solid Appearance SIGMA - L6543 Page 2 www.sigma-aldrich.com

At Temperature or Pressure

N/A Decomposition Temp. Flash Point N/A Explosion Limits N/A Flammability Autoignition Temp Refractive Index N/A Optical Rotation N/A Miscellaneous Data N/A Solubility N/A N/A = not available Section 10 - Stability and Reactivity STABILITY Stable: Stable. Materials to Avoid: Strong oxidizing agents. HAZARDOUS DECOMPOSITION PRODUCTS Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, and nitrogen oxides. HAZARDOUS POLYMERIZATION Hazardous Polymerization: Will not occur Section 11 - Toxicological Information ROUTE OF EXPOSURE Skin Contact: May cause skin irritation. Skin Absorption: May be harmful if absorbed through the skin. Eye Contact: May cause eye irritation. Inhalation: Material may be irritating to mucous membranes and

No data available.

Ingestion: May be harmful if swallowed.

SIGNS AND SYMPTOMS OF EXPOSURE

SIGMA - L6543

transport.

DSL: No NDSL: No

SARA LISTED: No

Section 12 - Ecological Information

Section 13 - Disposal Considerations

environmental regulations.

Section 14 - Transport Information

upper respiratory tract. May be harmful if inhaled.

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION

To the best of our knowledge, the chemical, physical, and

toxicological properties have not been thoroughly investigated.

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DOT Proper Shipping Name: None Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

Non-Hazardous for Air Transport: Non-hazardous for air

solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible

CANADA REGULATORY INFORMATION WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

Section 16 - Other Information

Section 15 - Regulatory Information

UNITED STATES REGULATORY INFORMATION

For R&D use only. Not for drug, household or other uses. WARRANTY

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2009 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.