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SIGMA-ALDRICH
                     MATERIAL SAFETY DATA SHEET
                                               Date Printed: 05/05/2009
                                               Date Updated: 01/31/2006
                                                          Version 1.4
Section 1 - Product and Company Information
Product Name
                             LACTO-N-DIFUCOHEXAOSE II FROM HUMAN MILK
Product Number
                             L6645
Brand
                             SIGMA
                             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:
Section 2 - Composition/Information on Ingredient
Substance Name
                                                               SARA 313
LACTO-N-DIFUCOHEXAOSE II FROM
                                        62258-12-2
HUMAN MILK
               C38H65NO29
Formula
Chemical Family Human source material.
Section 3 - Hazards Identification
EMERGENCY OVERVIEW
   Biohazard.
   Handle as if capable of transmitting infectious agents.
HMIS RATING
  HEALTH: 0
   FLAMMABILITY: 0
   REACTIVITY: 0
   SPECIAL HAZARD(S): Human Source
NFPA RATING
   HEALTH: 0
   FLAMMABILITY: 0
   REACTIVITY: 0
   SPECIAL HAZARD(S): Human Source
For additional information on toxicity, please refer to Section 11.
Section 4 - First Aid Measures
ORAL EXPOSURE
   If swallowed, wash out mouth with water provided person is
   conscious. Call a physician immediately.
INHALATION EXPOSURE
   If inhaled, remove to fresh air. If not breathing give
   artificial respiration. If breathing is difficult, give oxygen.
DERMAL EXPOSURE
   In case of skin contact, flush with copious amounts of water for
   at least 15 minutes. Remove contaminated clothing and shoes.
   Call a physician.
EYE EXPOSURE
   In case of contact with eyes, flush with copious amounts of
   water for at least 15 minutes. Assure adequate flushing by
   separating the eyelids with fingers. Call a physician.
Section 5 - Fire Fighting Measures
FLASH POINT
  N/A
AUTOIGNITION TEMP
   N/A
FLAMMABILITY
   N/A
EXTINGUISHING MEDIA
   Suitable: Use extinguishing media appropriate to surrounding
   fire conditions.
FIREFIGHTING
   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.
Section 6 - Accidental Release Measures
PROCEDURE(S) OF PERSONAL PRECAUTION(S)
   Wear self-contained breathing apparatus, rubber boots, and heavy
   rubber gloves.
METHODS FOR CLEANING UP
   Sweep up, place in a bag and hold for waste disposal. Avoid
   raising dust. Wash spill site with 10% bleach and ventilate area
   after material pickup is complete.
Section 7 - Handling and Storage
HANDLING
   User Exposure: Avoid inhalation. Avoid contact with eyes, skin,
   and clothing. Avoid prolonged or repeated exposure.
   Suitable: Keep tightly closed.
   Store at 2-8°C
Section 8 - Exposure Controls / PPE
ENGINEERING CONTROLS
   Safety shower and eye bath. Mechanical exhaust required.
PERSONAL PROTECTIVE EQUIPMENT
   Respiratory: Use respirators and components tested and approved
   under appropriate government standards such as NIOSH (US) or CEN
   (EU). Where risk assessment shows air-purifying respirators are
   appropriate use a dust mask type N95 (US) or type P1 (EN 143)
   respirator.
   Hand: Compatible chemical-resistant gloves.
SIGMA - L6645
                               www.sigma-aldrich.com
                                                              Page 2
   Eye: Chemical safety goggles.
GENERAL HYGIENE MEASURES
   Wash thoroughly after handling.
Section 9 - Physical/Chemical Properties
                        Physical State: Solid
Appearance
Property
                        Value
                                            At Temperature or Pressure
Molecular Weight
                       999.9 AMU
                        N/A
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Solvent Content N/A
Evaporation Rate N/A
Viscosity N/A
Surface Tension N/A

N/A

N/A N/A

N/A

N/A N/A N/A

N/A

N/A

N/A

BP/BP Range

MP/MP Range

VOC Content

Flash Point

Explosion Limits

Water Content

Freezing Point Vapor Pressure Vapor Density

Saturated Vapor Conc.

Odor Threshold Volatiles

Partition Coefficient N/A Decomposition Temp. N/A

Flammability N/A Autoignition Temp N/A 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, 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 upper respiratory tract. May be harmful if inhaled. SIGMA - L6645 www.sigma-aldrich.com Page 3

Indication of Danger: Biohazard.

US CLASSIFICATION AND LABEL TEXT
Indication of Danger: Biohazard.

Ingestion: May be harmful if swallowed.

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION

Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

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

US Statements: Handle as if capable of transmitting infectious

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.

Contact a licensed professional waste disposal service to dispose of this material. Disposal should be made in accordance with existing disposal practices employed for infectious waste at your institution. Observe all federal, state, and local environmental

Potentially biohazardous material.

Section 12 - Ecological Information

Section 13 - Disposal Considerations

Section 14 - Transport Information

Section 15 - Regulatory Information

UNITED STATES REGULATORY INFORMATION

CANADA REGULATORY INFORMATION

Section 16 - Other Information

paper copies for internal use only.

EU ADDITIONAL CLASSIFICATION Symbol of Danger: B

Proper Shipping Name: None

SIGNS AND SYMPTOMS OF EXPOSURE

No data available.

regulations.

transport.

agents.

DSL: No NDSL: No

SIGMA - L6645

SARA LISTED: No

IATA

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.,

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Page 4

Page 5