Hokkaido System Science Co., Ltd.

MATERIAL SAFETY DATA SHEET

February, 2008

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URL: http://www.hssnet.co.jp

SECTION 1 - PRODUCT

PRODUCT NAME: LipoTrust™ EX Oligo - in vitro

SECTION 2 - COMPOSITION/ INFORMATION ON INGREDIENT

CHEMICAL: Cationic Lipid Vesicles mixed with saccharose Cas No. None

SECTION 3 - HAZARDOUS IDENTIFICATION

Emergency Overview

Caution: Avoid contact and inhalation.

SECTION 4 - FIRST AID MEASURES

ORAL EXPOSURE: If swallowed, wash out mouth with plenty of water. Call a physician.

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 contact, immediately wash skin with soap and plenty of water.

EYE EXPOSURE: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.

SECTION 5 - FIRE FIGHTING MEASURES

Extinguishing Media: Suitable: Water spray. Carbon Dioxide, dry chemical powder or appropriate foam. **Special Firefighting Procedures:** Wear self contained breathing apparatus and protective clothing

to prevent contact with skin and eyes.

Flash Point: N/A

Autoignition Temp: N/A

Specific Hazard (s): Emits toxic fumes under fire conditions.

Flammability: N/A

SECTION 6 - ACCIDENTAL RELEASE MEASURES

PROCEDURE(S) OF PERSONAL PRECAUTION(S):

Wear self-contained breathing apparatus, chemical safety goggles, rubber boots, and heavy rubber gloves. Wear disposable coveralls and discard them after use.

METHODS FOR CLEANING UP:

Absorb on sand or vericulite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

SECTION 7 - HANDLING AND STORAGE

Caution: Avoid contact and inhalation.

User Exposure: Avoid inhalation. Avoid contact with eyes, skin, clothing and use adequate ventilation.

Avoid prolonged or repeated exposure.

Storage: Keep container tightly closed. Store in a cool dry place. Store below 0 C.

SECTION 8 - EXPOSURE CONTROLS / PPE

Avoid Breathing Vapor

Engineering Controls: Safety shower and eye bath. Mechanical exhaust required.

Personal Protective Equipment:

Respiratory: NIOSH/MSHA-approved respirator. Eye: Compatible safety goggles.

Hand: Compatible chemical-resistant gloves.

General Hygiene Measures: Wash thoroughly after handling. Wash contaminated clothing before use.

Keep tightly closed. Store in a dry place.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Physical State: solid or powder

Flash Point: N/A Vapor density: N/A Explosion Limits: N/A Autoignition Temp: N/A Solubility: N/A Flammability: N/A

N/A: not available

SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable

Materials to Avoid: Strong oxidizing agents **Hazardous Polymerization:** Will not occur!

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Nitrogen oxides

SECTION 11 - TOXICOLOGICAL INFORMATION

Route of Exposure:

Skin Contact: May cause skin irritation **Eye Contact:** May cause eye irritation

Inhalation: Material is irritating to mucus membranes and upper respiratory tract.

Multiple Routes: May be harmful by inhalation, ingestion or skin absorption

Signs and Symptoms of Exposure:

To the best of our knowledge, the properties have not yet been thoroughly investigated.

SECTION 12 - ECOLOGICAL INFORMATION

Data not yet available

SECTION 13 - DISPOSAL CONSIDERATIONS

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is flammable.

Observe all federal state and local environmental regulations.

Contact a licensed professional waste disposal service to dispose of this material.

SECTION 14 - TRANSPORT INFORMATION

DOT Proper Shipping Name: None **IATA** Non-hazardous for air transport.

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

SECTION 15 - REGULATORY INFORMATION

United States Regulatory Information: Sara Listed: No

US Classification and Label Text: US Statements: Caution: Avoid contact and inhalation.

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

DSL: No NDSL: No

SECTION 16 - OTHER INFORMATION

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

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide.

Hokkaido System Science Co., Ltd. (HSS) shall not be held liable for any damage resulting from handling or from contact with the above product.