

**MATERIAL SAFETY DATA SHEET**

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SECTION 1 - PRODUCT**PRODUCT NAME:** LipoTrust™ EX Oligo - *in vivo***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.