MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT

PRODUCT NAME: LipoTrust™ PE

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:
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

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.