

**MATERIAL SAFETY DATA SHEET**

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**SECTION 1 - PRODUCT**

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**PRODUCT NAME: LipoTrust™ SR**

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**SECTION 2 - COMPOSITION/ INFORMATION ON INGREDIENT**

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<b>CHEMICAL:</b> Cationic Lipid Vesicles mixed with saccharose	<b>Cas No.</b>	None
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**SECTION 3 - HAZARDOUS IDENTIFICATION**

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**Emergency Overview****Caution: Avoid contact and inhalation.**

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**SECTION 4 - FIRST AID MEASURES**

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**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.

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**SECTION 5 - FIRE FIGHTING MEASURES**

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**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

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**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

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**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.

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**SECTION 7 - HANDLING AND STORAGE**


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**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.

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**SECTION 8 - EXPOSURE CONTROLS /PPE**


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**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.

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**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**


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**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

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**SECTION 10 - STABILITY AND REACTIVITY**


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**Stability:** Stable

**Materials to Avoid:** Strong oxidizing agents

**Hazardous Polymerization:** Will not occur!

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

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**SECTION 11 - TOXICOLOGICAL INFORMATION**


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**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.

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**SECTION 12 - ECOLOGICAL INFORMATION**


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Data not yet available

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**SECTION 13 - DISPOSAL CONSIDERATIONS**


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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.

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**SECTION 14 - TRANSPORT INFORMATION**

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**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.

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**SECTION 15 - REGULATORY INFORMATION**

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**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

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**SECTION 16 - OTHER INFORMATION**

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**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.