

## Section 1 - Chemical Product and Company Identification

**Product Name**        Samarium (III) Nitrate Hexahydrate ultrapure, 99.95%  
**CAS No**                13759-83-6  
**Use for**                Laboratory Chemicals.  
**Company Name**        Heeger Materials Inc.  
**Address**                230 Steele St Denver  
                                 CO 80206  
                                 United States

## Section 2 - Composition/Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
13759-83-6	Samarium (III) nitrate	99.95	233-798-6

No components need to be disclosed according to the applicable regulations.

## Section 3 - Hazards Identification

### Risk advice to man and the environment

Toxic if swallowed. Very toxic in contact with skin. Irritating to eyes, respiratory system and skin.

## Section 4 - First Aid Measures

**Eyes:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**Skin:** Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

**Ingestion:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**Inhalation:** If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

**General advice:** Consult a physician. Show this safety data sheet to the doctor in attendance.

**Notes to Physician:**

## Section 5 - Fire Fighting Measures

### Extinguishing Media

**Suitable:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### Special Protective

**Equipment For Firefighters:**Wear self contained breathing apparatus for fire fighting if necessary.

## Section 6 - Accidental Release Measures

**Personal precautions:** Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Evacuate personnel to safe areas.

**Environmental precautions:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**Methods for cleaning up:** Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

## Section 7 - Handling and Storage

**Handling:** Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

**Storage:** Room temperature. Keep container tightly closed in a dry and well-ventilated place.

## Section 8 - Exposure Control / Personal Protection

### Personal Protective Equipment

**Respiratory Protection:** Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand Protection:** The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Handle with gloves.

**Eye Protection:** Safety glasses

**Skin and body protection:** Choose body protection according to the amount and concentration of the dangerous substance at the work place.

**Hygiene measures:** Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

## Section 9 - Physical and Chemical Properties

Physical State: Powder

Molecular Formula:  $\text{Sm}(\text{NO}_3)_3 \cdot 6\text{H}_2\text{O}$

Molecular Weight: 444.47

## Section 10 - Stability and Reactivity

**Storage stability:** Stable under recommended storage conditions.

**Materials to avoid:** Strong oxidizing agents

### Hazardous decomposition

#### Products formed under fire

**conditions.** - Nitrogen oxides (NO<sub>x</sub>), Samarium Oxides.

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**Product Code** 92082

## Section 11 - Toxicological Information

**Acute toxicity:** LD50 Oral - Rat - 2.160 mg/kg  
**Irritation and corrosion:** No data available  
**Sensitisation:** No data available  
**Chronic exposure:** IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

## Signs And Symptoms

**Of Exposure:** No data available

## Route Of Exposure

**Inhalation:** No data available

**Skin :** No data available

**Eyes:** No data available

**Ingestion:** No data available

## Section 12 - Ecological Information

No data available.

## Section 13 - Disposal Considerations

**Product:** Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Contaminated packaging:** Dispose of as unused product.

## Section 14 - Transport Information

	<b>IATA</b>	<b>IMO</b>	<b>RID/ADR</b>
<b>Shipping Name:</b>		Samarium (III) nitrate	
<b>Hazard Class:</b>	5.1	5.1	5.1
<b>UN Number:</b>	1477	1477	1477
<b>Packing Group:</b>	II	II	II

## Section 15 - Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

## Section 16 - Other Information

Heeger Materials Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.