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## MATERIAL SAFETY DATA SHEET

### Section 1- PRODUCT IDENTIFICATION

COMPOSITION <b>Sm2O3</b>	PRODUCT NAME <b>Samarium Oxide</b>
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### Section 2- HAZARDOUS INGREDIENTS

Note: Products under normal conditions do not represent an inhalation, ingestion or contact health hazard.

MATERIAL OR COMPONENT	CAS NUMBER	WT%	EXPOSURE LIMITS	
			OSHA PEL (Mg/M3)	ACGIH TLV(MG/M3)
<b>Samarium Oxide</b>	<b>12060-58-1</b>	<b>100%</b>	<b>Not Set</b>	<b>Not Set</b>

### Section 3- PHYSICAL DATA

MATERIAL IS (AT NORMAL CONDITIONS) <input type="checkbox"/> Liquid <input type="checkbox"/> Solid <input type="checkbox"/> Gas <input type="checkbox"/> Other	APPEARANCE AND ODOR <b>White powder/pieces. Odorless</b>
MELTING POINT (BASE METAL) <b>N/A</b>	SPECIFIC GRAVITY

### Section 4- FIRE AND EXPLOSION

Flash Point (Method Used) <b>N/A</b>	Flammable Limits <b>Non-Flammable</b>	LEL <b>N.A.</b>	UEL <b>N.A.</b>
EXTINGUISHING MEDIA <b>Use dry chemical, CO2</b>			
SPECIAL FIRED FIGHTING PROCEDURES <b>Wear self contained breathing apparatus and full protective clothing to prevent contact with skin and eyes.</b>			
UNUSUAL FIRE AND EXPLOSION HAZARDS <b>May emit toxic fumes if involved in a fire!</b>			

### Section 5- REACTIVITY DATA

STABILITY <b>Stable</b>	INCOMPATABILITY (MATERIALS TO AVOID) <b>Strong acids and bases</b>
CONDITIONS TO AVOID <b>Heat and incompatible materials</b>	
HAZARDOUS DECOMPOSITION PRODUCTS <b>Sm</b>	

## Section 6- HEALTH HAZARD GUIDE

MAJOR EXPOSURE HAZARD

Inhalation  Skin  Skin Absorption  Eye Contact  Ingestion

EFFECTS OF OVEREXPOSURE

**INHALATION:** A respiratory irritant. Coughing, sneezing, difficulty breathing and pulmonary edema are possible. May irritate mucous membrane of the nose and throat.

**DERMAL:** Irritation, inflammation and redness possible. May cause dermatitis.

**EYE CONTACT:** Irritation, inflammation, watering and redness are possible.

EMERGENCY & FIRST AID PROCEDURES

**INHALATION:** Remove from exposed area to fresh air; give oxygen if breathing is difficult.

**INGESTION:** Give 1-2 glasses of milk or water and induce vomiting.

**SKIN CONTACT:** Brush material off skin.

**EYE CONTACT:** Flush eyes with lukewarm water lifting up the upper and lower lids for at least fifteen minutes.

## Section 7- SPILL OR LEAK PROCEDURES

SPILL OR LEAK PROCEDURES

**Wear self contained breathing apparatus and full protective clothing. Isolate area where spill occurred and insure proper ventilation is available. Vacuum up the spill using a high efficiency unit and place in container for proper disposal. Don't raise dust.**

WASTE DISPOSAL METHODS

**Dispose in accordance to federal, state and local regulations.**

## Section 8- SPECIAL PROTECTION

RESPIRATORY

**NIOSH approved dust-mist-fume respirator/**

VENTILATION

**Local Exhaust: Maintain exposure at TLV. Mechanical recommended. Special handle in a controlled atmosphere.**

EYE PROTECTION & PROTECTIVE CLOTHING

**Wear Safety glasses for eyes. Wear neoprene gloves on hands. Protective gear to avoid skin and clothing contamination.**

## Section 9- SPECIAL PRECAUTIONS

**WORK/HYGIENIC/MAINTENANCE PRACTICES:**

**Store in a cool dry area. Keep containers closed. Do not use tobacco or food in work area. Wash thoroughly before eating or smoking.**

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