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MATERIAL SAFETY DATA SHEET

Section 1- PRODUCT IDENTIFICATION

COMPOSITION Sm2O3	PRODUCT NAME Samarium Oxide
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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)
Samarium Oxide	12060-58-1	100%	Not Set	Not Set

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 White powder/pieces. Odorless
MELTING POINT (BASE METAL) N/A	SPECIFIC GRAVITY

Section 4- FIRE AND EXPLOSION

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

Section 5- REACTIVITY DATA

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

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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