

Material Safety Data Sheet

Identity: Scandium Oxide
Chemical Family: Metal Oxide

Formula: Sc₂O₃

SECTION I - GENERAL INFORMATION

Manufacturer: [Stanford Advanced Materials](#) (SAM)

The information below is believed to be accurate and represents the best information available to SAM. However, SAM makes no warranty, expressed or implied with respect to such information and we assume no liability resulting from its use.

SECTION II - PRODUCT INFORMATION/HAZARDOUS INGREDIENTS

CAS #	%	OSHA/PEL	ACGIH/TLV	OTHER LIMITS
12060-08-1	100	N/E	N/E	N/E

SECTION III - PHYSICAL/ CHEMICAL CHARACTERISTICS

Boiling Point: NE	Specific Gravity (Water =1) 3.86 gm/cc
Melting Point: NA	Vapor Pressure: NA Physical
Status: Solid	Vapor Density: NA Solubility
in water: insoluble	Percent Volatile: NE
Appearance and Odor: White powder, no odor.	

SECTION IV - FIRE AND EXPLOSION DATA

Flash Point: NA Method Used: Non-flammable

Explosive Limits: LEL: NA UEL: NA

Extinguishing Media: Use suitable extinguishing media for surrounding materials and type of fire.

SECTION V - REACTIVITY DATA

Stability: Stable

Conditions to Avoid - Instability: None

Hazardous Decomposition or byproducts: None.

SECTION VI - HEALTH HAZARD DATA

Routes of Exposure:

Inhalation: Acute: May cause irritation. Chronic: May cause congestion, coughing, granuloma in lungs and hemoglobinemia.

Emergency Procedures: Remove victim to fresh air, keep warm and quiet, give oxygen if breathing is difficult.

Ingestion: Acute: Experiments indicate that it is unabsorbed when ingested.

Chronic: No chronic health effects recorded.

Emergency: Give 1 – 2 glasses of milk or water, induce vomiting. Seek Medical attention. Never induce vomiting to an unconscious person. Skin:

Acute: May cause irritation. Chronic: No chronic health effected recorded.

Emergency: Remove contaminated clothing, brush material off skin, wash area soap and water, seek medical attention.

Eyes: Acute: May cause irritation. Chronic: No chronic health effected recorded.

Emergency: Flush eyes with lukewarm water for at least 15 minutes. Seek medical attention.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE.

Steps To Be Taken In Case Material Is Released or Spilled:

Wear appropriate respiratory and protective equipment specified in Section VIII-control measures. Isolate spill area and provide ventilation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for proper disposal. Take care not to raise dust.

Waste Disposal Method: Dispose of in accordance with local, state and federal regulations.

Hazard Label Information:

Store in cool, dry area - Store in tightly sealed container. Wash thoroughly after handling

Precautions To Be Taken In Handling and Storing: None

SECTION VIII - CONTROL MEASURES

Protective Equipment Summary - Hazard Label Information NIOSH

approved respirator Impervious gloves Safety glasses

Clothes to prevent skin contact

Respiratory Protection (Specify Type): Ventilation:

Local Exhaust: Local exhaust ventilation may be necessary to control any air contaminants to within their PEL or TLVs during the use of this product. Special: None

Mechanical (GEN): Good general ventilation is recommended.

Other Protective Clothing or Equipment: Protective gear suitable to prevent contamination

Work/Hygienic/Maintenance Practices: Implement engineering and work practice controls to reduce and maintain concentration of exposure at low levels. Use good housekeeping and sanitation practices. Do not use tobacco or food in work area. Wash thoroughly before eating and smoking. Do not blow dust off clothing or skin with compressed air.