

Material Safety Data Sheet

Identity: Ytterbium Oxide

Formula: Yb₂O₃

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
1314-37-0	100	N/A	N/A	N/A

SECTION III - PHYSICAL DATA

Boiling Point: N/D Specific Gravity: 9.17
Melting Point: N/D Vapor Density: NA
Physical States: Solid Solubility in Water: Insoluble
Evaporation Rate: NA
Appearance and Odor: White powder, no odor.

SECTION IV - FIRE AND EXPLOSION DATA

Flashpoint: N/A

Extinguishing Media: Use dry chemicals, dry sand, dry ground dolomite, class D extinguisher. Firefighters must wear full face breathing apparatus and clothes to prevent skin contact. Fumes from fire are hazardous. DO NOT USE WATER.

SECTION V - HEALTH HAZARD DATA

Routes of Exposure:

Inhalation: May cause irritation.

Ingestion: May cause irritation.

Skin: May cause irritation.

Eyes: May cause irritation.

Emergency Procedures:

Ingestion: Induce vomiting.

Skin: Remove contaminated clothing, flood skin with large amounts of water.

Eye: Immediately flush eyes with water for 15 minutes.

Inhalation: No data.

SECTION VI – REACTIVITY DATA

Stability: Stable

Conditions to Avoid: Heat, flame, and incompatible materials.

Incompatibility: Strong acids, and strong bases, ammonia, water, carbon dioxide.

Hazardous Polymerization: Will not occur

Hazardous Decomposition Products: Yb

SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE

Spill and Leakage Procedures: Wear protective equipment. Cover spill with dry sand or vermiculite. Mix well and carefully transfer to a container.

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

Hazard Label Information: Keep container tightly closed. Store in cool, well-ventilated area.

Wash thoroughly after use.

SECTION VIII – PROTECTIVE EQUIPMENT

Respiratory Protection: NIOSH approved respiratory.

Protective Equipment: Gloves, safety glasses, clothes.

Ventilation: Mechanical local exhaust.

Work/Hygienic/Maintenance Practices: Impose good hygienic practices to keep exposure at low levels. Do not use food or tobacco in work area.