

YTTRIUM OXIDE: EUROPIUM ACTIVATED M0042

Manufacturer: OSRAM Sylvania Inc.
Precision Materials and Components
Towanda, PA 18848
Telephone: 570-268-5000

Emergency Phone Numbers:
570-268-5000 24/7
CHEMTREC 800-424-9300

1. Chemical Product and Company Identification

Product Name: Yttrium Oxide:Europium Activated

Trade Name: Phosphor Types 1130, 1131, 1132, 1133, 1134, 1135,
1136, 1137, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348

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2. Composition/Information on Ingredients

Material Name	Percent By Weight	Exposure Limit (TWA)	
		OSHA PEL	ACGIH TLV
Yttrium Oxide: Europium (Limits are for Yttrium and compounds as, Y)	100%	1 mg/m3	1 mg/m3

CAS number: 68585-82-0

3. Hazard Identification

Appearance/Odor: White or Red Powder (Dependent on customer request)/Odorless

Routes of Exposure: This material can be inhaled, swallowed or come in contact with the skin or eyes.

Potential Health Effects:

Inhalation: Excessive airborne dust concentrations may cause irritation or discomfort. See Section 11 Toxicological Information

Eye Contact: Dust particles may cause eye irritation.

Skin Contact: Prolonged or repeated contact may cause skin irritation.

Ingestion: See Section 11 Toxicological Information

Carcinogenic Assessment (NTP, IARC, Others):

This material has not been identified as a known or suspected carcinogen.

4. First Aid Measures

Inhalation: If any symptoms of pulmonary involvement develop, remove from exposure and seek medical attention.

Skin Contact: If irritation occurs, thoroughly wash affected area with mild soap and water and prevent further contact. If irritation persists, seek medical attention.

Eye Contact: If irritation occurs, flush with copious amounts of water. If irritation persists, seek medical attention.

Ingestion: If substantial quantities are swallowed, induce vomiting (If the person is conscious!!) as directed by medical personnel.

5. Fire Fighting Measures

Flash Point: NA	Test Method Used: NA
Flammable Limits: NA	LEL: NA UEL: NA

General Hazard:
No Fire Hazard.

Fire Fighting Instructions:
Use extinguishing agents suitable for the surrounding fire.

For a large fire involving this material fire fighters should wear a self-contained breathing apparatus and full protective equipment (bunker gear).

6. Accidental Release Measures

Ventilate the area of the spill. Clean-up using methods, which avoid dust generation, such as vacuuming (Vacuum should be equipped with a filter which prevents re-suspension of dust), or wet clean up. If airborne dust is generated, an appropriate NIOSH approved respirator should be worn.

7. Handling and Storage

Handling: Avoid breathing dust and prolonged skin contact. Wash thoroughly after handling and before eating, smoking and at the end of the work shift. Do not shake clothing or other items to remove accumulation of dust. Use clean up, methods, which minimize dust generation, such as vacuuming or wet clean up. If airborne dust is generated to levels at or above the PEL or TLV,

use an appropriate NIOSH approved respirator.

Storage: Keep containers tightly closed when not in use. Label all containers. Store away from incompatible materials.

8. Exposure Controls/Personal Protection

Engineering Control

Use local exhaust ventilation, which is adequate to limit personal exposure to levels, which do not exceed the TLV or PEL. If such equipment is not available, use respirators as specified below.

Respiratory Protection

A NIOSH approved respirator should be worn when airborne dust levels exceed the TLV or PEL. The respirator chosen should have a protection factor appropriate for the level of exposure. Under normal circumstances, an air-purifying respirator with dust/fume cartridges should be adequate. Under extreme exposure conditions where concentrations may be above the protection factor of an APR, use a positive pressure, air supplied respirator. Appropriate standards for use of respiratory protection such as 29 CFR 1910.134 should be consulted.

Skin Protection:

Protective clothing and gloves are recommended if prolonged or repeated contact is likely.

Eye Protection:

Safety glasses or goggles are recommended.

9. Physical and Chemical Properties

Appearance: White or Red Powder Odor: None

Boiling Point: NA Specific Gravity: 3.1

Vapor Pressure: NA Percent Volatile by
Volume: 0

Vapor Density: NA Evaporation Rate: NA

Solubility in Water: Insoluble

10. Stability and Reactivity

Conditions to avoid/Incompatibility:

None Known

Hazardous Decomposition Products: None Known

Hazardous Polymerization: Will not occur

11. Toxicological Information

Animal Studies suggest that inhalation of yttrium oxide has the potential for causing lung injury.

12. Ecological Information

Not available at this time

13. Disposal Information

Dispose of in accordance with the appropriate Local, State and Federal laws and regulations

14. Transportation Information

Not regulated

15. Regulatory Information

This material is listed on the following National Inventories/Lists:

US EPA TSCA Chemical Substance Inventory

European Inventory of Existing Chemical Substances
215-233-5 (Yttrium Oxide)
215-165-6 (Europium Oxide)

Canadian DSL
Yttrium Oxide, Europium Oxide

CERCLA Reportable Quantity: None

SARA Title III (Superfund Amendments and Reauthorization Act):
Section 302 Extremely Hazardous Substances: None

Section 311/312 Hazard Category: Delayed Health Hazard

Section 313 Toxic Chemicals: None

16. Other Information

Revision Summary: Sections 1 through 16: 1/4/2006
Previous Date: 7/12/2004

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