

LTS Research Laboratories, Inc. Safety Data Sheet Lithium Yttrium Oxide

1. Product and Company Identification

Trade Name: Lithium Yttrium Oxide

Chemical Formula: LiYO₂

Recommended Use: Scientific research and development

Manufacturer/Supplier: LTS Research Laboratories, Inc.

Street: 37 Ramland Road
City: Orangeburg
State: New York
Zip Code: 10962
Country: USA

Tel #: 855-587-2436 / 855-lts-chem

Emergency Contact 800-424-9300 (US & Canada) (ChemTrec) Tel #: +1-703-527-3887 (International)

2. Hazards Identification

Signal Word: Danger



Hazard Statements: H314+H318 Causes severe skin and eye burns

Precautionary Statements: P260 Do not breathe dust/fume

P303+P361+P353 If on skin: Remove contaminated clothing. Rinse

with water.

P305+P351+P338 If in eyes: Rinse cautiously with water for several

minutes. Remove contact lenses, if present and easy to do.

P301+P330+P331 If swallowed: rinse mouth. Do not induce vomiting.

P401 Store locked up.

P501 Dispose of in accordance with local-international regulations.

HMIS Health Ratings (0-4):

Health: 3
Flammability: 0
Reactivity: 1

3. Composition

Chemical Family: Ceramic

Additional Names: Lithium yttria, Lithium oxide yttrium oxide

Lithium oxide (LiO₂):

Percentage: 0-100 wt% CAS #: 12057-24-8 EC #: 235-019-5

Yttrium oxide (Y_2O_3) :

Percentage: 0-100 wt% CAS #: 1314-36-9 EC #: 215-233-5 4. First Aid Procedures

General Treatment: Seek medical attention if symptoms persist.

Special Treatment: None Important Symptoms: None

Inhalation: Remove victim to fresh air. Supply oxygen if breathing is difficult.

Ingestion: Give one to two glasses of water. Do not induce vomiting. Skin: Wash affected area with mild soap and water. Remove any

contaminated clothing.

Eyes: Flush eyes with water, blinking often for ten minutes.

5. Fire and explosion hazards data

Flammability: Non-flammable

Flash Point: N/A
Autoignition Temperature: N/A

Extinguishing Media: Use suitable extinguishing agent for surrounding material and type of

fire.

Spec. Fire Fighting Procedure: Use full-face, self-contained breathing apparatus with full protective

clothing to prevent contact with skin and eyes.

6. Accidental release measures

If Material Is Released/Spilled: Wear appropriate respiratory and protective equipment specified in

special protection information. 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 disposal.

Take care not to raise dust.

Environmental Precautions: Isolate runoff to prevent environmental pollution.

7. Handling and storage

Handling Conditions: Wash thoroughly after handling.

Storage Conditions: Store in a cool dry place in a tightly sealed container.

Work/Hygienic Maintenance: 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.

Ventilation: Provide sufficient ventilation to maintain concentration at or below

TLV.

8. Exposure Controls / Personal Protection

Permissible Exposure Limits: 1 mg/m³ as Y (OSHA) Threshold Limit Value: 1 mg/m³ as Y (ACGIH)

Special Equipment: None

Respiratory Protection: Dust Respirator, NIOSH approved

Protective Gloves: Rubber gloves

Eye Protection: Safety glasses / goggles

Body Protection: Protective work clothing. Wear close-toed shoes and long

sleeves/pants.

9. Physical and Chemical Characteristics

Color White

Form: Powder, Granules, Pellets, Sputtering target, Custom parts

Odor: Odorless
Water Solubility: May form base

Boiling Point: N/A
Melting Point: >1427 °C
Density: 3.5 g/cc
Molecular weight: 127.845 g/mol

10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With: Oxidizing agents, Acids

Incompatible Conditions: Moisture, Air
Haz. Decomposition Products: Metal oxide fume

11. Toxicological Information

Potential Health Effects:

Eyes: Causes severe burns Skin: Causes severe burns

Ingestion: Strong corrosive effect on throat and danger of perforation of

pratorias, Inc.

esophagus

N/A

Inhalation: Burns respiratory tract

Chronic: N/A

Routes of Entry: Inhalation, skin, eyes, and ingestion.

Target Organs: N/A

Signs & Symptoms of Exposure:

Medical Conditions

Aggravated by Exposure: N/A

Median Lethal Dose: N/A

Carcinogen: No classification

12. Ecological Information

Ecological data is not available.

13. Disposal Considerations

Dispose of in accordance with local, state and federal regulations.

14. Transportation Data



Hazard Class: 8 Corrosive substances

Packing Group:

UN Number: UN3262

Proper Shipping Name: Corrosive solid, basic, inorganic, n.o.s.

No
N/A
No

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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