

# LTS Research Laboratories, Inc. Safety Data Sheet Yttrium Iron

# 1. Product and Company Identification

Trade Name: Yttrium iron Chemical Formula: Y/Fe

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

24-Hour Emergency Contact: 800-424-9300 (US & Canada)

+1-703-527-3887 (International)

#### 2. Hazards Identification

Signal Word: None Hazard Statements: None Precautionary Statements: None

HMIS Health Ratings (0-4):

Health:

Flammability: Physical:

Thoratories, Inc.

## 3. Composition

Chemical Family: Alloy Additional Names: None

Yttrium (Y):

Percentage: 0-100 wt% CAS #: 7440-65-5 EC #: 231-174-8

Iron (Fe):

Percentage: 0-100 wt% CAS #: 7439-89-6 EC #: 231-096-4

### 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: Seek Medical Attention.

Skin: Wash affected area with mild soap and water. Remove any

contaminated clothing.

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

contact lenses if present and easy to do. Continue rinsing

5. Firefighting Measures	
Flammability:	Non-flammable, except as powder
Extinguishing Media: Spec. Fire Fighting Procedure:	Do not use water for metal fires – use CO <sub>2</sub> , sand, extinguishing powder Use full-face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. See section 10 for decomposition products.
	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:	Handle under dry protective gas. Wash thoroughly after handling.
Storage Conditions: Work/Hygienic Maintenance:	Store in a cool dry place in a tightly sealed container. Store under dry inert gas. Store apart from materials and conditions listed in section 10. Do not use tobacco or food in work area. Wash thoroughly before eating and smoking. Do not blow dust off clothing or skin with
Ventilation:	compressed air.  Provide sufficient ventilation to maintain concentration at or below threshold limit.
8.	Exposure Controls and Personal Protection
Permissible Exposure Limits: Threshold Limit Value:	1 mg/m <sup>3</sup> as Y, long-term value 1 mg/m <sup>3</sup> as Y, long-term value
Special Equipment:	None
Respiratory Protection:	Use a respirator with type N95 (USA) or PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if purifying respirators are appropriate. Only use equipment tested and approved under appropriate government
Protective Gloves:	standards. Nitrile rubber, NBR 0.11mm thick
Eye Protection: Body Protection:	Safety glasses or goggles Protective work clothing. Wear close-toed shoes and long sleeves/pants.
	9. Physical and Chemical Characteristics
Color	Grey
Form:	Granules, Pellets, Sputtering target, Custom parts
Odor:	Odorless
Water Solubility: Boiling Point:	Insoluble N/A
Melting Point:	N/A N/A
	N/A N/A
Flash Point:	
Flash Point: Autoignition Temperature:	N/A
Flash Point: Autoignition Temperature: Density:	

10. Reactivity Stability: Stable under recommended storage conditions Reacts With: Acids, Halogens, Acid chlorides, Oxidizing agents **Incompatible Conditions:** Air, Water/moisture Hazardous Decomposition Products: Metal oxide fume, Iron oxides 11. Toxicological Information Potential Health Effects: May cause irritation Eyes: Skin: May cause irritation May cause irritation Ingestion: Inhalation: May cause irritation Chronic: N/A Signs & Symptoms: N/A Aggravated Medical Conditions: N/A Median Lethal Dose: 30000 mg/kg for rat by mouth N/A Carcinogen: 12. Ecological Information Aquatic Toxicity: Low Persistent Bioaccumulation Toxicity: No Very Persistent, Very Bioaccumulative: No Notes: N/A 13. Disposal Considerations Dispose of in accordance with local, state, national, and international regulations. 14. Transportation Data Hazardous: Not hazardous for transportation. **Hazard Class:** N/A Packing Group: N/A UN Number: N/A Proper Shipping Name: N/A 15. Regulatory Information Sec 302 Extremely Hazardous: No

N/A

No

Sec 304 Reportable Quantities:

Sec 313 Toxic Chemicals:

### 16. Other Information

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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