

LTS Research Laboratories, Inc. Safety Data Sheet Samarium Iodide

1. Product and Company Identification

Trade Name: Samarium iodide

Chemical Formula: SmI₂

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 / 845-lts-chem

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

+1-703-527-3887 (International)

2. Hazards Identification

Signal Word: Danger





Hazard Statements: H261 In contact with water releases flammable gas

H303 May be harmful if swallowed

H315 Causes skin irritation.

H319 Causes serious eye irritation. H335 May cause respiratory irritation

Precautionary Statements: P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

P301+P330 IF SWALLOWED: Rinse mouth

P405 Store locked up

P501 Dispose of contents/container in accordance with local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health: 3 Flammability: 1 Physical: 1

3. Composition

Chemical Family: Salt

Additional Names: Kagan's reagent, Samarium(II) iodide, Samarium diiodide

Samarium iodide(SmI₂):

Percentage: 100 wt% CAS #: 32248-43-4 EC #: N/A

A Ciest Aid Decordance		
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	
•	Reacts with water to produce flammable gas.	
Extinguishing Media:	No special restrictions – use suitable extinguishing agent for	
	surrounding material and type of fire. Do not use water for metal fires -	
	use CO ₂ , sand, extinguishing powder.	
Spec. Fire Fighting Procedure:	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:	Wash thoroughly after handling.	
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Store apart from	
XX 1.0X X	materials and conditions listed in section 10.	
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	
	threshold limit.	
8.	Exposure Controls and Personal Protection	
Permissible Exposure Limits:	N/A	
Threshold Limit Value:	N/A	
Special Equipment:	None	
Respiratory Protection:	Dust Respirator Not required	
Protective Gloves:	Rubber gloves Not required	
Eye Protection:	Safety glasses or goggles	
Body Protection:	Protective work clothing. Wear close-toed shoes and long sleeves/pants.	
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9. Physical and Chemical Characteristics	
	Also available in blue solution with THF
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts
Odor:	Odorless
Water Solubility:	Miscible, reacts, may produce flammable gas.
Boiling Point:	N/A
Melting Point:	520 °C
Flash Point:	N/A
Autoignition Temperature:	N/A
Density:	N/A
Molecular weight:	404.16 g/mol
	10. Reactivity
Stability:	Stable under recommended storage conditions
Reacts With:	Oxidizing agents, Bases, Oxygen, Water, Organic compounds
Incompatible Conditions:	Moisture, Air
Hazardous Decomposition Products:	Polymerization, Hydrogen iodide, Hydrogen gas, Carbon oxides, Meta
	oxide fume
	11. Toxicological Information
Potential Health Effects:	
Eyes:	May cause serious irritation
Skin:	May cause irritation
Ingestion:	May be harmful
Inhalation:	May cause irritation
Chronic:	N/A horstories, Inc.
Signs & Symptoms:	N/A
Aggravated Medical Conditions:	N/A
Median Lethal Dose:	N/A
Carcinogen:	N/A
	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: Hazardous as powder.



Hazard Class: 4.3 Substances which, in contact with water, release flammable gas.

Packing Group: PGIII
UN Number: UN2813

Proper Shipping Name: Water-reactive solid, n.o.s. (Samarium iodide)

15. Regulatory Information

Sec 302 Extremely Hazardous: No Sec 304 Reportable Quantities: N/A Sec 313 Toxic Chemicals: No

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.

Research

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