

LTS Research Laboratories, Inc. Safety Data Sheet Iron (II) bromide

1. Product and Company Identification

Trade Name: Iron (II) bromide

Chemical Formula: FeBr₂

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: Danger



Hazard Statements: H302: Harmful if swallowed

H314: Causes severe skin burns and eye damage

H332: Harmful if inhaled

H335: May cause respiratory irritation

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

P264: Wash skin thoroughly after handling.

P271: Use only outdoors or in a well-ventilated area.

P280: Wear protective gloves/ eye protection/ face protection. P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest

in a position comfortable for breathing.

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

Continue rinsing.

P312: Call a POISON CENTER/doctor if you feel unwell.

P332+P313: If skin irritation occurs: Get medical advice/ attention. P337+P313: If eye irritation persists: Get medical advice/ attention. P362: Take off contaminated clothing and wash before reuse. P403+P233: Store in a well-ventilated place. Keep container tightly

closed.

P405: Store locked up.

P501: Dispose of contents/ container to an approved waste disposal

plant.

HMIS Health Ratings (0-4):

Health: 2 Flammability: 0 Physical: 1

	3. Composition
Chemical Family:	Ceramic
Additional Names:	Iron dibromide
Iron (II) bromide (FeBr ₂):	
Percentage:	100 wt%
CAS #:	7789-46-0
EC #:	232-168-8
	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.
	Keep patient warm. Seek immediate medical attention.
Ingestion:	Seek immediate medical attention.
Skin:	Immediately wash affected area with mild soap and water. Remove any contaminated clothing. Seek immediate medical attention.
Ever	Flush eyes with water, blinking often for several minutes. Remove
Eyes:	contact lenses if present and easy to do. Continue rinsing. Seek
	immediate medical attention.
	5. Firefighting Measures
Flammability:	Non-flammable
•	Research
Extinguishing Media:	No special restrictions—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. 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. Keep unprotected persons away. Isolate
	spill area and provide ventilation. Vacuum up spill using a high
	efficiency particulate absolute (HEPA) air filter and place in a closed
Environmental Precautions:	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. Avoid contact with the eyes and skin.
Stange Conditions:	Wash thoroughly after handling.
Storage Conditions:	Store in a cool dry place in a tightly sealed container, store under dry inert gas. Store in the dark. Store away from water/moisture, oxidizing
	agents. This product is hygroscopic. Protect from humidity and water,
	exposure to light. Store apart from materials and conditions listed in
	section 10.
Work/Hygienic Maintenance:	Do not use tobacco or food in work area. Wash thoroughly before
one il giome maintenance.	
	eating and smoking. Do not blow dust on clouding of skin with
	eating and smoking. Do not blow dust off clothing or skin with compressed air.
Ventilation:	

8. Exposure Controls and Personal Protection

Permissible Exposure Limits: N/A
Threshold Limit Value: N/A

Special Equipment: Properly operating chemical fume hood designed for hazardous

chemicals and having an average face velocity of at least 100 feet per

minute.

Respiratory Protection:
Protective Gloves:

Rubber gloves

Eye Protection: Safety glasses or goggles

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

sleeves/pants.

9. Physical and Chemical Characteristics

Color Brown

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

Odor: **Odorless** Water Solubility: Soluble **Boiling Point:** 934 °C **Melting Point:** 684 °C Flash Point: N/A Autoignition Temperature: N/A Density: 4.63 g/cc Molecular weight: 215.65 g/mol

10. Reactivity

Stability: Stable under recommended storage conditions
Reacts With: Oxidizing agents, potassium, sodium/sodium oxides

Incompatible Conditions: Water/moisture, light

Hazardous Decomposition Products: Metal oxide fume, hydrogen bromide gas, iron oxides

11. Toxicological Information

Potential Health Effects:

Eyes: Causes serious eye damage
Skin: Causes severe skin burns
Ingestion: Harmful if swallowed
Inhalation: Harmful if inhaled

Chronic: Overdose of iron compounds may have a corrosive effect on the

gastrointestinal mucosa and be followed by necrosis, perforation, and stricture formation. Several hours may elapse before symptoms that can include epigastric pain, diarrhea, vomiting, nausea, and hematemesis occur. After apparent recovery a person may experience metabolic acidosis, convulsions, and coma hours or days later. Further complications may develop leading to acute liver necrosis that can

result in death due to hepatic coma.

Signs & Symptoms: N/A
Aggravated Medical Conditions: N/A

Median Lethal Dose: N/A

Carcinogen: IARC: No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed human

carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by

NIP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

	12. Ecological Information
Aquatic Toxicity:	N/A
Persistent Bioaccumulation Toxicity:	N/A
Very Persistent, Very Bioaccumulative:	N/A
Notes:	Do not allow undiluted product or large quantities to reach ground
	water, water course or sewage system.
	Avoid transfer into the environment.
	13. Disposal Considerations
Dispose of in accordance with local, state	e, national, and international regulations.
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Hazardous:	14. Transportation Data
Hazardous: Hazard Class:	14. Transportation Data Not hazardous for transportation.
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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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