

LTS Research Laboratories, Inc. Safety Data Sheet Copper Iron Alloy

1. Product and Company Identification

Trade Name: Copper Iron
Chemical Formula: CuFe

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: Warning



Hazard Statements: H228: Flammable solid

H319 Causes serious eye irritation H335: May cause respiratory irritation

Precautionary Statements: P261 Avoid breathing dust/fume/vapor

P210: Keep away from heat/sparks/open flames/hot surfaces - No

smoking

P280: Wear protective gloves/protective clothing/eye protection/face

protection

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

continue rinsing P405: Store locked up

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4): Powder Bulk Health: 1 0 Flammability: 2 0

Physical: 2 0
Physical: 1 0

3. Composition	
Chemical Family:	Alloy
Additional Names:	None
Iron (Fe):	
Percentage:	0-100 wt%
CAS #:	7439-89-6
EC #:	231-096-4
Copper (Cu):	
Percentage:	0-100 wt%
CAS #:	7440-50-8
EC #:	231-159-6
	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 and induce vomiting. Never induce
	vomiting or give anything by mouth to an unconscious person.
Skin:	Wash affected area with mild soap and water. Remove any
T	contaminated clothing.
Eyes:	Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing
	Bes sacch
	5. Firefighting Measures B. Do.
Flammability:	Flammable as powder only.
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Extinguishing Media:	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.
Envisormental December	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
Work/Hygienic Maintenance:	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 compressed air.
V	Provide sufficient ventilation to maintain concentration at or below
Ventilation:	FIOVIUE SUITICIENT VEHINALION TO MAINTAIN CONCERNATION AT OF DETOW

8. Exposure Controls and Personal Protection	
Permissible Exposure Limits:	0.1 mg/m3 as Cu, metal fume, long-term value
-	1 mg/m3 as Cu, metal dusts and mists, long-term value
Threshold Limit Value:	0.2 mg/m3 as Cu, metal fume, long-term value
	1 mg/m3 as Cu, metal dusts and mists, long-term value
Special Equipment:	None
Respiratory Protection:	Dust Respirator
Protective Gloves:	Rubber gloves
Eye Protection:	Safety glasses or goggles
Body Protection:	Protective work clothing. Wear close-toed shoes and long
200, 110000000	sleeves/pants.
<u> </u>	9. Physical and Chemical Characteristics
Color	N/A
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts
Odor:	Odorless
Water Solubility:	Insoluble
Boiling Point:	N/A
	N/A N/A
Melting Point:	
Flash Point:	N/A
Autoignition Temperature:	N/A
Density:	N/A
Molecular weight:	N/A
	10. Reactivity
Stability:	Stable under recommended storage conditions
Reacts With:	Acid, Oxidizing agents
Incompatible Conditions:	Protect against electrostatic charges
Hazardous Decomposition Products:	Metal oxide fume , Iron Oxide, Copper Oxides
	11. Toxicological Information
Potential Health Effects:	
Eyes:	Causes serious eye damage
Skin:	May cause irritation
Ingestion:	May cause irritation
Inhalation:	May cause irritation
Chronic:	The Registry of Toxic Effects of Chemical Substances (RTECS)
Cinonic.	contains multiple dose toxicity data for this substance. (as Iron)
Signs & Symptoms:	N/A
Aggravated Medical Conditions:	N/A
Median Lethal Dose:	>5000 mg/kg for rat by mouth as Copper
Consinacen	30000 mg/kg for rat by mouth as Iron The Periodan of Toxic Effects of Chemical Substances (PTECS)
Carcinogen:	The Registry of Toxic Effects of Chemical Substances (RTECS) contains tumorigenic and/or carcinogenic and/or neoplastic data for this
	substance.
	EPA-D: Not classifiable as to human carcinogenicity: inadequate human and animal evidence of carcinogenicity or no data are available. (Copper)
	12. Ecological Information

Medium

Aquatic Toxicity:

Persistent Bioaccumulation Toxicity: N/A
Very Persistent, Very Bioaccumulative: N/A

Notes: N/A May cause

May cause long lasting harmful effect on aquatic life.

Do not allow material to be released to the environment without proper

governmental permits.

Also poisonous for fish and plankton in water bodies.

Avoid transfer into the environment.

Toxic to aquatic life.

13. Disposal Considerations

Dispose of in accordance with local, state, national, and international regulations.

14. Transportation Data

Hazardous: Hazardous as powder only.



Hazard Class: 4.1 Flammable solids, self-reactive substances and solid desensitized

explosives

Packing Group:

UN Number: UN3089

Proper Shipping Name: Metal powders, flammable, n.o.s. (Iron Copper powder)

15. Regulatory Information

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

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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