

LTS Research Laboratories, Inc. Safety Data Sheet Copper Chromium

1. Product and Company Identification

Trade Name: Copper chromium

Chemical Formula: Cu-Cr

Recommended Use: Scientific research and development

Manufacturer/Supplier: LTS Research Laboratories, Inc.

> Street: 37 Ramland Road City: Orangeburg New York State: 10962 Zip Code: 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 H351: Suspected of causing cancer

P202: Do not handle until all safety precautions have been read and **Precautionary Statements:**

understood

P261 Avoid breathing dust/fume/vapor

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

continue rinsing

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

smoking

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

protection

P308+P313: IF exposed or concerned: Get medical advice/attention

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: 0 1 Flammability: 2 0 0

Physical: 1

| 3. Composition | |
|----------------------------------|---|
| Chemical Family: | Alloy |
| Additional Names: | Chromium copper |
| Copper (Cu): | |
| Percentage: | 0-100 wt% |
| CAS #: EC #: | 7440-50-8 231-159-6 |
| Chromium (Cr): | 251-139-0 |
| Percentage: | 0-100 wt% |
| CAS #: | 7440-47-3 |
| EC #: | 231-157-5 |
| | 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: | Seek medical attention |
| Skin: | Wash affected area with mild soap and water. Remove any |
| Eyes: | contaminated clothing. Flush eyes with water, blinking often for several minutes. Remove |
| | contact lenses if present and easy to do. Continue rinsing |
| | contact tolling in present and only to do! Contained this ing |
| | 5. Firefighting Measures |
| Flammability: | Flammable as powder only |
| 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. |
| Environmental Precautions: | Take care not to raise dust. Isolate runoff to prevent environmental pollution. |
| Environmental Freedutions. | isolate fulloff 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. |
| Ventilation: | Provide sufficient ventilation to maintain concentration at or below |
| | threshold limit. |

8. Exposure Controls and Personal Protection

Permissible Exposure Limits: 0.1 mg/m³ as Cu, Fume, long-term value Threshold Limit Value: 0.2 mg/m³ as Cu, Fume, long-term value

Special Equipment: None

Respiratory Protection:
Protective Gloves:

Dust Respirator
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 N/A

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

Odor: Odorless
Water Solubility: Insoluble
Boiling Point: N/A

Melting Point: 1083-1907 °C

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: Acids, Oxidizing agents

Incompatible Conditions: None

Hazardous Decomposition Products: Metal oxide fume, 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: N/A

Signs & Symptoms: N/A

Aggravated Medical Conditions: N/A

Median Lethal Dose: >5000 mg/kg for mouse by mouth

Carcinogen: Suspected of causing cancer

ACGIH A4: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of its carcinogenicity in humans

and/or animals.

(Inhalation) EPA-A: human carcinogen: sufficient evidence from epidemiologic studies to support a causal association between exposure

and cancer

(Inhalation)EPA-K: Known human carcinogens

IARC-3: Not classifiable as to carcinogenicity to humans

(Oral)EPA-D: Not classifiable as to human carcinogenicity: inadequate human and animal evidence of carcinogenicity or no data are available.

(Oral)EPA-CBD: Carcinogenic potential cannot be determined.

12. Ecological Information

Aquatic Toxicity: Mild
Persistent Bioaccumulation Toxicity: No
Very Persistent, Very Bioaccumulative: No

Notes:

No toxic for aquatic organism

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.

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, national, and international regulations.

14. Transportation Data

Hazardous: Hazardous as powder only.



Hazard Class:

4.1 Flammable solids, self-reactive substances and solid desensitized to

explosives.

Packing Group: UN Number:

III UN3089

Proper Shipping Name:

Metal powders, flammable, n.o.s. (Copper Chromium)

15. Regulatory Information

Sec 302 Extremely Hazardous:
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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