

SAFETY DATA SHEET

SECTION 1. Identification of the Substance and Manufacturer

Product: **Phosphorous-Copper Powder**

Company Name: Krohn Industries, Inc.
303 Veterans Boulevard
Carlstadt, NJ 07072
1 (201) 933-9696 (Phone)
1 (201) 933-9684 (Fax)

Emergency Contact Information: ChemTel 1 (800) 255-3924
Krohn Industries, Inc. 1 (201) 933-9696

SECTION 2. Hazard Identification

Classification System:

The classification is based on the criteria in the UN Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

GHS Label Elements Warning



May cause skin, eye and respiratory irritation

Prevention:

Avoid breathing dust

Use only in a well-ventilated area

Wash hands thoroughly after handling

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

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing

If eye irritation persists get medical advice/attention

Disposal:

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

SECTION 3. Composition/Information of Ingredients

Ingredient	%	EC Number	CAS No.
Copper	91 - 92	231-159-6	7440-50-8
Phosphorous	8 - 9	215-236-1	7723-14-0

SECTION 4. First Aid Measures

INHALATION: Remove to fresh air. Lay patient down. Cover with blanket.
 INGESTION: If swallowed call physician immediately, . DO NOT induce vomiting unless directed by physician. Rinse mouth with water if person is conscious.
 SKIN CONTACT: For skin exposure, remove contaminated clothing and wash with water for minimum of 15 minutes.
 EYE CONTACT: If irritated, flush eyes and skin with large volumes of fresh water for 15 minutes. Have person seek medical attention.
 MEDICAL NOTES: Skin and respiratory disorders may be aggravated by prolonged exposure.

SECTION 5. Fire-Fighting Measures

Extinguishing Media: CO₂, ABC extinguisher, or water spray.
 Special Fire Fighting Procedures: Material is non-flammable. Use firefighting measures appropriate to surrounding materials..
 Personal Protective Equipment: Wear self-contained breathing apparatus.

SECTION 6. Accidental Release Measures

Personal Precautions: Spilled material may produce dust hazard if not handled correctly. Wear appropriate personal protective equipment: coveralls, gloves & eye protection..
 Methods for Clean Up: Contain spillages and clean up with vacuum or conventional tools and attempt to minimize dusting. Place in a suitable container for recycling or disposal in accordance with local and national waste regulations.
 Method of Disposal: Place in a suitable container for recycling or disposal in accordance with local, state, and/or federal regulations.

SECTION 7. Handling and Storage

Handling: Only use in a well-ventilated area and prevent the creation of dusts. If concentrations exceed the occupational exposure limits, use suitable respiratory protection.
 Storage: Store in a cool, dry, well-ventilated place. Keep away from food, drink and animal feeding stuffs. Keep lids of container tightly sealed.


SECTION 8. Exposure Controls/Personal Protection


Occupational Exposure Standards: 8-hour TWA
 1. Copper Powder as dust and mist
 OSHA PEL: 1 mg/m³ and ACGIH TLV: 1 mg/m³
 2. Phosphorous
 OSHA PEL: 0.1 mg/m³ and ACGIH-TVL: 0.01 mg/m³

Occupational Exposure Controls: All personal protective equipment, including respiratory equipment, used to control exposure to hazardous substances must be selected to meet the requirements of national personal protective equipment regulations.

Ventilation: To keep below the U.S.A. OSHA and EU exposure limits, use general dilution type ventilation.

Personal Protection
 Respiratory Protection: Cartridge type particulate filter respirator or dust-mask conforming to U.S.A. NIOSH. Refer to Respiratory Protective Devices approved by NIOSH under 42 CFR 84 and the appropriate European standard.

 Hand Protection: Wear if skin contact is probable and skin is sensitive.

 Eye Protection: Safety glasses or goggles.
 Skin Protection: Long sleeve shirt(s) if contact is probable and skin is sensitive..

SECTION 9. Physical and Chemical Properties

Appearance:	Silver Blue metallic	Odor:	None
	Copper	Phosphorous	
Boiling Point:	2567°C	280°C	
Melting Point:	1083°C	610°C	
Specific Gravity:	8.94	1.82	
Vapor Pressure:	NA	NA	
Vapor Density:	NA	NA	
Evaporation Rate:	NA	NA	
Solubility in water:	Insoluble	Insoluble	
Volatile by Volume, %:	0	0	

SECTION 10. Stability and Reactivity

Stable X Unstable _____

Conditions & Materials to Avoid:
 • Uncontrolled exposures to extreme temperatures

Hazardous Decomposition Products: Metal fumes will be released if heated above the elements melting point
 Hazardous Polymerization: Will Not Occur

SECTION 11. Toxicological Information

Signs, symptoms, and effect of over exposure:

Eyes: Redness, tearing, itching, burning and conjunctivitis
Ingestion: Irritation and burning sensations of mouth and throat, nausea, abdominal pain with possible diarrhea.
Inhalation: Irritation of the mucous membranes, coughing, wheezing, shortness of breath. Prolonged exposure may cause metallic taste.

Acute Health Effects:

This product is not listed by NTP, IARC or regulated as a carcinogen by OSHA.

SECTION 12. Ecological Information

None Established

SECTION 13. Disposal Considerations

PACKAGING: Dispose of in accordance with procedures applying to the disposal of the product.
PRODUCT: Dispose of surplus and contaminated materials (including sawdust) at an approved landfill or in accordance with other national or regional provisions.

SECTION 14. Transportation Information

US DOT: Not a hazardous material for transportation.

DOT regulations:

Hazardous Class: Not Applicable
Land transport ADR/RID (cross-border)
Hazardous Class: Not Applicable
Maritime transport - IMDG:
Hazardous Class: Not Applicable
Marine Pollutant: Not Applicable

SECTION 15. Regulatory Information

The components of this product are subject to the reporting requirements of Sections 302, 304 and 313 Title III of the Superfund Amendments and Reauthorization Act as follows:

Chemical Name	SARA 302 (40 CFR 355, Appendix A)	SARA 304 (40 CFR Table 302.4)	SARA 313 (40 CFR 372.65)
Copper	No	Yes	Yes
Phosphorous	Yes	Yes	Yes

U.S. EPA CERCLA REPORTABLE QUANTITY (RQ): Copper = 5000 lbs.; Phosphorous (<100 micron) 1 lb.

SECTION 16. Other Information

Keep out of reach of children. Read and follow all label instructions. This information is based on our present knowledge. However, this is not a guarantee of specific product features. It is the user's responsibility to satisfy themselves as to the suitability and completeness of this information for their own particular use.

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