

1. PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Copper Vanadate

Chemical Formula: CuV_2O_6

Manufacturer Item Number: CO-1760

Manufacturer: Lorad Chemical Corporation
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2. HAZARD IDENTIFICATION

Signal Word: Danger

Pictograms:



Hazard Statements: H302 Harmful if swallowed.
H331 Toxic if inhaled.

Precautionary Statements: P261 Avoid breathing dust / fumes / gas / mist / vapors / spray.
P264 Wash face, hands, and any exposed skin thoroughly after handling.
P270 Do not eat, drink, or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P301+312+330 IF SWALLOWED: Call a POISON CENTER / doctor if you feel unwell.
Rinse mouth.
P304+340 IF INHALED: Remove victim to fresh air and keep at rest in a position for comfortable breathing.
P308+311 If exposed or concerned: Call a POISON CENTER or physician.
P403+233 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: 0

3. COMPOSITION

Additional Names:	Copper(II) Vanadium Oxide
Percentage:	100 wt%
CAS #:	14958-34-0
EC #:	239-030-6

4. FIRST AID PROCEDURES

General Treatment	Consult a physician. Show this SDS to the doctor in attendance. Move out of dangerous area.
Special Treatment:	No Data Available.
Important Symptoms:	No Data Available.
Inhalation:	If breathing in, move person into fresh air. If breathing is difficult give oxygen. If not breathing, give artificial respiration.
Ingestion:	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Skin:	Wash off with soap and plenty of water. Consult a physician.
Eyes:	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

5. FIREFIGHTING MEASURES

Flammability:	Not Flammable.
Special Hazards from Substance:	No Data Available.
Extinguishing Media:	Use extinguishing media appropriate for the local circumstances and surrounding environment.
Special Fire Fighting Procedures:	Wear self-contained breathing apparatus for firefighting if necessary.

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. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Take up mechanically, placing into suitable closed containers for disposal. Avoid creating dust. Clean contaminated surfaces thoroughly.
Environmental Precautions:	Prevent further leakage or spills if safe to do so. Do not allow to enter drains, sewers, or watercourses.

7. HANDLING AND STORAGE

Handling Conditions:	Handle in accordance with good industrial hygiene and safety practices.
Storage Conditions:	Keep container tightly closed in a dry, cool, and well-ventilated place. Store at room temperature.
Work / Hygienic Maintenance:	Handle in accordance with good industrial hygiene and safety practices. Do not eat, drink, or smoke when using this product.

Ventilation: Ensure adequate ventilation. Provide appropriate exhaust ventilation at places where dust is formed.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Permissible Exposure Limits: IDLH*: 100 mg/m³ Cu dust and mist (NIOSH)
 Ceiling: 0.05 mg/m³ dust and fume 15 min (NIOSH)
 TWA: 1 mg/m³ Cu dust and mist (NIOSH)
 * immediately dangerous to life or health

Threshold Limit Value: TWA: 1 mg/m³ (ACGIH)

Special Equipment: No Data Available.

Respiratory Protection: For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher levels of protection use positive-pressure supplied air respirators, such as when high airborne contaminant concentrations are present. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Protective Gloves: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye Protection: Safety glasses with side shields or goggles. Use equipment for eye protection tested and approved under government standards such as NIOSH (US) or EN 166(EU).

Body Protection: Wear appropriate protective clothing.

9. PHYSICAL AND CHEMICAL CHARACTERISTICS

Color: No Data Available.

Forms: solid

Odor: No Data Available.

Water Solubility: No Data Available.

Boiling Point: No Data Available.

Melting Point: No Data Available.

Flash Point: No Data Available.

Autoignition Temperature: No Data Available.

Density: No Data Available.

Molecular Weight: 261.43 g/mol

10. REACTIVITY

Stability: Stable under recommended storage conditions.

Reacts with: Strong oxidizing agents.

Incompatible Conditions: Extremes of temperature and direct sunlight.

Hazardous Decomposition Products: No Data Available.

11. TOXICOLOGICAL INFORMATION

Potential Health Effects:

- **Eyes** No Data Available.
- **Skin** No Data Available.
- **Ingestion** Harmful if swallowed.
- **Inhalation** Toxic if inhaled.
- **Chronic** May cause adverse effect on eyes, respiratory system, kidneys, liver, or skin.

Signs and Symptoms: No Data Available.

Aggravate Medical Conditions: No Data Available.

Median Lethal Dose: No Data Available.

Carcinogen: No Data Available.

12. ECOLOGICAL INFORMATION

Aquatic Toxicity: May cause long lasting harmful effects to aquatic life.

Persistence and degradability: No Data Available.

Bioaccumulative potential: No Data Available.

Notes: No Data Available.

13. DISPOSAL CONSIDERATIONS

Disposal: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Empty containers should be taken to an appropriate waste handling site for recycling or disposal. Dispose of in accordance with local, state, or national regulations.

14. TRANSPORTATION DATA

Hazardous: Hazardous for Transportation

Pictogram:



Hazard Class: 6.1 Toxic

Packing Group: III

UN Number: UN3285

Proper Shipping Name: **DoT:** Vanadium Compound, n.o.s. (Copper Vanadate)
Emergency Response Guide Number: 151

IMDG: VANADIUM COMPOUND, N.O.S. (Copper Vanadate)
EmS-No: F-A, S-A

IATA: VANADIUM COMPOUND, N.O.S. (Copper Vanadate)

15. REGULATORY INFORMATION

SARA 302 Components No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components The following components are subject to the reporting levels established by SARA Title III, Section 313:
Copper Compounds
Vanadium Compounds

SARA 311/312 Hazards Acute Health Hazard

Massachusetts Right to Know Components No components are subject to the Ma. Right to Know Act.

Pennsylvania Right to Know Components The following components are known to the State of Pennsylvania as environmental hazards:
Copper Compounds

New Jersey Right to Know Components Copper Vanadate (CAS No. 12789-09-2)

California Prop. 65 Components This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Copyright 2018 Lorad Chemical Corporation. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document does not constitute a hazard assessment and should not be used in place of the user's own assessment of work place risks as required by other health and safety legislation. The information in this sheet does not represent a guarantee of the properties of the product. Lorad Chemical Corporation and its Affiliates make no warranty with respect to the accuracy of the information or the suitability of this product for any particular application, and shall not be held liable for any damage resulting from handling or from contact with the above product.

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