

# SAFETY DATA SHEET

## SECTION 1. Identification of the Substance and Manufacturer

Product: TECHNICAL GRADE CUPROUS OXIDE

Copper (I) Oxide

Includes but not limited to the following Trade Names:

Red Copp 97N, Red Copp 97N Premium, Purple Copp 97, Purple Copp 97N, LoLo Tint 97, LoLo Tint LM, Chem Copp HP II, Chem Copp HPIII, Chem Copp Ultrafine, Brown Copp, LoLo Tint CDC, Purple Copp CDC, Red Copp CDC, and other technical grade Cuprous Oxides

manufactured by American Chemot Compagation

manufactured by American Chemet Corporation

Common uses: Antifouling Paint, Industrial chemicals

Manufacturer: American Chemet Corporation www.chemet.com

145 HWY 282 / P.O. Box 1160 East Helena, MT 59635 U.S.A.

+1(406) 227-5302 (Phone) +1(406) 227-8047 (Fax)

24-Hour Emergency: 3E Company

American Chemet Corporation/3E Company Global Incident Response Access Code: 334129

American Chemet Corporation/3E Company Contract Number 14862

Americas	Europe	Asia Pacific	Middle East/Africa
1-866-519-4752 (US, Canada, Mexico) or 1-760-476-3962	1-760-476-3961	1-760-476-3960	1-760-476-3959

For country-specific phone numbers, see Section 16.

Local Contact (if Applicable):

## 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

4.1/1 – Very toxic to aquatic life with long lasting effects Aquatic Acute, Category 1. Aquatic Chronic, Category 1.



#### Warning

3.1/4 – Harmful if swallowed Acute Toxicity, Oral, Category 4.

## **GHS Hazard Statements:**

H302 - Harmful if swallowed.

H410 - Very toxic to aquatic life with long lasting effects.

## **GHS Precautionary Statements:**

P264 - Wash hands thoroughly after handling.

P270 – Do not eat, drink or smoke when using this product.

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P330 – Rinse mouth.

P391 - Collect spillage.

P501 – Dispose of contents/container in accordance with local/national/international regulations.

## **SECTION 3.** Composition/Information of Ingredients

 Ingredient
 %
 EC Number
 CAS No.

 Cuprous Oxide
 95%
 215-270-7
 1317-39-1

 Cupric Oxide
 3%
 215-269-1
 1317-38-0

#### SECTION 4. First Aid Measures

INHALATION: Remove to fresh air. Lay patient down. Cover with blanket. INGESTION: Give 200-300 mL water to drink. DO NOT induce vomiting.

SKIN CONTACT: For skin exposure, remove contaminated clothing and wash with soap and water. EYE CONTACT: If irritated, flush eyes and skin with large volumes of fresh water for 15 minutes.

MEDICAL NOTES: If any adverse symptoms persist seek immediate medical attention.

SECTION 5. Fire-Fighting Measures

Extinguishing Media: CO<sub>2</sub>, ABC extinguisher, or water spray.

Special Fire Fighting Procedures: Material is non-flammable. Use firefighting measures appropriate to surrounding

naterials.

Special Exposure Hazards: Cuprous oxide is stable in dry air, but can oxidize to cupric oxide in the presence of moist

air at temperatures above 100°C.

Additional Information: Collect contaminated fire fighting water separately.

It must not enter the sewer system.

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.

Environmental Precautions: Do not allow to enter drains or watercourses. If the product enters drains or sewers,

immediately inform the local water company. Where there is contamination of streams,

rivers or lakes, contact local agency with responsibility for the environment.

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.

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 and drink.

Common uses: Antifouling Paint, Industrial chemicals

SECTION 8. Exposure Controls/Personal Protection

Occupational Exposure Standards: Copper as dusts & mist :

OSHA PEL & ACGIH TLV 1 mg/m<sup>3</sup> 8-hour TWA

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.

Personal Protection:

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

ventilation.

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.

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Eye Protection: Safety glasses or goggles.

Skin Protection: Long sleeve shirt(s) if contact is probable and skin is sensitive.

Environmental Protection: Do not allow to enter drains or watercourses.

SECTION 9. Physical and Chemical Properties

Appearance: Red, Brown or Purple Fine Powder Vapor Pressure: NA
Odour: None Vapour Density: NA
Boiling Point: NA
Melting Point: 1235 °C

Evaporation Rate: NA Solubility in Water: Negligible (<0.1%)

Specific Gravity(H<sub>2</sub>O=1) 6.0 Percent Volatile (v/v) 0%

SECTION 10. Stability and Reactivity

Stable X Unstable \_\_\_\_

Conditions & Materials to Avoid:

 $\bullet\,$  Temperatures above 100 °C while in the presence of moist air.

• Under certain conditions Cu<sub>2</sub>O may react violently with strong reactants such as acids and bases.

Hazardous Decomposition Products: Copper fumes will be released if heated above its melting point (1235 °C).

Hazardous Polymerization: Will Not Occur

SECTION 11. Toxicological Information

**Acute Toxicity** 

Oral (Rat): Harmful if swallowed – may cause nausea, chills or diarrhea.

Dermal (Rabbit): Not classified Skin Irritation: Not classified as a skin irritant Inhalation (Rat): Not classified Eye Irritation: Not classified as an eye irritant

Sensitization: Not classified as a dermal sensitizer

## SECTION 12. Ecological Information

Toxic to fish and other aquatic organisms.

Prevent from entering drains, sewers, and surface water.

### 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 Regulated. Class 9 materials do not require placarding for U.S.A. ground transport (49 CFR

172.504(f)(9)). *Exceptions*, except when all or part of the transportation is by vessel, the requirements specific to marine pollutants do not apply to non-bulk packagings transported by motor vehicle, rail car, or aircraft (49 CFR 171.4(c)). Permissive labelling is allowed by U.S.A.

DOT (49 CFR 172.401(c)).

Proper Shipping Name: UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(Copper (I) Oxide), Class 9, PG III, MARINE POLLUTANT

## . Land transport ADR/RID (cross-border) Excluding U.S.A. Ground Transport





· ADR/RID class: 9 (M7) Miscellaneous dangerous substances and articles

Danger code (Kemler): 90
UN Number: 3077
Packaging group: |||
Hazard label: 9

· Proper shipping name: 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(Copper (I) Oxide)

· Tunnel Restriction Code: E

#### · Maritime transport IMDG:





·IMDG Class: 9
· UN Number: 3077
· Hazard Label: 9
· Packaging group: ||||
· Marine pollutant: yes

Proper shipping name: 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(Copper (I) Oxide)

• EmS Code: F-A, S-F

## · Air transport ICAO-TI and IATA-DGR:





· ICAO/IATA Class: 9
· UN/ID Number: 3077
· Hazard Label: 9
· Packaging group: ||||

· Proper shipping name: 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(Copper (I) Oxide)

### SECTION 15. Regulatory Information

U.S. EPA EPCRA Section 313 Reportable Product – (contains copper)

U.S. EPA Reportable Quantity: 5,000 lbs. (2,270 kg)

REACH Registration Number for American Chemet Corporation's Cuprous Oxide: 01-2119513794-36-0002

## 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.

Country Specific 24-Hour Emergency Phone Numbers: 3E Company

Country	Number	Languages
Australia	+ 61 1 800 686 951	English
China	+86 4001 2001 74	Chinese
New Zealand	+64 800 451719	English
United Kingdom	+44 8 08 189 0979	English