



## SAFETY DATA SHEET

Cupron Classic™ PP Masterbatch 25%

MSDS DATE: 03/28/2025

### SECTION 1: Identification of the substance and of the company

#### 1.1 Product identifier:

Product name: Cupron Classic™ PP Masterbatch 25%  
Synonyms: PP0407-NC2500  
Product type: Solid

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the substance Masterbatch or compound for polymer industry

#### 1.3 Details of the supplier of the safety data sheet

##### MANUFACTURER:

Company name: Cupron, Inc.  
ADDRESS: 800 East Leigh Street, Suite 123,  
Richmond, VA 23219, United States of America  
Dr. Chenyu Wang  
+1 (804) 787-3385  
E-mail: cywang@cupron.com

#### 1.4. Emergency Telephone number

EMERGENCY PHONE: +1 (804) 787-3385

### SECTION 2: Hazards identification

#### Potential health effects

Eyes: Mechanical irritation is possible  
Skin: Molten polymer may cause thermal burns  
Ingestion: Harmful if swallowed  
Inhalation: Inhalation of process fumes, vapors or dusts may cause irritation in the respiratory system and/or metal fume fever.  
Chronic: No known chronic health effects

### SECTION 3: Composition/Information on ingredients

| Chemical      | Cas #     | EC #      | Weight % | OSHA Pel | NTP Listed | IARC Listed |
|---------------|-----------|-----------|----------|----------|------------|-------------|
| Cuprous Oxide | 1317-39-1 | 215-270-7 | < 28 %   | N/A      | N/A        | N/A         |
| Cupric oxide  | 1317-38-0 | 215-269-1 | < 3 %    | N/A      | N/A        | N/A         |
| Polypropylene | 9003-07-1 | N/A       | < 75 %   | N/A      | N/A        | N/A         |



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### SECTION 4: FIRST AID MEASURES

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| Entry Route  | Emergency First Aid Procedures                                                                                                                                                                                                  |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Inhalation   | Remove person to fresh air. If breathing has stopped, perform artificial respiration. Obtain medical attention.                                                                                                                 |
| Eye Contact  | Flush eyes with running water. If irritation develops or persists, obtain medical attention.                                                                                                                                    |
| Skin Contact | For irritation, flush the skin with cool running water. Wash the affected area with mild soap and water. If irritation develops or persists, obtain medical attention. Wash any contaminated clothing with detergent and water. |
| Ingestion    | If person is conscious, rinse mouth, and give large quantities of water to drink. Obtain medical attention. Harmful if swallowed. Causes gastrointestinal discomfort, nausea, vomiting, and diarrhea.                           |

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### SECTION 5: FIRE-FIGHTING MEASURES

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#### EXTINGUISHING MEDIA:

Use fire fighting measures appropriate for surrounding materials. Eliminate oxygen. Employ CO<sub>2</sub>, ABC extinguisher, or water spray.

#### SPECIAL FIRE FIGHTING PROCEDURES:

Wear protective fire fighting equipment including a positive pressure self-contained breathing apparatus. Attempt to collect any fire fighting water and contain, protect against discharge and run-off into sewers or waterways.

#### UNUSUAL FIRE AND EXPLOSION HAZARDS:

N/A

#### HAZARDOUS DECOMPOSITION PRODUCTS:

N/A

#### HMIS RATINGS: Health: 1

Flammability: 1

Physical Hazard: 0

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### SECTION 6: ACCIDENTAL RELEASE MEASURES

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#### ACCIDENTAL RELEASE MEASURES:

1. Wear appropriate personal protective equipment. Eliminate all sources of ignition.
2. Keep out of sewers and waterways. 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.
3. Recycle or dispose via a licensed waste disposal contractor.



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### SECTION 7: HANDLING AND STORAGE

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#### HANDLING AND STORAGE:

Keep containers containing plastic pellets sealed at all times when not being used. Local exhaust ventilation may be necessary for some operations.

Store at dry environment and temperatures not exceeding 38° C (100° F). Keep away from sources of moisture.

#### OTHER PRECAUTIONS:

Use dust-proof safety goggles. Contact lenses not recommended. Wear suitable protective clothing and gloves. Use NIOSHA/MSHA approved respirator.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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#### ENGINEERING CONTROLS:

If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

#### ENVIRONMENTAL EXPOSURE CONTROL:

Limiting releases from site: Where appropriate, material should be recovered and recycled through the process. Spillages of Cupron masterbatch should be swept or vacuumed up immediately and placed in containers for disposal in order to prevent unintentional release to the environment. Waste containing Cupron masterbatch should be handled as an hazardous waste and removed by licensed operator to an offsite location where it can be incinerated or disposed to a hazardous landfill.

Water Emissions: Storage should be sheltered from precipitation. Avoid spillage into water and cover drains.

#### HYGIENE MEASURES:

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### VENTILATION:

Good manufacturing practice and good industrial hygiene practice recommend the use of ventilated and circulated air in production areas.

#### RESPIRATORY PROTECTION:

Use NIOSHA/MSHA approved respirator.

#### EYE PROTECTION:



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Use dust-proof safety goggles. Contact lenses not recommended.

### SKIN PROTECTION:

Wear suitable protective clothing, footwear and gloves.

### OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

N/A

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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### APPEARANCE:

Reddish plastic pellets.

### ODOR:

Plastic odor.

### PHYSICAL STATE:

Plastic Pellets

### pH AS SUPPLIED:

N/A

| SOLUBILITY<br>WATER | IN | PERCENT<br>SOLIDS<br>WEIGHT % | BY | PERCENT<br>VOLATILE<br>WEIGHT % | BY | VOC<br>(LBS/GAL) | MOLECULAR<br>WEIGHT | SPECIFIC GRAVITY |
|---------------------|----|-------------------------------|----|---------------------------------|----|------------------|---------------------|------------------|
| Negligible(<0.1%)   |    | 100%                          |    | 0%                              |    | N/A              | N/A                 | N/A              |

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## SECTION 10: STABILITY AND REACTIVITY

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### STABILITY:

Stable in dry air, but oxidizes to cupric oxide in moist air.

### CONDITIONS TO AVOID (STABILITY):

Violent, potentially explosive reaction with concentrated peroxyformic acid. Avoid contact with strong reducing agents by storing according to good industrial practice.

### INCOMPATIBILITY (MATERIAL TO AVOID):

Peroxylformic acid, strong reducing agents

### HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:

N/A



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### HAZARDOUS POLYMERIZATION:

Will not occur.

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## SECTION 11: TOXICOLOGICAL INFORMATION

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|                            |                                                                                                                                    |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Acute oral toxicity:       | Not tested                                                                                                                         |
| Acute inhalation toxicity: | Not tested                                                                                                                         |
| Acute dermal toxicity:     | Not tested                                                                                                                         |
| Skin irritation:           | Not tested                                                                                                                         |
| Eye irritation:            | Not tested                                                                                                                         |
| Skin Sensitization:        | Not tested                                                                                                                         |
| Chronic toxicity:          | Not tested                                                                                                                         |
| Carcinogenicity:           | None of the components in this product at concentrations greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen. |

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## SECTION 12: ECOLOGICAL INFORMATION

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### Ecological information:

No information available

### Persistence and degradability:

No information available

### Bioaccumulative potential:

No information available

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## SECTION 13: DISPOSAL CONSIDERATIONS

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### WASTE DISPOSAL METHOD:

The product should be collected for recycling, or be disposed of in a place where copper is tolerated or needed. Leakage to water should be avoided. Comply with local, state and Federal legislation.

RCRA P-Series: None listed

RCRA U-Series: None listed

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## SECTION 14: TRANSPORT INFORMATION

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U.S. Department of Transportation: Not regulated for transport

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## SECTION 15: REGULATORY INFORMATION

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### U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): N/A



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**CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):** N/A

**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):** Copper Compounds are on the SARA Title III, Section 313 Toxic Chemicals List. Reportable quantity 5,000 lbs.

**311/312 HAZARD CATEGORIES:** N/A

**313 REPORTABLE INGREDIENTS:** Copper oxide

**California Proposition 65:** Not listed

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### DISCLAIMER:

This information is given in good faith based on the best available knowledge of this specific product, however Cupron, Inc. provides no warranties, either expressed or implied, and assumes no responsibility as to the accuracy or completeness of this information. Data on this Material Safety Data Sheet applies only to the product described and may not be relevant to use in combination with other materials, or in any process.