

# TECHNICAL, INC.

## SAFETY DATA SHEET

### SECTION 1. IDENTIFICATION

**Product Name:** COPPER POWDER 602

**Product Code:** 22-602

**Recommended use:** Conductive filler; for industrial use only.

**Supplier:**

Technic Inc.  
1 Spectacle Street  
Cranston, RI 02910 USA

**Current SDS preparation date:** May 4, 2017

**Original SDS preparation date:** June 5, 2015

**Telephone no:** 401-781-6100

**Emergency no:** ChemTrec 800-424-9300, Outside the USA and Canada 703-527-3887

### SECTION 2. HAZARD IDENTIFICATION

**Classification:**

Eye Damage/Irritation, Category 2A

**Label elements and precautionary statements:**

**Signal word:** Warning

**Pictogram(s):**



**Hazards not otherwise classified:** None

**Hazard statement(s):**

Causes serious eye irritation

**Precautionary statement(s):**

Wash hands thoroughly after handling.

Wear protective gloves, clothing and eye and face protection.

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.

### SECTION 3. COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical name	CAS Number	EINECS Number	Concentration
Copper (metallic)	7440-50-8	231-159-6	100%

### SECTION 4. FIRST AID MEASURES

**Inhalation:**

Remove patient to fresh air. Support breathing if required. Obtain medical treatment for dizziness, unconsciousness or irritation or difficulty in breathing.

**Skin contact:**

Remove contaminated clothing and wash affected area thoroughly with soap and water. Launder clothing before rewearing. Seek medical attention for prolonged skin irritation.

**Eye contact:**

Flush with water, including under lids, for fifteen minutes. Obtain immediate medical attention.

**Ingestion:**

If patient is conscious, rinse mouth and drink at least two large glasses of water. DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Obtain immediate medical attention.

### SECTION 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media:** Use media appropriate for surrounding fire such as foam, extinguishing powder, carbon dioxide or water spray. In case of fire, cool endangered containers with water spray.

**Unsuitable extinguishing media:** High pressure water jet.

**Specific hazards in case of fire:** May react with incompatible materials (see Section 10) under fire conditions.

**Special protective equipment and precaution for fire fighters:** For fires in enclosed areas, wear self-contained breathing apparatus and full protective gear. Do not inhale combustion gases.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### **Personal precautions, protective equipment and emergency procedures:**

Wear appropriate skin, eye and respiratory protection. Do not eat, drink or smoke while cleaning up.  
Ensure adequate ventilation.

### **Methods and materials for containment and cleaning up:**

Wear appropriate personal protective gear including eye, skin and respiratory protection. Contain spilled material and collect without raising dust by a suitable method such as vacuuming or wet sweeping. Do not allow this material or its rinsings to enter storm or sanitary sewers or other waterways. (See also Section 13).

### **Environmental precautions:**

Prevent spills and rinsings from entering storm or sanitary sewers or other waterways and contact with soil.

## SECTION 7. HANDLING AND STORAGE

### **Precautions for safe handling:**

Avoid contact with eyes. Avoid prolonged repeated skin contact and breathing mists or vapors.  
Use in well-ventilated area. Do not empty waste into sanitary drains.

### **Conditions for safe storage, including incompatibilities:**

Store in a cool, dry area. Use with adequate ventilation. Keep container tightly closed when not in use.  
Store only in the original container.

## SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

### **Exposure Limits:**

<b><u>Ingredient</u></b>	<b><u>ACGIH TLV</u></b>	<b><u>OSHA PEL</u></b>	<b><u>Other Limits</u></b>
Copper (metallic)	1 mg/m <sup>3</sup> TWA	1 mg/m <sup>3</sup>	1 mg/m <sup>3</sup> NIOSH REL

### **Appropriate engineering controls:**

Use in well-ventilated area with local exhaust.

### **Respiratory protection:**

Wear appropriate, approved respiratory protection when ventilation is inadequate to meet exposure limits.

### **Eye protection:**

Chemical splash goggles or safety glasses with side shields must be worn.

### **Skin protection:**

Wear rubber or neoprene gloves. Wear rubber apron and long sleeves to prevent skin contact. Wash hands thoroughly with soap and water after handling and before eating or smoking.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:** Solid, metal powder  
**Color:** Red-brown  
**Odor:** None  
**Odor threshold:** Not available  
**pH:** Not applicable  
**Melting/freezing point:** 1083 °C (1982 °F)  
**Initial boiling point:** Not determined  
**Flash point:** Not applicable  
**Evaporation rate:** Not available  
**Flammability (solid, gas):** Not applicable  
**Upper/lower explosion limits:** Non-explosive  
**Vapor pressure:** Not determined  
**Vapor density:** Not determined  
**Relative density (H<sub>2</sub>O = 1) @25 °C:** 8.94  
**Solubility:** Insoluble in water; soluble in mineral acids  
**Partition coefficient octanol/water:** Not applicable  
**Auto-ignition temperature:** Not applicable  
**Decomposition temperature:** Not applicable  
**Viscosity:** Not applicable

## SECTION 10. STABILITY AND REACTIVITY

**Reactivity:** Stable, non-reactive when stored and used according to recommendations.  
**Chemical stability:** No decomposition if used according to specifications.  
**Possibility of hazardous reactions:** None reported.  
**Conditions to avoid:** None reported.  
**Incompatible materials:** Mineral acids and strong oxidizers.  
**Hazardous decomposition products:** None reported.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Routes of Exposure and Symptoms

**Inhalation:** Inhalation of powder can cause mild, non-specific irritation of nasal and respiratory passages.  
**Ingestion:** Non-specific symptoms may occur due to presence of particulate material.  
**Skin Contact:** No reported effects.  
**Eye Contact:** Metallic particles will cause mechanical irritation to eye tissue.

### Acute and Chronic Effects from Short- and Long-term Exposure:

See Routes of Exposure and Symptoms above.

**Acute Oral Toxicity:** TDLo: 152 mg/kg (rat, copper)

**Acute Dermal Toxicity:** None reported; copper is non-toxic.

**Acute Inhalation Toxicity:** None reported; copper is non-toxic.

**Acute Eye Irritation:** Metal particles cause mechanical irritation to eye tissue.

**Dermal Irritation:** None reported; copper is non-irritating.

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**Carcinogen Listings:**

**IARC:** No

**NTP:** No

**OSHA:** No

**Reproductive Effects:** No applicable information available.

**Target Organ Effects:** No applicable information available.

## SECTION 12. ECOLOGICAL INFORMATION

**Aquatic Toxicity:** There are no data reported for this material.

**Persistence and degradability:** There are no data reported for this material.

**Bio-accumulative potential:** There are no data reported for this material.

**Mobility in soil:** There are no data reported for this material.

## SECTION 13. DISPOSAL CONSIDERATIONS

**Waste Disposal:**

Disposal of this material is subject to user compliance with applicable laws and regulations and consideration of product characteristics at time of disposal.

## SECTION 14. TRANSPORT INFORMATION

**Classification for shipment by road or rail, sea (IMDG) and air (IATA/ICAO):**

**UN proper shipping name:** Environmentally Hazardous Substance, Solid, N.O.S.  
(Copper Metal Powder)  
**UN number:** UN3077  
**Transport hazard class:** 9  
**Packing group:** III

**Marine Pollutant:** Yes (Copper Metal Powder)

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## SECTION 15. REGULATORY INFORMATION

**Inventory Status:**

All components are on TSCA, EINECS/ELINCS, AICS, and DSL.

**U.S. Regulations:**

**U.S. Superfund Amendments and Reauthorization Act (SARA) Title III:**

**SARA (311/312) HAZARD CATEGORIES:**

☐ None ☒ Immediate ☐ Delayed ☐ Fire ☐ Reactive ☐ Pressure generating

**SARA 313:** This product contains the following SARA 313 Toxic Release Chemicals.

Chemical Name	CAS Number	Concentration
None		

The following product components are cited on the lists below:

Chemical Name	CAS Number	List Citations
None		California Proposition 65 List

## SECTION 16. OTHER INFORMATION

**VOC (Volatile Organic Compounds):** None

**HMIS Ratings:**

**Health:** 1 **Flammability:** 0 **Reactivity:** 0 **Personal Protection:** C

**Prepared by:** Allan H. Reed

**SDS Preparation date:** May 4, 2017

**Supersedes previous version:** August 27, 2015.

This SDS contains revisions in the following section(s): 2, 14, 15.

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End of Safety Data Sheet