



Modern, Natural, Versatile  
 4401 Eastern Ave 45-2A  
 Baltimore, MD 21224  
 information@monave.com  
 (410) 534-1058

## Certificate of Analysis

Product Code: Fine Copper  
 Trade Name: Fine Copper  
 Manufacturer: Monave  
 Batch No.: #220221

Assay(INCI)	Cas No.	Spec.Values	Batch Values	Method
Mica	12001-26-2	45-49%	46.80%	Kolortek
Iron oxide	1309-37-1	51-55%	53.20%	Kolortek
Particle size(80% within the range 5-25µm)		confirms	confirms	laser diffraction
Particle size(d50)		9-11µm	10µm	laser diffraction
pH-value(4% H <sub>2</sub> O)		6-9	7.2	ISO787-9
Loss on drying(105°C)		≤0.5%	≤0.5%	ISO787-9
Heavy metals				
As		≤2 ppm	≤2 ppm	Kolortek
Ba		≤50 ppm	≤50 ppm	Kolortek
Cd		≤3 ppm	≤3 ppm	Kolortek
Cr		≤100 ppm	≤100 ppm	Kolortek
Cu		≤50 ppm	≤50 ppm	Kolortek
Hg		≤1 ppm	≤1 ppm	Kolortek
Ni		≤10 ppm	≤10 ppm	Kolortek
Pb		≤10 ppm	≤10 ppm	Kolortek
Sb		≤1 ppm	≤1 ppm	Kolortek
Zn		≤50 ppm	≤50 ppm	Kolortek
Visual and colorimetric evaluation		confirms	confirms	Kolortek
Microbiological purity				
Microorganisms		<100CFU/g	<100CFU/g	Kolortek
Ph.Eur.USP XXII		No Pathogens	No Pathogens	Kolortek

It is hereby confirmed that the delivered goods have been examined and they are in accordance with our confirmation of order

Date: 22nd Feb. 2022



# Material Safety Data Sheet

## Section 1 Product and Company identification

Product Name **Fine Copper**

Effective Date **5/20/2013**

Print Date **5/20/2013**

Material Uses **Cosmetic Pigments**

Chemical Family **Inorganic pigment.**

## Section 2. Composition and information on Ingredients

Component	% by Weight
IRON OXIDE	51-59
MICA (mineral)	41-49

## Section 3. Hazards Identification

Physical State and Appearance **Solid. (Copper-red, odorless, lustrous powder)**

Emergency Overview **MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION.**

Routes of Entry **Eye contact. Inhalation. Ingestion (not anticipated).**

### Potential Acute Health Effects

*Eyes* May cause eye irritation. Symptoms include: itching and redness after contact.

*Skin* May cause mild skin irritation. Symptoms include: itching and redness after contact.

*Inhalation* May cause respiratory tract irritation. Symptoms include: coughing, wheezing or shortness of breath when inhaled.

*Ingestion* Not an intended route of exposure. May be hazardous in case of ingestion. Symptoms include: gastrointestinal tract upset and diarrhea.

### Potential Chronic Health Effects

Additional information See Toxicological information (section 11)

Medical Conditions Aggravated by Overexposure: **Repeated or prolonged inhalation of any dust particulate may aggravate respiratory medical conditions.**

## Section 4. First Aid Measures

**Eye Contact** Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If symptoms persist, seek medical attention.

**Skin Contact** In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before reusing. Thoroughly clean shoes before reuse, if symptoms develop, seek medical attention.

**Inhalation** If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. If symptoms persist, seek medical attention.

**Continued on Next Page**

**Ingestion** Do not ingest. If this material is swallowed, call a physician immediately. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

**Section 5. Fire Fighting Measures**

**Flammability of the Product** Non-flammable.

**Fire Fighting Media and Instructions** In case of fire, use water spray (fog), foam, dry chemical, or CO2.

**Protective Clothing (Fire)** WEAR self-contained breathing apparatus and full protective clothing.

**Section 6. Accidental Release Measures**

**Small Spill and Leak** Use a tool to scoop up solid or absorbed material and place into appropriate labeled waste container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional regulatory requirements.

**Large Spill and Leak** Use appropriate tools to put the spilled material into a labeled waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional regulatory requirements. Check TLV in Section 8 of MSDS and with local aithorites.

**Spill Kit Information** No specific spill kit required for this product.

**Section 7. Handling and Storage**

**Handling** Avoid generating dust. Avoid breathing dust. Use only with adequate ventilation. Avoid prolonged or repeated contact with skin. Avoid contact with eyes. Keep container closed. Wash thoroughly after handling.

**Storage** Keep container dry. Keep containers sealed until ready for use.

**Section 8. Exposure Controls/Personal Protection**

**Engineering Controls** Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

**Personal Protection**

*Eyes* Safety glasses.

*Body* Lab coat.

*Respiratory* Dust mask. Use additional appropriate respiratory protection if there is the potential to exceed the exposure limit(s).

*Hands* Recommended: Gloves.

*Feet* Not applicable.

**Protective Clothing (Pictograms)**



**Personal Protection in Case of a Large Spill** Splash goggles. Synthetic apron. Gloves. Wear MSHA/NIOSH approved self-contained breathing apparatus or equivalent and full protective gear.

**Product Name**

**Exposure Limits**

IRON OXIDE

ACGIH (United States, 1996).  
 TWA: 5 mg/m3  
**OSHA (United States, 1989). Notes: Total**  
 STEL: 10 ppm  
**ACGIH (United States, 1997).**  
 TWA: 10 mg/m3 8 hour(s).  
 TWA: 5 mg/m3 8 hour(s). Form: Dust and fumes  
**NIOSH REL (United States, 1994).**  
 TWA: 5 mg/m3 10 hour(s). Form: Dust and fumes  
**OSHA Final Rule (United States, 1989).**  
 STEL: 10 ppm 15 minute(s). Form: Total particulates  
**ACGIH (United States, 1994).**  
 TWA: 3 mg/m3  
**OSHA (United States, 1989). Notes: Respirable**  
 TWA: 3 mg/m3  
**ACGIH (United States, 1994).**  
 TWA: 3 mg/m3 8 hour(s).  
**NIOSH REL (United States, 1994).**  
 TWA: 3 mg/m3 10 hour(s). Form: Respirable fraction  
**OSHA Final Rule (United States, 1989).**  
 TWA: 3 mg/m3 8 hour(s). Form: Respirable dust

MICA (mineral)

**Section 9. Physical and Chemical Properties**

Odor	Odorless
Color	Copper-red
Physical State and Appearance	Solid. (Copper-red, odorless, lustrous powder)
Molecular Weight	Mixture.
Molecular Formula	Not applicable.
pH	3 to 7 (Cone. (% w/w): 10)
Melting/Freezing Point	Not available.
Specific Gravity	Not applicable.
Density	Bulk Density 2.4 to 3.3 g/in3
Solubility	Insoluble in water.

**Section 10. Stability and Reactivity**

Stability and Reactivity	The product is stable.
Hazardous Decomposition Products	Not applicable.
Hazardous Polymerization	Will not occur.

**Section 11. Toxicological Information**

RTECS Number:	Iron Oxide Mica (mineral)	NO7400000 W8760000
Toxicity	Acute oral toxicity (LD50): >16000 mg/kg [Rat].	
Chronic Effects on Humans		

**Continued on Next Page**

CARCINOGENIC EFFECTS: Classified None, by NIOSH [IRON OXIDE], Classified A4 (Not classifiable for human or animal.) by ACGIH, 3 (Not classifiable for human.) by IARC [IRON OXIDE].  
 MUTAGENIC EFFECTS: Not available.  
 TERATOGENIC EFFECTS: Not available.  
 DEVELOPMENTAL TOXICITY: Not available.  
 Repeated or prolonged exposure to the substance at concentrations above exposure limits may cause respiratory damage.  
 Target Organs: eyes, lungs, skin.

**Acute Effects on Humans** May cause skin, eye and respiratory irritation.

**Sensitization** Repeated or prolonged exposure to the substance at concentrations above the exposure limits may cause respiratory tract and lung sensitization.

**Carcinogenic Effects** This material is not known to cause cancer in animals or humans.

**Section 12. Ecological Information**

**Toxicity of the Products of Biodegradation** The product itself and its products of degradation are not toxic.

**Section 13. Disposal Considerations**

**EPA Waste Number** Non-hazardous waste

**Treatment** Dispose of according to all federal, state and local regulations.

**Section 14. Transport Information**

**DOT Classification** Not regulated.

**TDG Classification** Not regulated.

**IMO/IMDG Classification** Not regulated.

**ICAO/IATA Classification** Not regulated.

**Section 15. Regulatory Information**

**U.S. Federal Regulations** TSCA8(b) inventory: IRON OXIDE; MICA (mineral)  
 SARA 302/304/311/312 extremely hazardous substances: No products were found.  
 SARA 302/304 emergency planning and notification: No products were found.  
 SARA 302/304/311/312 hazardous chemicals: IRON OXIDE; MICA (mineral)  
 SARA 311/312 MSDS distribution - chemical inventory - hazard identification: IRON OXIDE: Immediate (Acute) Health Hazard; MICA (mineral): Immediate (Acute) Health Hazard  
 SARA 313 toxic chemical notification and release reporting: No products were found.  
 Clean Water Act (CWA) 307: No products were found.  
 Clean Water Act (CWA) 311: No products were found.  
 Clean air act (CAA) 112 accidental release prevention: No products were found.  
 Clean air act (CAA) 112 regulated flammable substances: No products were found.  
 Clean air act (CAA) 112 regulated toxic substances: No products were found.

**WHMIS (Canada)** Not controlled under WHMIS (Canada).  
 CEPA DSL: IRON OXIDE; MICA (mineral)

**International Regulations**

**EINECS** IRON OXIDE 215-168-2  
 MICA (mineral) 3101276

**DSCL (EEC)** S22- Do not breathe dust.

International lists    Australia (NICNAS): IRON OXIDE; MICA  
                                  Japan (MITI): IRON OXIDE; MICA  
                                  Korea (TCCL): IRON OXIDE; MICA  
                                  Philippines (RA6969): IRON OXIDE; MICA

**State Regulations**    Pennsylvania RTK: IRON OXIDE: (generic environmental hazard)  
                                  Massachusetts RTK: IRON OXIDE; MICA (mineral)  
                                  New Jersey: IRON OXIDE; MICA (mineral)

**Section 16: Other Information**

**Hazardous Material  
Information System  
(U.S.A.)**

	*	1
		0
Reactivity		0
Personal Protection		;E;

**National Fire  
Protection  
Association (U.S.A.)**

**Other Special  
Considerations**    Not available.

**Changed Since Last Revision** 