

Material Safety Data Sheet

1. COMPANY AND PRODUCT IDENTIFICATION

WESTERN CERAMIC SUPPLY

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Product Name: Western Ceramic Colors

Item Numbers: 206*, 304, 305, 352, 423, 430, 432, 433, 435, 437, 439, 440, 4522*

Product Type: Copper Containing Ceramic Glaze (*also contain fluorosilicates)

2. COMPOSITION / INFORMATION ON INGREDIENTS

The ingredients in this formulation are a trade secret. All ingredients in the formula are non-hazardous, unless specified in Sections 3 and 15.

3. HAZARDS IDENTIFICATION

Contains soluble copper (Copper Carbonate and/or Copper Oxide)

(#206 and 4522 also contain fluorosilicates)

HMIS Hazard Ratings for Product

Health 1*

Flammability: 0

Reactivity: 0

Personal Protection: See Section 8

0= Minimal

1= Slight

2= Moderate

3= Serious

4= Severe

*= Chronic Effects

4. FIRST AID MEASURES

Eye Contact: Flush eyes with large amounts of water for 15 minutes. Consult a physician if irritation persists.

Skin Contact: Wash affected skin areas thoroughly with soap and water. Consult a physician if irritation persists.

Inhalation: Move subject to fresh air.

Ingestion: May be harmful if swallowed. Exposure may cause damage to the kidneys, liver or anemia. If swallowed get prompt medical attention.

5. FIRE FIGHTING MEASURES

Autoignition Temperature: Nonflammable

Flash Point: Not Applicable

Upper Explosive Limit (%): Not Applicable

Lower Explosive Limit (%): Not Applicable

Extinguisher Media: Product is nonflammable – Use extinguishing media appropriate for surrounding fire

Special Firefighting Procedures: Not Applicable

Fire & Explosion Hazards: Not Applicable

NFPA Flammability Hazard Class: 0 = Insignificant

6. ACCIDENTAL RELEASE MEASURES

Spill or Leak Procedures: Spills should be taken up with suitable absorbent material and placed in containers. Spill areas can be washed with water; collect wash water for approved disposal. Do not flush to storm sewer or waterway. For safety and environmental precautions, please review entire Material Safety Data Sheet for necessary information.

7. HANDLING AND STORAGE

Storage Temperature: 40° - 100°F

Handling / Storage: Protect from freezing; keep container sealed when not in use

Ventilation Requirements: General

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

Conditions Under Which Personal Protective Equipment Required

Eye Protection Requirements: Wear safety glasses with side shields if using a sprayer

Glove Requirements: Gloves are not normally required for foreseeable conditions of use

Clothing Requirements: Protective clothing is normally not necessary for foreseeable conditions of use

Change / Removal of Clothing: None required

Wash Requirements: Good hygiene practices should be followed

Respirator Requirements: NIOSH approved respirator for sprays and mists recommended if using a sprayer

Ventilation Requirements: General; local exhaust ventilation recommended when spraying, avoid fumes when firing

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance / Physical Description: Colored liquid. Odorless

pH: 7 - 10

Boiling Point: 212°F

Freezing Point: 32°F

Melting Point: 1800°F

Solubility in Water: Miscible

Specific Gravity (Water = 1): 1.3 – 1.8

Bulk Density: 10.8 – 15.0 lb / gal

Evaporation Rate (Water = 1): 1

Vapor Pressure: 17.5 mm Hg @ 20°C (68°F)

Autoignition Temperature: Not Applicable

Flash Point: Not Applicable

Oxidizing Properties: Not Applicable

10. STABILITY AND REACTIVITY

Stability: Stable

Incompatible Materials: None known

NFPA Reactivity Hazard Class: 0 = Insignificant

Hazardous Decomposition Products: Metal/ fluoride containing fumes from firing, avoid fumes when firing

Hazardous Polymerization: Will not occur

Conditions to Avoid: None Known

11. TOXICOLOGICAL INFORMATION

Short – Term Effects of Exposure

Routes of Entry: Inhalation: No Skin Contact: No Ingestion: Yes

Acute Effects – Eye: Abrasive, can scratch eyes

Acute Effects – Skin Contact: No hazard in normal industrial use.*

Acute Effects – Inhalation: No hazard in normal industrial use. Not intended for spray application.

Acute Effects – Ingestion: Ingestion of soluble copper salts may cause anemia, damage to liver or kidneys.

*** Intentional skin contact with this product for the purpose of creating hand or foot imprints may cause skin irritation.**

Long – Term Effects of Exposure

Effect of Chronic Exposure: Prolonged or repeated exposure may cause dermatitis, anemia, damage to kidneys or liver.

Overexposure to fluoride containing vapors may cause lung inflammation, cough, or chest pains.

Target Organs: kidneys and/or liver

Carcinogenicity: IARC Monographs: No **NTP:** No **OSHA Regulated:** No

12. ECOLOGICAL INFORMATION

No Applicable Data

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods: Waste disposal should be in accordance with existing Federal, State, and Local environmental regulations.

14. TRANSPORT INFORMATION

U.S. Department of Transportation Information

DOT Shipping Name: Glazes or Stains, Ceramic or Pottery, Artists or Hobbyists Liquid

DOT Hazard Class: 88690 Sub. 1

DOT Reportable Quantity: None

15. REGULATORY INFORMATION

TSCA: All components are on the TSCA Inventory

FDA: 21CFR175.105

SARA/Title III: This product contains no substances at or above the reported threshold under Section 313, based on available data. Products bearing the Nontoxic Product Seal are certified in a program of toxicological evaluation by a nationally recognized toxicologist to contain no materials in sufficient quantities to be toxic or injurious to humans or to cause acute or chronic health problems. These products are certified to be labeled in accordance with the voluntary chronic hazard labeling standard ASTM D-4236. In addition, there is no physical hazard as defined within 29 CFR Part 1910.1200(c).

16. OTHER INFORMATION

Table of Abbreviations

ACGIH American Conference of Governmental Industrial Hygienists

ANSI American National Standards Institute

ASTM American Society for Testing Materials

°C Degrees Centigrade

CAS Chemical Abstract Service

CERCLA Comprehensive Environmental Response, Compensation and Liability Act

CFR Code of Federal Regulations

CPR Controlled Products Regulations

DOT Department of Transportation

EPA Environmental Protection Agency

°F Degrees Fahrenheit

FDA Food & Drug Administration

Hg Mercury

HMIS Hazardous Materials Identification System

IARC International Agency for Research on Cancer

LD Lethal Dose

mg / kg Milligram per kilogram

mm Millimeter

MSDS Material Safety Data Sheet

MSHA Mine Safety and Health Administration

N / A Not Applicable

NFPA National Fire Protection Association

NIOSH National Institute for Occupational Safety and Health

NTP National Toxicology Program

OSHA Occupational Safety and Health Administration

ppm Parts per million

SARA Superfund Amendment and Reauthorization Act

STEL Short-Term Exposure Limit

TSCA Toxic Substances Control Act

TWA Time - Weighted Average

U.N. United Nations

WHMIS Workplace Hazardous Materials Information System

> Greater Than

< Less Than

Revision Date: 11/10/08

Disclaimer

The information given and the recommendations made herein apply to our product(s) alone and not combined with any other product(s). Such are based on our research and on data from other reliable sources and are believed to be accurate. No guarantee of accuracy is made. It is the purchaser's responsibility before using any product to verify this data under their own operating conditions and to determine whether the product is suitable for their purposes.