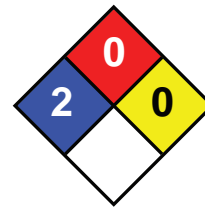


Safety Data Sheet



| | |
|---------------------|---|
| Health | 2 |
| Fire | 0 |
| Reactivity | 0 |
| Personal Protection | H |

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

| | |
|------------------------|---|
| Product Name: | COPPER SULFATE |
| Chemical Nature: | Acid Mixture |
| Trade Name: | Traditional Patina - Copper Sulfate |
| Product Use: | Oxidizing solution for non-ferrous metals |
| Distributor's Name: | Sculpt Nouveau |
| Distributor's Address: | 1155 Industrial Ave. Escondido, CA 92029 |
| Emergency Phone: | CHEMTREC 800-424-9300 U.S. and Canada; 1-703-527-3887 International |
| Business Phone: | 800-728-5787 |

2. HAZARDS IDENTIFICATION

| | | |
|---------------------------|---|--|
| Hazard Identification: | <p>This product is classified as a hazardous substance and as dangerous good according to the classification criteria of [NOHSC: 1088 (2004)] and ADG Code (Australia)</p> <p>DANGER! MAY BE HARMFUL IN CONTACT WITH SKIN. MAY CAUSE SKIN IRRITATION. MAY CAUSE SERIOUS EYE IRRITATION AND DAMAGE TO ORGANS THROUGH PROLONGED EXPOSURE.</p> <p><u>Hazard Statements</u> (H) H301 - Toxic if swallowed. H314 - Causes severe skin irritation and eye damage. H373 - May cause damage to organs through prolonged exposure. H272 - May intensify fire. H410 - Very toxic to aquatic life with long lasting effects.</p> <p><u>Precautionary Statements</u> (P): P262 - Do not get in eyes, on skin, or on clothing. P226 - Wash skin thoroughly after handling. P280 - Wear protective gloves/protective clothing, eye protection and face protection. P270 - Do not eat, drink or smoke when using this product. P273 - Avoid release to the environment. P302 + P352 - IF ON SKIN: Wash with plenty of soap and water. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice/attention.</p> | |
| Effects of Exposure: | <p>Eyes: Irritation upon direct contact.</p> <p>Skin: Slight irritation upon direct contact.</p> <p>Ingestion: Irritation to mucous membranes.</p> <p>Inhalation: Irritation in respiratory tract and mucous membranes.</p> | |
| Symptoms of Overexposure: | <p>Eyes: Redness, burning, irritation, and swelling around eyes.</p> <p>Skin: Redness, and irritation of skin.</p> <p>Ingestion: Possible nausea and vomiting.</p> <p>Inhalation: Coughing, sore throat, irritation in mucous membranes, difficulty breathing.</p> | |
| Acute Health Effects: | May cause irritation to mucous membrane and irritation to eyes. | |
| Chronic Health Effects: | None known. | |
| Target Organs: | Eyes, respiratory system. | |

3. COMPOSITION & INGREDIENT INFORMATION

| CHEMICAL NAME(S) | CAS No. | WEIGHT% | EXPOSURE LIMITS IN AIR (mg/m ³) ppm | | | | | | |
|------------------|-----------|----------|---|------|------|------|-------|------|------|
| | | | ACGIH | | OSHA | | NOHSC | | |
| | | | TWA | STEL | TLV | PEL | TWA | STEL | |
| Water | 7732-18-5 | 75 - 80% | None | None | None | None | None | None | None |
| Copper Sulfate | 7758-99-8 | 20 - 25% | 1 | NA | NA | NA | NF | NF | |

4. FIRST AID MEASURES

| | |
|--|--|
| First Aid: | <p>Ingestion: DO NOT INDUCE VOMITING. Contact nearest Poison Control Center for assistance and instructions. Seek immediate medical attention. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration.</p> <p>Eyes: If product gets in eyes, flush eyes thoroughly with large amounts of water for at least 15 minutes, holding eyelid(s) open to ensure complete flushing. If the eyes or face become swollen during or following use, consult a physician or emergency room immediately.</p> <p>Skin: Remove contaminated clothing and wash affected areas with soap and water. If discomfort or a skin reaction occurs, contact a physician. Do not wear contaminated clothing until clean.</p> <p>Inhalation: Remove victim to fresh air at once. Seek immediate medical attention if breathing is difficult.</p> |
| Medical Conditions Aggravated by Exposure: | Pre-existing dermatitis, other skin conditions, and disorders of the eyes or respiratory system or impaired kidney function may be more susceptible to the effects of this substance. |

5. FIREFIGHTING MEASURES

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| Fire and Explosion Hazard : | Non flammable. May react with metals to release hydrogen gas, which can form explosive mixtures with air. May intensify fire. Oxidizer. |
| Extinguishing Methods : | Use fire extinguishing media appropriate for surrounding materials. |
| Firefighting Procedures : | As with any fire, firefighters should wear appropriate protective equipment including a NIOSH approved or equivalent self contained breathing apparatus and protective clothing. Fight fires as for surrounding materials. Hazardous decomposition products may be released. Fire should be fought from a safe distance. Keep containers cool after fire is out. Prevent runoff from fire control or dilution from entering sewers, drains or natural waterway. |

6. ACCIDENTAL RELEASE MEASURES

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| Spills: | <p>Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate personal protective equipment (PPE). Use safety glasses and face shield, gloves and other protective clothing to prevent skin contact.</p> <p><u>Small Spills:</u> Wear appropriate protective equipment including gloves and protective eyewear. Use an inert material such as vermiculite or sand to soak up the product and place into a container for later disposal.</p> <p><u>Large Spills:</u> Keep incompatible materials away from spill. Stay upwind and away from spill or release. Isolate immediate hazard area and keep unauthorized personnel out of the area. Stop spill or release if it can be done with minimal risk. Wear appropriate protective equipment. Recover as much free liquid as possible and collect in acid resistant container. Use absorbent to pick up residue. Avoid discharging liquid into a sewer or surface waters.</p> |
|---------|---|

7. HANDLING & STORAGE INFORMATION

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|-----------------------------|--|
| Work and Hygiene Practices: | Avoid breathing mists or spray. Avoid eye and skin contact. Wear protective equipment when handling product. Keep out of the reach of children. Do not eat, drink or smoke when handling this product. Wash thoroughly after handling. Do not expose to heat and flame. Use only in ventilated areas. Immediately clean up and decontaminate any spills or residues. |
| Storage and Handling: | Use and store in a cool, dry, well ventilated location, away from heat and direct sunlight. Store in acid resistant containers. Keep containers covered when not in use. Avoid temperatures above 40°C (120°F). Keep away from incompatible substances (see section 10). Protect containers from physical damage. |
| Special Precautions: | Empty containers may retain hazardous product residues. Do not reuse empty containers for other purposes. |

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

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|---------------------------------------|--|
| Ventilation and Engineering Controls: | Use local or general exhaust ventilation to effectively remove and prevent buildup of vapors or mist generated from the handling of this product. Ensure appropriate equipment is available (eye wash station, sink, etc.). |
| Respiratory Protection: | In instances where vapors of this product are generated, and respiratory protection is needed, use only protection authorized by 29 CR 1910.134, applicable U.S. State regulations, or the Canadian CAS Standard Z94.4-93 and applicable standards of Canadian Province, EC member States, or Australia. |
| Eye Protection: | Safety glasses with side shields must be used when handling this product. A face shield is also recommended. |
| Hand Protection: | Wear protective, chemical-resistant gloves, (e.g., neoprene) when handling this product. |
| Body Protection: | A chemical resistant apron and protective clothing are recommended when handling or using this product. |

9. PHYSICAL & CHEMICAL PROPERTIES

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|-----------------------------|------------------|
| Appearance: | Blue liquid |
| Odor: | Odorless |
| Odor Threshold: | N/A |
| pH: | NA |
| Melting and Freezing Point: | N/A |
| Boiling Point/Range: | NA |
| Flashpoint: | Will not flash |
| Flammability Limits: | Not flammable |
| Vapor Pressure: | NA |
| Vapor Density: | NA |
| Relative Density: | NA |
| Solubility: | Complete (water) |
| Evaporation Rate: | NA |

10. STABILITY & REACTIVITY

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|---------------------------|---|
| Stability: | Stable at normal temperatures |
| Hazardous Decomposition: | Sulfur containing gases, copper compounds. |
| Hazardous Polymerization: | Will not occur |
| Conditions to Avoid: | Excessive heat and moisture |
| Incompatible Substances: | Oxidizers, and strong reducing agents, water reactive materials, Hydroxylamine, Hypobromite, Magnesium. |

11. TOXICOLOGICAL INFORMATION

| | | | | |
|------------------------------|--|-----------------|----------------|--|
| Routes of Entry: | Inhalation: Yes | Absorption: Yes | Ingestion: Yes | |
| Toxicity Data: | See Section 2 | | | |
| Acute Toxicity: | Copper Sulfate: LD ₅₀ (oral, rat) = 300 mg/kg | | | |
| Chronic Toxicity: | See Section 2 | | | |
| Suspected Carcinogen: | No suspected carcinogen is in this patina solution. | | | |
| Reproductive Toxicity: | No evidence of negative reproductive effects. | | | |
| Mutagenicity: | No evidence of a mutagenic effect. | | | |
| Embryotoxicity: | NA | | | |
| Teratogenicity: | NA | | | |
| Irritancy of Product: | See Section 2 | | | |
| Biological Exposure Indices: | NE | | | |
| Physician Recommendations: | Treat symptomatically | | | |

12. ECOLOGICAL INFORMATION

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|------------------------------|---|
| Environmental Stability | No data available |
| Effects on Plants & Animals: | Copper is accumulated by plants and animals, but it does not appear to biomagnify from plants to animals. This lack of biomagnification appears common with heavy metals. In air, copper aerosols (in general) have a residence time of 2 to 10 days in an unpolluted atmosphere and 0.1 to > 4 days in polluted, urban areas. |
| Effects on Aquatic Life: | Fish: Rainbow trout: LC ₅₀ = 0.1-2.5 mg/L; 96 Hr; Unspecified Harlequin fish: LC ₅₀ = 0.1-2.5 mg/L; 96 Hr; Unspecified Goldfish: LC ₅₀ = 0.1-2.5 mg/L; 96 Hr; Unspecified flea Daphnia: EC ₅₀ = 0.24 mg/L; 48 Hr; Unspecified In soil, copper sulfate is partly washed down to lower levels, partly bound by soil components, and partly oxidatively transformed. Copper has a strong affinity for hydrous iron and manganese oxides, clays, carbonate minerals, and organic matter. Sorption to these materials ... suspended in the water column & in the bed sediments, results in relative enrichment of the solid phase and reduction in dissolved levels. |

13. DISPOSAL CONSIDERATIONS

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|-------------------------|---|
| Waste Disposal: | Review current local, state and federal laws, codes, statutes and regulations to determine current status and appropriate disposal method for the ingredients listed in Section 2. Any disposal practice must be in compliance with local, state, and federal laws and regulations. Contact the appropriate agency for specific information. Treatment, transport, storage and disposal of hazardous waste must be provided by a licensed facility or waste hauler. |
| Special Considerations: | U.S EPA Hazardous Waste - Characteristic - Toxic (D010). Characteristic - Corrosive (D002) |

14. TRANSPORTATION INFORMATION

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|---|--|
| 49 CFR (GND) IATA (AIR) IMDG (OCN) TDGR (Canadian GND) ADR/RID (EU) SCT (MEXICO) ADGR (AUS) | UN3264 CORROSIVE LIQUID, ACIDIC INORGANIC, N.O.S. (Cupric Sulfate), 8, III |
|---|--|

15. REGULATORY INFORMATION

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|----------------------------------|--|
| SARA Reporting Requirements: | This product contains Copper Sulfate, substances subject to SARA Title III, section 313 reporting requirements. |
| SARA Threshold Planning Quantity | NA |
| TSCA Inventory Status: | CAS# 7758-99-8 is not on the TSCA Inventory. It is a hydrate and exempt from TSCA Inventory requirements, (40CFR720.3(u)(2)). |
| Federal and State Regulations: | This chemical is not present on state lists from CA, PA, MN, MA, FL, or NJ. California No Significant Risk Level: The chemical in this product is not listed. |
| Other Canadian Regulations: | CAS# 7758-99-8 is not listed on the DSL or NDSL list. This product has a WHMIS classification of D1B, D2A. |
| CERCLA Reportable Quantity: | Copper Sulfate 10 lbs. (4.536 kg) |
| Other Federal Requirements: | NA |
| Other Requirements: | The primary components of this product are not listed in Annex I of EU Directive 67/548/EEC. Corrosive, Harmful (C, Xn). |

16. OTHER INFORMATION

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|--------------------|---|
| Other Information: | DANGER! Components of this solution are dangerous and toxic. May be harmful if swallowed or inhaled. |
| Disclaimer: | This Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other government regulations must be reviewed for applicability to this product. To the best of Sculpt Nouveau's knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either expressed or implied, are provided. The information contained herein relates only to the specific product(s). If this product(s) is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition. |
| Prepared For: | Sculpt Nouveau 1155 Industrial Ave. Escondido, CA 92029 USA Tel: 760 432 8242 Fax: 760-741-1074 www.sculptnouveau.com |