

Safety Data Sheet



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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:	Blackened Copper
Chemical Name:	Patina Solution
Trade Name:	Traditional Concentrated Patina - Blackened Copper
Product Use:	Blackening patina for bronze, brass, and copper
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:	760 - 432 - 8242

2. HAZARDS IDENTIFICATION

Hazard Identification:	<p>Hazard Statements (H): H301 – Toxic if swallowed. H314 – Causes severe skins burns and eye damage. H373 – May cause damage to organs through prolonged or repeated exposure. H410 – Very toxic to aquatic life with long lasting effects.</p> <p>Precautionary Statements (P): P260 – Do not breathe dust/mist/fume/vapor/spray. P264 – Wash hands and exposed skin areas with soap and warm water thoroughly after handling. P270 – Do not eat, drink, or smoke when using this product. P273 – Avoid release to the environment. P280 – Wear protective gloves/protective clothing/eye protection/face protection. P301 + P330+P331 – IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. P302+P361+P354 – IF ON SKIN: Take off immediately all contaminated clothing. Immediately rinse with water for several minutes. P363 – Wash contaminated clothing before reuse. P321 – Specific treatment see section 4 (first aid) of this SDS. P304+P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing. P316 – Get emergency medical help immediately. P305+P354+P338 – IF IN EYES: Rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P319 – Get medical help if you feel unwell. P321 – Specific treatment see section 4 (first aid) of this SDS. P391 – Collect spillage P405 – Store locked up. P501 – Dispose of contents / container to an approved waste disposal plant.</p>	
Effects of Exposure:	<p>Eyes: Severe or permanent eye damage.</p> <p>Skin: Possible burns upon direct contact.</p> <p>Ingestion: Severe burns of mouth, throat, stomach.</p> <p>Inhalation: Severe irritation or burns in respiratory tract and mucous membranes.</p>	
Symptoms of Overexposure:	<p>Eyes: Redness, burning, irritation, and swelling around eyes.</p> <p>Skin: Redness, burning, itching, rash, blistering of skin.</p> <p>Ingestion: Nausea and vomiting, possible abdominal pain.</p> <p>Inhalation: Coughing, sore throat, irritation in mucous membranes, difficulty breathing.</p>	
Acute Health Effects:	May be harmful if inhaled. Material is very destructive to the tissue of the mucous membranes and upper respiratory tract. May be harmful if swallowed, causing burns. May be harmful if absorbed through skin.	
Chronic Health Effects:	May damage the nervous system, kidney and/or liver.	
Target Organs:	Eyes, skin, nervous system, kidneys, liver, respiratory system.	

3. COMPOSITION & INGREDIENT INFORMATION

CHEMICAL NAME(S)	CAS No.	%	EXPOSURE LIMITS IN AIR (mg/m ³) ppm						
			ACGIH		OSHA		NOHSC		
			TLV	STEL	TLV	STEL	IDLH	TWA	STEL
Water	7732-18-5	60-100	None	None	None	None	None	None	None
Selenious Acid	7783-00-8	1-5	(0-2)	NA	(0-2)	NA	NA	(0-2)	NF
Sulfuric Acid	7664-93-9	1-5	.2	NA	1	NA	15	1	NF
Cupric Sulfate	7758-99-8	1-5	(1)	NA	NF	NA	1000	(1)	NF
Phosphoric Acid	7664-38-2	7-13	(1)	(3)	NF	NA	1000	NF	NF
Hydrochloric Acid	7647-01-0	0-1	2	NA	NF	NA	50	NF	NF
Trade Secret - non hazardous		1-5	None	None	None	None	None	None	None

NA = Not Available; ND = Not Determined; NE = Not Established; NF = Not Found;

All WHMIS required information is included. It is located in appropriate sections based on the ANSI Z200.1-2010 format.

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

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. Thermal degradation may produce oxides of carbon, phosphorous, selenium and/or nitrogen, hydrocarbons, and/or derivatives. Fire should be fought from a safe distance. Keep containers cool after fire is out. Use water spray to cool fire exposed surfaces. Prevent runoff from fire control or dilution from entering sewers, drains or natural waterway.

6. ACCIDENTAL RELEASE MEASURES

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>Small Spills: 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>Large Spills: Keep incompatible materials (e.g., organics such as oil) 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 including respiratory protection as conditions warrant. 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>
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7. HANDLING & STORAGE INFORMATION

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 (e.g., local exhaust ventilation, fans), 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).
Special Precautions:	Empty containers may retain hazardous product residues. Do not reuse empty containers for other purposes.

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

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

Appearance:	Clear blue liquid
Odor:	Odorless
Odor Threshold:	NA
pH:	<1
Melting and Freezing Point:	NA
Boiling Point/Range:	>100°C (>212°F)
Flashpoint:	Will not flash
Flammability Limits:	Not flammable
Vapor Pressure:	NA
Vapor Density:	< 1.0 (air = 1.0)
Relative Density:	1.099
Solubility:	Complete
Evaporation Rate:	<1

10. STABILITY & REACTIVITY

Stability:	Stable at normal temperatures
Hazardous Decomposition:	Reaction with organics and strong reducing agents can produce organoselenides and hydrogen selenide. Thermal decomposition may produce selenium and phosphoric oxides.
Hazardous Polymerization:	Will not occur
Conditions to Avoid:	Excessive heat, shock, friction.
Incompatible Substances:	Cyanides, water-reactive substances, strong reducing agents, chlorinated cleaners, or sanitizers, combustible organic materials, most metals

11. TOXICOLOGICAL INFORMATION

Routes of Entry:	Inhalation: Yes	Absorption: Yes	Ingestion: Yes	
Toxicity Data:	Cupric Sulfate: LD50 (oral, rat)= 300 mg/kg Phosphoric Acid: LD50 (oral, rat) = 1530 mg/kg; LD50 (oral, rat) = 4640 mg/kg; Sulfuric Acid: LD50 (oral, rat) = 2140 mg/kg. Hydrochloric Acid: LD50 (oral, rat)=238-277 mg/kg; LD50 (dermal, rabbit)=5010 mg/kg; LD50(inhalation, rat) = 3124 ppm/hr			
Acute Toxicity:	See section 2			
Chronic Toxicity:	See section 2			
Suspected Carcinogen:	NA			
Reproductive Toxicity:	This product is not reported to cause reproductive toxicity in humans			
Mutagenicity:	This product is not reported to cause mutagenic effects in humans			
Embryotoxicity:	This product is not reported to cause embryotoxic effects in humans			
Teratogenicity:	This product is not reported to cause teratogenic effects in humans			
Irritancy of Product:	See section 2			
Biological Exposure Indices:	NE			
Physician Recommendations:	Treat symptomatically			

12. ECOLOGICAL INFORMATION

Environmental Stability	No data available
Effects on Plants & Animals:	No data available
Effects on Aquatic Life:	Very toxic to aquatic life with long lasting effects. Phosphoric Acid: LC50 (Daphnia magna, 12h) = 4.6 mg/L

13. DISPOSAL CONSIDERATIONS

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 - Corrosive (D002), - Toxic (D010)

14. TRANSPORTATION INFORMATION

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. (Selenious Acid, Phosphoric Acid), 8 III
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15. REGULATORY INFORMATION

SARA Reporting Requirements:	This product contains <u>Selenious Acid</u> , <u>Cupric Sulfate</u> and <u>Phosphoric Acid</u> , <u>Sulfuric Acid</u> , and <u>Hydrochloric Acid</u> , substances subject to SARA Title III, section 313 reporting requirements.
SARA Threshold Planning Quantity	NA
Federal and State Regulations:	Selenious Acid is found on the following state criteria lists: Florida Toxic Substances List, Massachusetts Hazardous Substances List, Minnesota Hazardous Substances List, Pennsylvania Right-to-Know List, and Wisconsin Hazardous Substances List. Phosphoric Acid is found on the following state criteria lists: FL, MA, MN, PA.No other ingredients in this product, present in a concentration of 1.0% or greater, are listed on any of the following state criteria lists: California Proposition 65, Delaware Air Quality Management List, Florida Toxic Substances List, Massachusetts Hazardous Substances List, Michigan Critical Substances List, Minnesota Hazardous Substances List, New Jersey Right-to-Know List, New York Hazardous Substances List, Pennsylvania Right-to-Know List, Washington Permissible Exposures List, Wisconsin Hazardous Substances List. Cupric Sulfate is found on the following state criteria lists: MA and PA Sulfuric Acid is found on the following state criteria lists: MA, and PA. California Proposition 65 list Hydrochloric Acid is found on the following state criteria lists: MA and PA
CERCLA Reportable Quantity:	<u>Selenious Acid</u> : 10 lbs. (4.54 kg); <u>Cupric Sulfate</u> : 10 lbs (4.54 kg); <u>Phosphoric Acid</u> : 5,000 lbs (2,270 kg); <u>Hydrochloric Acid</u> : 5,000 lbs (2,270 kg)
Other Federal Requirements:	NA
WHMIS Canada:	This product has been classified according to the hazard criteria of the HPR and the SDS contains all of the information required by the HPR. The components of this product are listed on the DSL/NDSL. None of the components of this product are listed on the Priorities Substances List. WHMIS Class E (Corrosive Material). WHMIS Class D1 (Materials Causing Immediate and Serious Toxic Effects).
Other Requirements:	This product is found on the following inventory lists: Australia - AICS, China - IECSC, Europe - ELINCS/EINEC, Japan - ENCS; Korea - KECI; New Zealand - NZIoC; Philippines - PICCS; USA - TSCA

16. OTHER INFORMATION

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.
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