

Safety Data Sheet



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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:	JADE GREEN
Chemical Nature:	Patina Solution
Trade Name:	Traditional Patina - JADE GREEN
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) DANGER! MAY BE HARMFUL IN CONTACT WITH SKIN. MAY CAUSE SKIN IRRITATION. MAY CAUSE SERIOUS EYE IRRITATION. <u>Hazard Statements:</u> H314 Causes severe skin burns and eye damage. H335 May cause respiratory irritation. H400 Very toxic to aquatic life. <u>Precautionary Statements (P):</u> P260 - Do not breathe fumes, mist, vapors or spray. P264 - Wash hands thoroughly after handling P271 - Use only outdoors or in a well-ventilated area. P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing, eye protection and face protection. <u>Response:</u> P301 +PP330 +P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P305 +P351 +P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. P405 Store locked up.</p>	
Effects of Exposure:	<p>Eyes: Severe irritation upon direct contact. Skin: Slight irritation upon direct contact. Ingestion: Severe irritation to mucous membranes. Inhalation: Irritation to respiratory tract and mucous membranes.</p>	
Symptoms of Overexposure:	<p>Eyes: Redness, burning, irritation, and swelling around eyes. Skin: Redness, and irritation of skin. Ingestion: Possible nausea and vomiting. Inhalation: Coughing, sore throat, irritation in mucous membranes, difficulty breathing.</p>	
Acute Health Effects:	Causes 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	70 - 90%	None	None	None	None	None	None
Ammonium Hydroxide	12069-69-1	5 - 20%	17	24	NA	35	NA	NA
Cupric Acetate	6046-93-1	5 - 20%	.2	NA	.2	NA	NA	NA
Ammonium Chloride	12125-02-9	1 - 10%	10	20	NA	NA	NA	NA
Non Hazardous Trade Secret	NA	5 - 20%	NA	NA	NA	NA	NA	NA

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. Rinse mouth immediately after ingestion. Give lots of water to drink. Immediately consult a doctor and call Poison Control.</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. Cover eyes aseptically. Do not apply neutralizing agents. Take victim to an ophthalmologist.</p> <p>Skin: Wash immediately with plenty of water (15 minutes). Do not apply (chemical) neutralizing agents. Remove clothing while washing. Do not remove clothing if it sticks to the skin. Cover wounds with sterile bandage. Consult a doctor.</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 : Reactivity	On heating: release of toxic/corrosive/combustible gases/vapors (ammonia). On burning: release of toxic and corrosive gases/vapors (nitrous vapors). Concentrated solution violent to explosive reaction with many compounds e.g.: with some halogens compounds, with strong oxidizers and with some acids.
Extinguishing Methods :	Use fire extinguishing media appropriate for surrounding materials. No unsuitable extinguishing media known.
Firefighting Procedures :	Cool tanks/drums with water spray. Move them into safety. Do not move the load if exposed to heat. Dilute toxic gases with water spray. Take account of toxic-fighting water. Use water moderately and if possible collect or contain it. Do not enter fire area without proper protective equipment, including respiratory protection.

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><u>Small Spills:</u> Wear appropriate protective equipment including gloves and protective eyewear. Use an inert material such as powdered limestone 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>
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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, 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. Keep locked up.
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. Wear a gas mask with filter type K. For high vapor concentration use a self-contained respirator.
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:	Green liquid
Odor:	Pungent odor
Odor Threshold:	5 - 50 ppm (Ammonium hydroxide)
pH:	3.5
Melting and Freezing Point:	N/A
Boiling Point/Range:	>60°C (>140°F)
Flashpoint:	NA
Flammability Limits:	NA
Vapor Pressure:	NA
Vapor Density:	NA
Relative Density:	.88 - 0.91 (Ammonium hydroxide)
Solubility:	Complete
Evaporation Rate:	Similar to water (water = 1)

10. STABILITY & REACTIVITY

Stability:	Stable at normal temperatures and conditions.
Hazardous Decomposition:	Decomposition of this product may produce gaseous ammonia.
Hazardous Polymerization:	Has not been reported.
Conditions to Avoid:	Not available
Incompatible Substances:	Strong acids, oxidizers, halogens, silver nitrate.

11. TOXICOLOGICAL INFORMATION

Routes of Entry:	Inhalation: Yes	Absorption: Yes	Ingestion: Yes	
Toxicity Data:	Can cause skin burns and severe eye damage.			
Acute Toxicity:	<u>Ammonium Hydroxide</u> : Acute oral toxicity (LD ₅₀): 350 mg/kg (Rat) (Calculated value for the mixture)			
Chronic Toxicity:	<u>Ammonium Hydroxide</u> : On continuous repeated exposure/contact: Coughing, irritation of the respiratory tract. Possible laryngeal spasm. Following symptoms may appear later: Risk of lung edema and pneumonia.			
Suspected Carcinogen:	Not classified			
Reproductive Toxicity:	Not classified			
Mutagenicity:	<u>Ammonium Chloride</u> : May affect genetic material			
Embryotoxicity:	NA			
Teratogenicity:	Not classified			
Irritancy of Product:	<u>Ammonium Hydroxide</u> : Irritating to respiratory tract and nasal mucous membranes. Irritating to eye tissue. Possible irritation with skin contact.			
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. Toxic to invertebrates (Daphnia). May cause eutrophication. Highly toxic to plankton. pH shift. Inhibition of activated sludge. <u>Ammonium Hydroxide</u> : LC ₅₀ fishes; 1: 0.16 - 1.1 mg/l (96 h: Salmo gairdneri (Oncorhynchus mykiss); Solution ≥50%). LC ₅₀ other aquatic organisms; 1 - 10 mg/l (96 h; Solution ≥50%). LC ₅₀ fish 2, 0.75 - 3.4 mg/l (96 h: Pimephales promelas; Solution ≥50% water). TLM fish 1; 47 ppm (48 h: Salmo gairdneri (Oncorhynchus mykiss); cool water. TLM fish 2; 34 ppm (48 h; Salmo gairdneri (Oncorhynchus mykiss); warm water). TLM other aquatic organisms 1; 20 ppm (100 h: Daphnia magna). Threshold limit other aquatic organisms 2; 0.0012 mg/l (Oncorhynchus gorbusha; Solution ≥50%).

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)

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. (Cupric Acetate), 8, III
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15. REGULATORY INFORMATION

SARA Reporting Requirements:	This product contains <u>Ammonium Hydroxide</u> , a substance subject to SARA Title III, section 313 reporting requirements.
SARA Threshold Planning Quantity	NA
TSCA Inventory Status:	The components of this product are listed on the TSCA Inventory.
Federal and State Regulations:	<u>Ammonium Hydroxide</u> is found on the following state criteria lists: Massachusetts Right-to-Know Components List, Pennsylvania Right-to-Know Components List, and New Jersey Right-to-Know Components List. <u>Ammonium Chloride</u> is on the Illinois chemical safety act, New York reporting list, Rhode Island RTK hazardous substances list, Massachusetts spill list, New Jersey spill list, Louisiana spill reporting list, and California Director's List of Hazardous Substances, TSCA 8(b) inventory.
Other Canadian Regulations:	This product has been classified according to the hazard criteria of the CPR and the SDS contains all of the information required by the CPR. The components of this product are listed on the DSL/NDL. 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).
CERCLA Reportable Quantity:	<u>Ammonium Hydroxide</u> : 1000 lbs. (453.6 kg) <u>Ammonium Chloride</u> : 5000 lbs. (2268 kg)
Other Federal Requirements:	NA
Other Requirements:	No additional information available.

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.
Prepared For:	Sculpt Nouveau 1155 Industrial Ave. Escondido, CA 92029 USA Tel: 760 432 8242 Fax: 760-741-1074 www.sculpnouveau.com