SCULPT NOUVEAU

Safety Data Sheet

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:	**SLATE BLACK**
Chemical Name:	Patina Solution
Trade Name:	Traditional Patina - Slate Black
Product Use:	Blackening for iron and steel
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:	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! TOXIC IF SWALLOWED. MAY CAUSE SEVERE SKIN BURNS OR EYE DAMAGE. MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE. MAY INTENSIFY FIRE. OXIDIZER** Hazard Statements (H): H301 - Toxic if swallowed. H314 - Can cause severe skin burns and eye damage. H373 - May cause damage to organs through prolonged or repeated exposure. H272 - May intensify fire: oxidizer. H410 - Very toxic to aquatic life with long lasting effects. Precautionary Statements (P): P220 - Keep/Store away from clothing/combustible materials. P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing, eye protection and face protection. P310 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P501 - Dispose of contents/container to an approved waste disposal plant.
Effects of Exposure:	Eyes: Severe or permanent eye damage. Skin: Possible burns upon direct contact. Ingestion: Severe burns of mouth, throat, stomach. Inhalation: Severe irritation or burns in respiratory tract and mucous membranes.
Symptoms of Overexposure:	Eyes: Redness, burning, irritation, and swelling around eyes. Skin: Redness, burning, itching, rash, blistering of skin. Ingestion: Nausea and vomiting, possible abdominal pain. Inhalation: Coughing, sore throat, irritation in mucous membranes, difficulty breathing.
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 is 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	
Cupric Nitrate	3251-23-8	1-5	(1)	NA	(1)	NA	NA	NF	NF	
Ammonia Bifluoride	1341-49-7	1-5	(2.5)	(2)	NA	(2.5)	NA	NF	NF	
Selenium Dioxide	7446-08-4	1-5	(.2)	(.2)	(.2)	NA	(.2)	NA	NA	
Proprietary Non Hazardous		1-15								

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:	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.
	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.
	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 cleaned.
	Inhalation:	Remove victim to fresh air at once. Seek immediate medical attention if breathing is diffucult.
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 product 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:	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. 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. 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.

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:	Blue translucent liquid
Odor:	Slight odor
Odor Threshhold:	N/A
pH:	<1
Melting and Freezing Point:	N/A
Boiling Point/Range:	>109°C (>228°F)
Flashpoint:	Will not flash
Flammability Limits:	Not flammable
Vapor Pressure:	NA
Vapor Density:	< 1.0 (air = 1.0)
Relative Density:	1.055
Solubility:	Complete
Evaporation Rate:	< 1.0 (ethyl ether = 1.0)

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 oxides.
Hazardous Polymerization:	Will not occur
Conditions to Avoid:	Excessive heat.
Incompatible Substances:	This product may react with strong acids and strong reducing agents, organic compounds and cyanides. Chlorinated cleaners or sanitizers, most metals.

11. TOXICOLOGICAL INFORMATION

Routes of Entry:	Inhalation: Yes	Absorption: Yes	Ingestion: Yes	
Toxicity Data:	Ammonia Bifluoride: LD_{50} (oral, rat) = 60 - 100 mg/kg: Oral LD_{50} (guinea pig) = 150 mg/kg; Selenium Dioxide: LD_{50} (oral, rat) = 68 mg/kg: LD_{50} (oral, rabbit) = 68 mg/kg; Cupric Nitrate: LD_{50} (oral, rat) = 940 mg/kg			
Acute Toxicity:	See section Section 2 for acute toxicity			
Chronic Toxicity:	See section Section 2 for chronic toxicity			
Suspected Carcinogen:	NA			
Reproductive Toxicity:	This product has toxic effects for reproduction (Ammonia Bifluoride).			
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:	Acute toxicity to aquatic life. Ammonia Bifluoride: Fishes, Salmo Gairdneri, LC_{50}, 96h = 51 mg/L Crustaceans, Mysidopsis, EC_{50}, 96 h, 10.5 mg/l; Daphnia Magna, EC_{50}, 48 h, 97 mg/l Cupric Nitrate: Fish, LC_{50}, .917 mg/l 96 hours est.; Crustacea, Daphnia, EC_{50}, 0.2877 mg/l 48 hours est.

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 - Toxic (D010). 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. (AMMONIA BIFLUORIDE, CUPRIC NITRATE), Class 8, PG III

15. REGULATORY INFORMATION

SARA Reporting Requirements:	This product contains Ammonia Bifluoride & Cupric Nitrate 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:	Ammonia Bifluoride is found on the following state criteria lists: New Jersey Worker and Comminity Right to Know Act, (New Jersey Statute Annotated Section 34:5A-5); Pennsylvania Worker and Community Right to Know Law (34 Pa. Code Chapter301-323) Cupric Nitrate is found on the following state criteria lists: Massachusetts Right to Know Substance List; New Jersey Worker and Community Right to Know Act (500 lbs); Pennsylvania Right to Know Hazardous Substances; Rhode Island Right to Know, California Proposition 65 - California Safe Drinking Water and Toxic Enforcement Act of 1986: This material is NOT known to contain any chemicals currently listed as carcinogens or reproductive toxins.
Other Canadian Regulations:	Canada. Canadian Environmental Protection Act (CEPA). WHMIS Ingredient Disclosure List (Can. Gaz., Part II, Vol. 122, No.2) D2B - Toxic Material Causing Other Toxic Effects, E - Corrosive Material.
CERCLA Reportable Quantity:	40 CFR 302.4, 40 CFR 302 - not regulated.
Other Federal Requirements:	NA
Other Requirments:	NA

16. OTHER INFORMATION

Other Information:	DANGER! POISON! CORROSIVE. May be fatal if swallowed or harmful if inhaled. Can cause severe burns to eyes and irritation to skin. OXIDIZER. Combustible materials that contact this product my ignite more easily and burn more intensely. Avoid shock, heat, and friction.
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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