

# Safety Data Sheet



Health	2
Fire	0
Reactivity	0
Personal Protection	H

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:	<b>FERRIC NITRATE/FERRIC CHLORIDE PATINA</b>
Chemical Nature:	Acid Mixture
Trade Name:	Traditional Patina - FERRIC NITRATE/FERRIC CHLORIDE PATINA
Product Use:	Oxidizing solution for non-ferrous metals
Distributor's Name:	Sculpt Nouveau, LLC
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>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)  <b>DANGER! MAY BE HARMFUL IN CONTACT WITH SKIN. MAY CAUSE SKIN IRRITATION. MAY CAUSE SERIOUS EYE IRRITATION.</b>  <u>Hazard Statements</u> May intensify fire. Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. Very toxic to aquatic life and with long lasting effects.  <u>Precautionary Statements (P):</u> 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: Severe or permanent eye damage.                  Skin: Burns upon direct contact.                  Ingestion: Severe burns of mouth, throat, stomach.                  Inhalation: Severe irritation or burns in respiratory tract and mucous membranes, Possible lung damage.</p>	
Symptoms of Overexposure:	<p>Eyes: Redness, burning, irritation, and swelling around eyes.                  Skin: Redness, burning, itching, rash, blistering of skin.                  Ingestion: Nausea, vomiting, severe abdominal pain.                  Inhalation: Coughing, swelling of throat, irritation in mucous membranes, difficulty breathing.</p>	
Acute Health Effects:	May be harmful if inhaled. May be harmful if swallowed. Causes 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, spleen, blood forming organs, bones.	

## 3. COMPOSITION & INGREDIENT INFORMATION

CHEMICAL NAME(S)	CAS No.	WEIGHT%	EXPOSURE LIMITS IN AIR (mg/m <sup>3</sup> ) ppm					
			ACGIH		OSHA		NOHSC	
			TWA	STEL	TLV	STEL	TWA	STEL
Water	7732-18-5	70 - 100%	None	None	None	None	None	None
Ferric Nitrate	7782-61-8	1- 15%	1	NA	1	NA	NF	NF
Ferric Chloride	7705-08-0	1- 15%	1	NE	1	NE	1	NE

## 4. FIRST AID MEASURES

First Aid:	<p><b>Ingestion:</b> DO NOT INDUCE VOMITING. Contact nearest Poison Control Center for assistance and instructions. Consult a physician. Rinse mouth with water. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration.</p> <p><b>Eyes:</b> 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><b>Skin:</b> 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><b>Inhalation:</b> 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-combustible, substance itself does not burn but may decompose upon heating to produce irritating, corrosive and/or toxic fumes. Strong oxidizer.
Extinguishing Methods :	Use agent most appropriate to extinguish surrounding fire. Contact professional fire-fighters immediately. Cool containers with flooding quantities of water until well after fire is out. For small fires, do NOT use dry chemicals, carbon dioxide, halon or foams. USE WATER ONLY. For large fires flood fire with water from a distance.
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

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>
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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.
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:	Brownish liquid
Odor:	Odorless
Odor Threshold:	N/A
pH:	N/A
Melting and Freezing Point:	Melting point range: 47°C (117°F)
Boiling Point/Range:	>125°C (>257°F)
Flashpoint:	Will not flash
Flammability Limits:	Not flammable
Vapor Pressure:	NA
Vapor Density:	< 1.0 (air = 1.0)
Relative Density:	1.68 (water)
Solubility:	Soluble in water
Evaporation Rate:	Negligible

## 10. STABILITY & REACTIVITY

Stability:	Stable at normal temperatures
Hazardous Decomposition:	Nitrogen oxides, iron oxides, irritating and toxic fumes and gases
Hazardous Polymerization:	Has not been reported
Conditions to Avoid:	Not available
Incompatible Substances:	Organic materials, powdered metals, reducing agents

## 11. TOXICOLOGICAL INFORMATION

Routes of Entry:	Inhalation: Yes	Absorption: Yes	Ingestion: Yes	
Toxicity Data:	NA			
Acute Toxicity:	Ferric Nitrate oral rat (LD <sub>50</sub> ): 3250 mg/kg; Ferric Chloride oral mouse (LD <sub>50</sub> ): 1300 mg/kg, dermal rabbit (LD <sub>50</sub> ) - >2000 mg/kg. Inhalation: No data available.			
Chronic Toxicity:	See Section 2			
Suspected Carcinogen:	Ferric Nitrate is possibly carcinogenic to humans			
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 produce 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:	<u>Ferric Chloride</u> : EC50 - Daphnia magna (water flea) - 9.6 mg/l - 48 h, LC50 - Pimephales promelas - 21.84 mg/l - 96 h

## 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:	US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3

## 14. TRANSPORTATION INFORMATION

49 CFR (GND) IATA (AIR) IMDG (OCN) TDGR (Canadian GND) ADR/RID (EU) SCT (MEXICO) ADGR (AUS)	UN2582, FERRIC CHLORIDE SOLUTION, 8, III
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## 15. REGULATORY INFORMATION

SARA Reporting Requirements:	This product contains Ferric Nitrate, a substance subject to SARA Title III, sections 311 and 312 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>Ferric Nitrate</u> can be found on the following state Right To Know lists: California, (listed as Iron Salts - soluble), Pennsylvania, (listed as Iron Salts - soluble), Minnesota, (listed as Iron Salts - soluble) <u>Ferric Chloride</u> can be found on the following state Right To Know lists: Massachusetts, Pennsylvania and New Jersey.
Other Canadian Regulations:	This product has a WHMIS classification of C, D2B. This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by those regulations. CAS# 7782-61-8 (listed as Iron salts (soluble)) is listed on the Canadian Ingredient Disclosure List.
CERCLA Reportable Quantity:	The chemical in this material does not have an RQ.
Other Federal Requirements:	NA
Other Requirements:	N/A

## 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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