



MATERIAL SAFETY DATA SHEET GREEN PATINA *

I PRODUCT IDENTIFICATION

TRADE NAME (AS LABELED): **JAX GREEN PATINA**

CHEMICAL NAMES, COMMON NAMES: NONE

SYNONYMS: NONE

MANUFACTURER'S NAME: JAX Chemical Company, Inc.

ADDRESS: 78-11 267th Street, Floral Park, New York 11004

BUSINESS PHONE: 718-347-0057

II HAZARDOUS INGREDIENTS

CHEMICAL NAME	CAS #	% w/w	EXPOSURE LIMITS IN AIR	
			TLV ACGIH	PEL OSHA
Ammonium Chloride*	12125-02-9	4-8	10 mg/m ³ (fume)	none
Copper Sulfate*	7758-98-7	10-14	1 mg(Cu)/m ³	1 mg(Cu)/m ³

THE REMAINING 78 to 86 % INGREDIENTS ARE NON-HAZARDOUS

SARA REPORTING REQUIREMENTS: THE CHEMICAL(S), LISTED IN THE HAZARDOUS INGREDIENTS SECTION, WHICH ARE MARKED WITH AN (*) ARE SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT.

III PHYSICAL PROPERTIES

VAPOR DENSITY: NO DATA

SPECIFIC GRAVITY: 1.05

SOLUBILITY IN WATER: SOLUBLE

VAPOR PRESSURE, mm Hg @ 20 C: NO DATA

APPEARANCE & COLOR: BLUE LIQUID pH: 3.3

EVAPORATION RATE (WATER = 1): SIMILAR TO WATER

MELTING POINT or RANGE: LESS THAN 32° F

BOILING POINT: GREATER THAN 212° F

HOW TO DETECT THIS SUBSTANCE (warning properties): At room temperature this product is a blue odorless liquid. No unusual warning properties.

IV FIRE and EXPLOSION

THIS PRODUCT IS NON-FLAMMABLE AND NON-COMBUSTIBLE

FLASH POINT, F (method): N/A

AUTOIGNITION TEMPERATURE, F: N/A

FLAMMABLE LIMITS in air by volume, %: lower N/A upper N/A

FIRE EXTINGUISHING MATERIALS:

water spray: OK carbon dioxide: OK foam: OK

dry chemical: OK halon: OK other:

SPECIAL FIRE FIGHTING PROCEDURES: If involved in fire, use water spray. Fire Fighters must use Self Contained Breathing Apparatus.

UNUSUAL FIRE & EXPLOSION HAZARDS: Product may decompose at high temperatures to form toxic gases.

===== V HEALTH HAZARD INFORMATION =====

SYMPTOMS OF OVER EXPOSURE by route of exposure:

INHALATION: Upper respiratory irritation.

CONTACT WITH SKIN or EYES: Irritation and burns to skin and eyes.

SKIN ABSORPTION: This product does not skin absorb to any appreciable degree.

INGESTION: Irritation or burns to the GI tract, nausea, vomiting.

INJECTION: Local irritation or burns at the site of injection, possible systemic injury depending on dose.

HEALTH EFFECTS OR RISKS FROM EXPOSURE An explanation in lay terms.

ACUTE: This product cause may reddening, irritation, or burns to the eyes or skin. Irritation to the nose or throat may occur if you breath the product vapors. Ingestion will cause various levels of GI distress from upset stomach to severe vomiting.

CHRONIC: Long term exposure to this product to may cause severe and/or persistent irritation or burns to the eyes, skin, nose or throat. Copper has been shown to cause genetic damage (mutations) to some test animals.

FIRST AID: EMERGENCY PROCEDURES:

If spilled on skin or eyes, immediately begin decontamination with running water. Remove exposed or contaminated clothing, taking care not to contaminate eyes. Victim & rescuers must seek immediate medical attention. If chemical is in eyes, open victim's eyes while under gentle running water. Use sufficient force to open eye lids. Have victim "roll" eyes. Minimum flushing is for 15 minutes. If chemical is inhaled, remove victim to fresh air and use artificial respiration to support vital functions. Remove or cover gross contamination to avoid exposure to rescuer's. If chemical is swallowed, CALL PHYSICIAN OR POISON CONTROL CENTER FOR MOST CURRENT INFORMATION. If professional advice is not available, induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or can not swallow.

Victim of chemical exposure and all rescuers must be taken for medical attention. Take copy of label and MSDS to physician or health professional with victim.

SUSPECTED CANCER AGENT?

This product's ingredient's are / are not found on the following lists:

<u>OSHA Z-2</u>	<u>NTP</u>	<u>IARC</u>
NO	NO	NO

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Any preexisting skin irritation or dermatitis can be aggravated by exposure to this product. Upper respiratory disfunction may also be aggravated by inhalation of the vapors of this product.

RECOMMENDATIONS TO PHYSICIANS: Treat symptoms of exposure.

===== VI REACTIVITY DATA =====

STABILITY: Stable under normal conditions.

CONDITIONS TO AVOID: NONE

MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE: Copper Sulfate can react violently with hydroxylamine and magnesium.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID: N/A

===== VII SPILL, LEAK, and DISPOSAL INFORMATION =====

SPILL & LEAK RESPONSE: Uncontrolled releases should be responded to using training people and pre-planned procedures. Proper protective equipment should be used. In case of a spill, clear the affected area, protect people, and respond with trained personnel. Minimum PPE should be hard hat with face shield, splash goggles, respiratory protection (SCBA, unless conditions warrant lower protection), hand and body protection, and chemical protective boots.

PREPARING WASTES FOR DISPOSAL: Waste disposal must be in accordance with appropriate federal, state, and local regulations. This chemical, if unaltered by the handling, may be disposed of by standard industrial waste water treatment process.

===== VIII SPECIAL HANDLING INFORMATION =====

VENTILATION & ENGINEERING CONTROLS: Use ventilation adequate to keep the airborne concentration below the TLV or the PEL (which ever is less) of the hazardous constituents.

RESPIRATORY PROTECTION: If ventilation is not adequate to reduce expose to this produce to a safe level, supplied air or respirator with approved NIOSH cartridge must be used.

EYE PROTECTION: Chemical splash goggles. HAND PROTECTION: Chemical Resistant gloves.

BODY PROTECTION: Chemical resistant apron or fully body protect if the potential for whole body contamination exists.

WORK PRACTICES & HYGIENE PRACTICES: Observe all applicable and reasonable work practices consistent with the use of the product. Wash thoroughly with soap and water after each use.

STORAGE & HANDLING PRACTICES: Store in tightly closed container in cool dry location, protected from environmental extremes.

===== IX LABELING =====

LABELING (Precautionary Statements): Warning! Keep out of reach of children harmful if ingested. Contact with eyes or skin may cause irritation. Avoid contact with eyes, skin, food, cooking and eating utensils, clothing. Do not inhale fumes or vapors. Wear splash goggles and rubber gloves when using. Only use in a well ventilated area.

DOT LABEL(S): NONE

===== PREPARED BY =====

CHEMICAL SAFETY ASSOCIATES, Inc. 8388 Vickers St. San Diego, CA 92111
619/565-0302

DATE OF PREPARATION: October 19, 1989



MASTER METAL FINISHING SOLUTIONS

COLORANTS

JAX Green Patina

Produces a permanent, authentic, antique green finish on copper, brass and bronze. Available in pints, quarts and gallons.

JAX Gold Finish

Produces a simulated gold finish on brass, silver and aluminum. Available in pints, quarts and gallons.

DARKENERS

JAX Brown Brass, Bronze and Copper Darkener

Produces an antique brown finish on brass, bronze and copper. Available in pints, quarts and gallons.

JAX Brown-Black Brass, Bronze and Copper Darkener

Produces an antique brown-black finish on brass, bronze and copper. Available in pints, quarts and gallons.

JAX Black Brass, Bronze and Copper Darkener

Produces an antique black finish on brass, bronze and copper. Available in pints, quarts and gallons.

JAX Flemish Gray-Black Brass, Bronze and Copper Darkener

Produces an antique Flemish, gray-black finish on brass, bronze and copper. Available in pints, quarts and gallons.

BLACKENERS

JAX Silver Blackener

Produces a dark, black antique finish on silver and gold. Available in pints, quarts and gallons.

JAX Pewter Black

Produces a dark, black antique finish on pewter, lead, brass, bronze, copper, nickel, tin-lead alloys and solders. Available in pints, quarts and gallons.

JAX Iron, Steel and Nickel Blackener

Produces an antique, metallic black finish in seconds on iron, steel, cast iron and nickel. Available in pints, quarts, and gallons.

JAX MASTER METAL PLATING SOLUTIONS

JAX Silver Plating Solution

Plates pure silver onto copper, brass, bronze and silver. Available in half-pints and pints.

JAX Copper Plating Solution

Instantly plates copper onto iron, steel, brass and solders. Available in pints, quarts and gallons.

JAX MASTER METAL CLEANING SOLUTIONS

JAX Rust Remover

A rust remover and an effective pre-paint primer for iron and steel. Available in pints, quarts and gallons.

JAX Rust Preventer

Protects iron and steel from rust. Available in pints, quarts and gallons.

JAX Tarnish Preventer

Prevents tarnish on clean brass, bronze and copper. Available in pints, quarts and gallons.

JAX Instant Silver Cleaner

A heavy-duty cleaner that removes tarnish and oxidation from the blackest silver. Available in pints, quarts and gallons.

JAX Instant Brass and Copper Cleaner

A heavy-duty cleaner that removes tarnish and oxidation from the blackest copper, brass and bronze. Available in pints, quarts and gallons.

JAX Brass, Copper and Gold Cleaner

A light-duty cleaner for delicate metals. Removes tarnish and surface contamination from fine gold finishes, bronzes, lamps, lighting fixtures, jewelry and antiques. Contains no abrasives. Leaves no residue. Available in pints, quarts and gallons.

JAX Brass, Copper, Gold and Marble Cleaner

A heavy-duty cleaner that removes tarnish, surface dirt, old lacquer and grease from brass, bronze and copper, yet safe for use on gold and marble. Available in pints, quarts and gallons.

JAX MASTER METAL POLISHING SOLUTIONS

JAX Silver Cleaner and Polish

Chemically cleans and polishes the blackest silver in one application. Does not strip surface to a raw, dull finish. Incorporates a special polish that will not harm or streak the most delicate surfaces. Available in pints and quarts.

JAX Metal Cleaner Polish

Chemically cleans and polishes tarnished brass, bronze, copper, pewter, nickel and steel. Removes oxidation, surface dirt, oil and fingerprints. Available in pints and quarts.

ALL JAX METAL FINISHING, CLEANING AND POLISHING SOLUTIONS:

- Are used and recommended by numerous sculptors, architects and craftsmen.
- Produce authentic, consistent results.
- Are safe and easy to use.
- Require no heat or electricity.
- React within seconds.
- Are non-flammable.
- Are water-based and contain no sulfur.
- Are fully guaranteed.



Chemical Company, Inc. 78-11 267th Street, New York 11004 (718) 347-0057