

CURATOR VERDIGRIS SOLUTION

Product Description

A cold patination treatment which imparts a blue/green patina (verdigris) to brass, copper, bronze and gun metal. This replicates the patina which occurs naturally to these metals due to atmospheric corrosive reaction.

Directions

Remove any metal lacquer using paint stripper first. Thoroughly remove and clean any grease or oil, including fingerprints and wipe dry. Proper preparation of the surface is essential. Dilute Verdigris Solution with 10 parts water, and either apply directly onto the item using a cotton wool pad or brush, or immerse items for a minimum of 5 to 10 minutes in a suitable container. Withdraw the item from liquid and allow the solution to dry on the surface. It is this drying phase that imparts the greening effect. The longer the drying time, the better the effect. This treatment will produce a light green patina which may be darkened and made more even by repeating the process, ensuring the work is thoroughly dried between immersions.

(1) **IDENTIFICATION**

Product Name: Curator Verdigris Solution
Supplier: Horological Solvents,
Barnside, 194 Wellington Road, Bury, Lancs. BL9 9AH
Tel: 0161 764 2741

(2) **COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name : Copper Nitrate Solution
Cas No : 10031-43-3
Symbol: C
EC No : N/A
Risk Phrases : R8, R22
R36/37/38

(3) **HAZARDS IDENTIFICATION**

Human health hazards Harmful if swallowed
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(4) **FIRST AID MEASURES**

Inhalation : Not applicable
Ingestion : Drink plenty of water. If you feel unwell seek medical advice.
Skin Contact : Wash off with plenty of water.
Eye Contact : Rinse immediately with plenty of water, also under the eyelids for at least 15 minutes.

(5) **FIRE FIGHTING MEASURES**

Exinguishing Media
Suitable : Water, foam, CO2, dry powder
Unusual fire / explosion N/A
Hazards
Special fire-fighting Fire fighters should wear self-contained positive
Procedures pressure breathing apparatus (SCBA) and full turnout gear.
Protection of Wear full protective clothing and self-contained
fire-fighters. breathing apparatus.

(6) **ACCIDENTAL RELEASE**

Personal Precautions : Wear appropriate protective clothing (PPE)
Environmental precautions: Avoid subsoil penetration. Do not let product enter drains.
Cleanup Methods : Soak up with inert absorbent material. Shovel into suitable container for disposal. After cleaning, flush away traces with water.

(7) **HANDLING & STORAGE**

Handling : Keep away from reducing agents.
Storage : Storage area should be : cool under cover, well ventilated and dry. Store away from sources of heat and ignition. Water contamination should be avoided. Do not store with food stuffs.

Packing materials
Recommended use : Use original closed container, or polyethylene containers.

(8) **EXPOSURE CONTROLS / PERSONAL PROTECTION**

Engineering Measures: Ensure that eyewash stations and safety showers are close to the workstation location.

Hygiene Measures : Wash hands after handling compounds and before eating, smoking, using lavatory and at the end of the day.

Occupational exposure limits : Not applicable

Personal protection

Respiratory system : Not applicable

Skin and body : Clothing as necessary in chemical industry

Hands : Rubber gloves

Eyes : Tightly fitting safety glasses.

(9) **PHYSICAL & CHEMICAL PROPERTIES**

Physical State : Liquid

Colour : Blue

Odour : None

Density :

Solubility : Completely soluble in water.

PH : 1

Flash Point : Not available

(10) **STABILITY & REACTIVITY**

Stability : The product is stable at normal conditions.

Conditions to avoid : High temperatures.

Materials to avoid : Reducing agents.

Hazardous decomposition product If heated to dryness, toxic fumes of NO₂ are evolved.

(11) **TOXICOLOGICAL INFORMATION**

Local effects :

Eye Irritation Moderate eye irritation on contact.

Acute Toxicity : LD₅₀ : Oral – rat 940 mg/kg

(12) **ECOLOGICAL INFORMATION**

Ecotoxicity : Non biodegradable. Toxic to plants and fungi. Low pH will harm natural watercourses.

(13) **DISPOSAL**

Methods of Disposal: Allocation of waste code number, according to the European Waste Catalogue (EWC), should be carried out in agreement with the regional waste disposal company.

**Waste of Residues ;
Contaminated packaging** Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for refuse. Packaging that cannot be cleaned should be disposed of in agreement with the regional waste disposal company.

(14) **TRANSPORT INFORMATION**

International Transport UN No : 3218 Class : 5.1 22 b
Hazard ID No : N/A
Label : 5.1

(15) **REGULATORY INFORMATION**



**EU Regulations
Hazard Symbol(s)**

Classification : Oxidising Agent
Risk Phrases : R8 Contact with combustible materials may cause fire.
R22 Harmful if swallowed
R36/37/38 Irritating to eyes, respiratory system and skin.

Safety Phrases : S2 Keep out of the reach of children.
S17 Keep away from combustible material
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S27 Take off immediately all contaminated clothing.
S36/37/39 Wear suitable protective clothing, glove and eye / face protection.
S45 In case of accident or if you feel unwell, seek medical advice immediately. (Show label where possible)

Product Use : The information contained in this data sheet does not constitute an assessment of workplace risk.

(16) **OTHER INFORMATION**

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