

PRODUCT SAFETY DATA SHEET

CURATOR ANTIQUING FLUID – BRONZE

Product Description

A cold patination treatment which will colour new or bright brass, copper or bronze to give an antique look.

Directions

Remove any metal lacquer using paint stripper first. Thoroughly remove and clean any grease or oil, including fingerprints with cold patination treatment and wipe dry. Proper preparation of the surface is essential to produce a uniform colour. Apply Antiquing Fluid directly on to the item using either cotton wool or a brush and watch the surface quickly change colour. When the desired colour is achieved, immediately rinse with clean water and pat dry with paper towel. Alternatively dilute with 10 parts water and immerse items together to ensure a uniform colour change.

(1) IDENTIFICATION

Product Name: Curator Antiquing Fluid - Bronze

Supplier: JW Horological Solvents,

(2) COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name : Phosphoric Acid. Orthophosphoric Acid

Cas No : 7664-38-2 EC No : 231-633-2

Symbol: Corrosive Risk Phrases : R34

(3) HAZARDS IDENTIFICATION

Human health hazards : Severe eye, moderate skin and respiratory irritant.

Corrosive to most metals liberating a flammable gas.

(4) FIRST AID MEASURES

Inhalation : Remove from exposure, rest and keep warm. In severe cases, or if recovery is not rapid or complete, seek medical attention.

Ingestion : Wash out mouth with water. Give sips of cold water to drink. Do not induce vomiting. If patient feels unwell seek medical attention.

Skin Contact : Immediately flood the skin with large quantities of water, preferably under a shower. Remove contaminated clothing as washing proceeds. Contaminated clothing should be washed or dry-cleaned before re-use. Obtain medical attention if blistering occurs or irritation persists.

Eye Contact : Immediately flood the eye with plenty of water for at least 10 minutes, holding the eye open. Obtain medical attention.

(5) FIRE FIGHTING MEASURES

Extinguishing Media

Suitable : Not combustible. Select extinguishing agent appropriate to other materials involved.

Unusual fire / explosion Hazardous Combustion Products : Oxides of phosphorous
Hazards

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: Prevent large quantities entering drains, sewers or large watercourses.

Cleanup Methods : Contain with sand or earth, recover large spills for re-use or salvage, slowly neutralize residue with Sodium Bicarbonate or soda ash / lime. Shovel residues into a plastic container and hold for waste disposal.

(7) HANDLING & STORAGE

Handling : Use in well ventilated area. LEV may be required if using heated product. Avoid generating a mist. A stock of neutralizing chemicals should be available to help deal with small spillages.

Storage : 28 – 50°C. Store in original packaging.

Packing materials

Recommended use : Use original container.

(8) EXPOSURE CONTROLS / PERSONAL PROTECTION

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

Occupational exposure limits : (2mg/m³), STEL

TYPE : OES

Personal protection

Respiratory system : Type approved RPE for acidic mists if required.

Skin and body : Wear : PVC overalls, boots, head protection.

Hands : PVC gloves.

Eyes : Safety goggles or face shield.

(9) PHYSICAL & CHEMICAL PROPERTIES

Physical State : Liquid

Colour : Blue

Boiling Point / range : >123°C

Melting Point / range : -58 to + 28°C dependant on grade

Density : Not available

Solubility in water: Miscible with water.

Solubility in solvent : Miscible with lower alcohols. Immiscible with hydrocarbons

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(10) STABILITY & REACTIVITY

Stability : Converts at elevated temperatures (>150°C) to pyrophosphoric acid and eventually (>300°C) to metaphosphoric acid. Phosphorous pentoxide fume may also be released.

Known Hazardous Reactions : Reactions with metals liberates flammable hydrogen gas.

Reactions with bases are exothermic. Reacts with

sulphides, phosphides, cyanides, acetylides, fluorides, silicides and carbides to produce flammable or toxic gases.

(11) TOXICOLOGICAL INFORMATION

Effects : Acid and some salts of suitable purity are permitted food additives. Due to acid nature, will cause burns to exposed tissue.

Acute Toxicity : LD50 : 1530 mg/kg Oral-rat 2740 mg/kg skin-rabbit

(12) ECOLOGICAL INFORMATION

Ecotoxicity : High concentrations in receiving waters will damage aquatic life due to the effects of low pH. LS_{50} for fish, 96 h between 100 and 1000 ppm. Low concentrations may act as plant nutrient or precipitate heavy metals.

(13) DISPOSAL

Methods of Disposal: Dispose of in accordance with all applicable local and national regulations.

(14) TRANSPORT INFORMATION

International Transport UN No : 1805 Class 8, 17(c) Packing Group : III
Emergency Action Code : 2 R HI No: 80
Corrosive

(15) REGULATORY INFORMATION

EU Regulations

Hazard Symbol(s)

Classification : Corrosive

Risk Phrases : R34 Causes burns

Safety Phrases : S2 Keep out of the reach of children.

S24/25 Avoid contact with skin and eyes

S28 After contact with skin wash immediately with plenty of water and soap.

S29 Do not empty into drains.

S36/37 Wear suitable protective clothing and gloves.

S46 If swallowed seek medical advice immediately and show container or label.

S51 Use only in well ventilated area.

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



(16) OTHER INFORMATION

Date of Issue : 05/01/09

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