

# **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:** Horological Solvents,  
Barnside, 194 Wellington Road, Bury, Lancs. BL9 9AH  
Tel: 0161 764 2741

(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 Hazards** Hazardous Combustion Products : Oxides of phosphorous

**Protection of fire-fighters.** Wear full protective clothing and self-contained 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

<b>Handling :</b>	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.
<b>Storage :</b>	28 – 50°C. Store in original packaging.
<b>Packing materials</b>	
<b>Recommended use :</b>	Use original container.

## (8) EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Hygiene Measures :</b>	Wash hands after handling compounds and before eating, smoking, using lavatory and at the end of the day.
<b>Occupational exposure limits :</b>	(2mg/m <sup>3</sup> ), STEL TYPE : OES

### Personal protection

<b>Respiratory system :</b>	Type approved RPE for acidic mists if required.
<b>Skin and body :</b>	Wear : PVC overalls, boots, head protection.
<b>Hands :</b>	PVC gloves.
<b>Eyes :</b>	Safety goggles or face shield.

## (9) PHYSICAL & CHEMICAL PROPERTIES

<b>Physical State :</b>	Liquid
<b>Colour :</b>	Blue
<b>Boiling Point / range :</b>	>123°C
<b>Melting Point / range :</b>	-58 to + 28°C dependant on grade
<b>Density :</b>	Not available
<b>Solubility in water:</b>	Miscible with water.
<b>Solubility in solvent :</b>	Miscible with lower alcohols. Immiscible with hydrocarbons hydrocarbons.

## (10) STABILITY & REACTIVITY

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

<b>Effects :</b>	Acid and some salts of suitable purity are permitted food additives. Due to acid nature, will cause burns to exposed tissue.
<b>Acute Toxicity :</b>	LD50 : 1530 mg/kg Oral-rat 2740 mg/kg skin-rabbit

## (12) ECOLOGICAL INFORMATION

<b>Ecotoxicity :</b>	High concentrations in receiving waters will damage aquatic life due to the effects of low pH. LS50 for fish, 96 h between 100 and 1000 ppm. Low concentrations may act as plant nutrient or precipitate heavy metals.
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(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<sup>o</sup>(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

**Notice to reader**

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