

# **PRODUCT SAFETY DATA SHEET**

## **CURATOR COLD PATINATION PRE-TREATMENT**

### **Product Description**

An acidic degreasing solution that will thoroughly clean away all residues of grease / oil from metal prior to painting, polishing or patination treatment with Curator Antiquing Fluids. Suitable for ferrous and non ferrous metals.

### **Directions**

Wearing acid resistant gloves and eye protection, rub the item with a soft cloth / cotton wool, soaked with the Pre-Treatment. Steel or Iron should be wiped dry with a cotton cloth, other metals can be rinsed with cold water. Allow to dry thoroughly. Do not touch the item throughout the process as even the tiniest of grease marks such as fingerprints, will show throughout when applying Curator Antiquing Fluids.

Always test product on an inconspicuous area to check for colour, compatibility and end results.

## PRODUCT SAFETY DATA SHEET

### 1) IDENTIFICATION

Product Name: Curator Cold Patination Pre-Treatment  
Supplier: Horological Solvents Ltd  
Barnside, 194 Wellington Road, Bury, Lancs. BL9 9AH  
Telephone: 0161 764 2741  
Fax : 0161 764 8696  
Email : horological@restoration-materials.co.uk

### 2) COMPOSITION / INFORMATION ON INGREDIENTS

Phosphoric Acid, Orthophosphoric Acid.  
CAS No : 7664-38-2  
EC No : 231-633-2

### 3) HAZARDS IDENTIFICATION

**Classification :** Health Hazards : Eye Dam. 1, Skin Corr. 1B  
Physical Hazards : Met. Corr. 1  
Environmental Hazards : Not Classified

**Labelling :**

**Hazard Statements :**

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage

H290 May be corrosive to metals

**Precautionary Statements :**

P280 Wear protective gloves / protective clothing / eye protection / face protection.

P301 + P330 + P331 IF SWALLOWED : rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair) : Take off immediately all contaminated clothing. Rinse skin with water / shower.

P363 Wash contaminated clothing before reuse.

P304 + P340 IF INHALED : Remove person to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338 IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P405 Store locked up.

**Hazard Pictograms :** Corrosive



**Signal Words :** Danger

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### **4) FIRST AID MEASURES**

#### **Description of First Aid Measures**

- Skin Contact :** Remove contaminated clothing, wash skin with soap and water. Seek medical attention immediately if blistering occurs or redness persists.
- Eye Contact :** Immediately flush eyes with water, holding eyelids apart for at least 10 minutes. Seek medical assistance.
- Ingestion :** Do not induce vomiting. If conscious, give water to drink. Seek medical attention immediately.
- Inhalation :** If irritation occurs, remove to fresh air, keep warm and at rest, seek medical attention immediately.

### **5) FIRE FIGHTING MEASURES**

- Flammability Hazard:** Non Combustible
- Extinguishing Media:** No special requirements. As appropriate for the fire.
- Advice for fire-fighters :** Wear full protective clothing, and self contained apparatus.
- Special Hazards :** In case of fire, the following can be released – Phosphorus Oxides. E.g. (P205)

### **6) ACCIDENTAL RELEASE MEASURES**

- Personal Precautions:** Take precautions to avoid contact. See Section 8 of SDS for personal protection details.
- Environmental Precautions :** Prevent spills from entering drains, sewers or large water courses.
- Clean Up :** 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** Do not mix with other products. Observe good industrial hygiene.
- Storage :** Store in a cool, dry place protected from frost and away from alkalis and strong oxidising agents. Store upright in original container. Recommended storage temperature 5-25°C.

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

**Occupational Exposure Limits :** 2mg/m<sup>3</sup> STEL **Type** OES

#### **Exposure Controls**

- Eye Protection:** Safety goggles or face shield
- Body Protection:** As necessary to prevent contact.
- Hand Protection:** Wear pvc or latex gloves. Exact choice of glove depends on specific risk assessments.
- Environmental :** Prevent mixture from entering water courses.
- Respiratory:** Not applicable.

## PRODUCT SAFETY DATA SHEET

### 9) PHYSICAL & CHEMICAL PROPERTIES

Appearance :	Colourless liquid
Odour :	Mild, characteristic
Oxidising Properties :	Not applicable
Solubility :	Miscible with water
Initial Boiling Point	100°C
pH (typical)	2.2 1% in water (typical)
Flash Point °c	Not applicable
Relative Density @ 20°C	1.290
Viscosity :	Free Flowing
Vapour pressure	17.5mm Hg at 20°C
Auto Ignition temp :	Not applicable
Explosive Properties	Not applicable

### 10) STABILITY & REACTIVITY

<b>Reactivity :</b>	Incompatible with strong oxidising agents and alkalis.
<b>Chemical Stability :</b>	Stable under recommended storage conditions.
<b>Hazardous Reactions :</b>	Reactions with metals liberates flammable hydrogen gas. Reactions with bases are exothermic.
<b>Conditions to Avoid :</b>	Extremes of temperature
<b>Incompatible Materials :</b>	Incompatible with strong oxidising agents and alkalis.
<b>Hazardous Decom. Products :</b>	Oxides of phosphorus if heated.

### 11) TOXICOLOGICAL INFORMATION

<b>Acute Toxicity :</b>	Based on available data, the classification criteria are not met.
<b>Skin Corrosion / Irritation :</b>	Mixture is classified as Skin Corr. 1B
<b>Serious Eye Damage / Irritation</b>	Mixture is classified as Eye Dam. 1
<b>Symptoms / Routes of Exposure</b>	Skin – Causes severe burns. Eye – Will cause severe damage. Ingestion – Moderate toxicity, will cause irritation and damage to gastro-intestinal tract due to acidity. Inhalation – Not a hazard in normal use.

### 12) ECOLOGICAL INFORMATION

May affect aquatic organisms due to low pH if released into water courses untreated.  
Not classified as dangerous for the environment / aquatic toxicant.  
This product has high water solubility. Contains no ingredients classified as PBT or vPvB.

### 13) DISPOSAL CONSIDERATIONS

<b>Waste Treatment :</b>	Process effluent can normally be discharged to foul sewer (subject to consent limits)
<b>Methods</b>	Large quantities, dispose via a licensed chemical waste contractor. Empty cleaned containers can be recycled where facilities exist or sent for landfill or incineration where permitted.

## PRODUCT SAFETY DATA SHEET

### 14) TRANSPORT INFORMATION

UN Number	1805
Primary Hazard	Corrosive
Packing Group	III
H.I. Number	80
Class / Item Number	8

### 15) REGULATORY INFORMATION



H314 Causes severe skin burns and eye damage  
H318 Causes serious eye damage  
H290 May be corrosive to metals.

### 16) OTHER INFORMATION

It is for users to satisfy themselves of the suitability of this product for their own applications. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

Date of issue : 18/03/2016