

# SAFETY DATA SHEET

## CURATOR ANTIQUING FLUID - BROWN

### PRODUCT DESCRIPTION

Antiquing Fluid – Brown, is a cold patination treatment which will colour new or bright brass, copper, and 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 Curator Cold Patination Pre-Treatment, and wipe dry. Proper preparation of the surface is essential to produce a uniform colour. Dilute with 10 parts water and immerse items together to ensure a uniform colour change. For larger items 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. After treating with Antiquing Fluid, items can be sealed with a finishing wax, oil or appropriate lacquer.

**IMPORTANT** : Always test products first on a spare surface or inconspicuous area to check colour, compatibility and end result.

### SECTION 1 :

#### IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY/UNDERTAKING

##### **1.1 Product Identifier**

Product Name:	Curator Antiquing Fluid - Brown
Composition / Ingredients:	Nitric Acid
Index-No :	007-004-00-1
CAS No :	7697-37-2
EC No :	231-714-2

##### **1.2 Relevant identified uses of the substance or mixture and uses advised against**

##### **1.3 Details of the supplier of the safety data sheet**

Company Name :	Horological Solvents Ltd Barnside, 194 Wellington Road, Bury, Lancs. BL9 9AH
Tel:	0161 764 2741
Fax :	0161 764 8696
Email :	<a href="mailto:horological@restoration-materials.co.uk">horological@restoration-materials.co.uk</a>

##### **1.4 Emergency telephone number**

Emergency tel :	0161 764 2741 (office hours only)
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## **SECTION 2 : HAZARDS IDENTIFICATION**

### **2.1 Classifications of the substance or mixture**

Classification under CLP : Regulation (EC) No.1272/2008

Corrosive to metals - Category 1 H290  
Skin Corrosion Category 1A H314

For the full text of the H-Statements mentioned in this Section – see Section 16.

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Corrosive (C) R35

For the full text of the R-phrases and H-statements mentioned in this Section, see Section 16

### **2.2 Label elements**



Signal Word : **DANGER**

#### **Hazard Statements**

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

#### **Precautionary Statements**

P280 : Wear protective gloves / protective clothing / eye protection / face protection  
P301+P330+P338 : IF SWALLOWED. Rinse mouth. Do NOT induce vomiting.  
P305+P351+P338 : IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308+P310 : IF exposed or concerned: Immediately call a POISON CENTRE/doctor.  
P303+P361+P353 : IF ON SKIN (or hair) Take off immediately all contaminated clothing. Rinse skin with water / shower.

### **2.3 Other hazards**

For results of PBT and vPvB assessment see section 12.5

## **SECTION 3 : COMPOSITION / INFORMATION ON INGREDIENTS**

### **3.1 Substances**

Nitric Acid  
Chemical Nature : Aqueous Solution  
Ox. Liq. 3 H272 Oxidizing O; R8  
Skin Corr. 1A H314 Corrosive; C; R35  
Met. Corr 1 H290

For the full text of the R-Phrases and H-Statements mentioned in this section, see section 16

## **SECTION 4 : FIRST AID MEASURES**

### **4.1 Description of first aid measures**

General Advice :	Take off all contaminated clothing immediately.
If Inhaled :	In case of accident by inhalation : remove casualty to fresh air and keep at rest. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.
Skin Contact :	Wash off immediately with plenty of water for at least 15 minutes.
Eye Contact :	Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Ingestion :	Call a physician immediately. Clean mouth with water.
Inhalation :	Clean mouth with water and drink plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician immediately.

### **4.2 Most important symptoms and effects, both acute and delayed**

Symptoms :	Corrosive effects
Effects :	See Section 11 for more detailed information on health effects and symptoms.

### **4.3 Indication of any immediate medical attention and special treatment needed**

**Notes to Physician :** Treat symptomatically

## **SECTION 5 : FIRE-FIGHTING MEASURES**

### **5.1 Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. The product itself does not burn.

### **5.2 Special hazards arising from the substance or mixture**

Specific hazards during firefighting : Fire may cause evolution of : Nitrogen Oxides (NOx)

### **5.3 Advice for fire-fighters**

In the event of fire, wear self-contained breathing apparatus. Wear personal protective equipment. Cool closed containers exposed to fire with water spray. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

## **SECTION 6 : ACCIDENTAL RELEASE MEASURES**

### **6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Keep people away from and upwind of spill / leak. Provide adequate ventilation. Avoid contact with skin and eyes. Do not breathe gas / fumes / vapour / spray. For personal protection see Section 8

### **6.2 Environmental precautions**

Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. If the product contaminates rivers and lakes or drains inform respective authorities. If material reaches soil inform authorities responsible for such cases.

### **6.3 Methods and material for containment and cleaning up**

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

### **6.4 Reference to other sections**

Reference to other sections : Refer to section 1, 8 and 13

## **SECTION 7 : HANDLING AND STORAGE**

### **7.1 Precautions for safe handling**

Advice on Safe Handling : Keep container tightly closed. Handle and open container with care. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Do not breathe vapours or spray mist. Use respirator with appropriate filter if vapours or aerosol are released. Emergency eye wash fountains and emergency showers should be available in the immediate vicinity.

Hygiene Measures : Keep away from food, drink and animal feeding stuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday. Take off all contaminated clothing immediately. Provide adequate ventilation. Avoid contact with the skin and the eyes. Do not breathe gas/fumes/vapour/spray.

### **7.2 Conditions for safe storage, including any inculpabilities**

Keep in an area equipped with acid resistant flooring. Keep only in the original container.

The product is not flammable. Normal measures for preventive fire protection. Keep away from combustible material.

Storage : Keep tightly closed in a dry and cool place. Protect against light. Protect from contamination. Keep in a well-ventilated place. Keep away from food, drink and animal feeding stuffs.

### **7.3 Specific end use(s)**

Metal Finishing

## **SECTION 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION**

### **8.1 Control parameters**

#### **Nitric Acid**

STEL (Short Term Exposure Limit) : 1 ppm, 2.6mg/m<sup>3</sup>

DNEL (Derived Minimal Effect Level) - Workers, Long-term local effects inhalation : 1.3mg/m<sup>3</sup>,  
Workers, Acute – local effects inhalation : 2.6mg/m<sup>3</sup>, Consumers, Long-term local effects inhalation :  
0.65mg/m<sup>3</sup>, Consumers, Acute local effects inhalation : 1.3 mg/m<sup>3</sup>

### **8.2 Exposure controls**

**Engineering Measures** : Refer to protective measures listed in sections 7 & 8.

**Hand Protection** : Wear suitable gloves. The glove material has to be impermeable and resistant to the product and should be replaced at first signs of wear.

**Skin & Body Protection** : Wear appropriate protective gloves and clothing to prevent skin exposure.

**Eye Protection** : Tightly fitting safety goggles.

**Respiratory Protection** : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. To protect the wearer, respiratory equipment must be the correct fit and be used and maintained properly.

**Hygiene Measures** : Handle in accordance with good industrial hygiene and safety practice.

**Environmental Controls** : Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. If the product contaminates rivers and lakes or drains inform respective authorities.

## **SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES**

### **9.1 Information on basic physical and chemical properties**

Physical State :	Liquid
Appearance :	Blue
Odour :	Slight
Solubility in water :	Miscible
Boiling point / range °C	No data available
Flash Point :	No data available
Oxidizing Properties :	Oxidizing Agents

### **9.2 Other Information**

Corrosion to metals : Corrosive to metals.

## **SECTION 10 : STABILITY AND REACTIVITY**

### **10.1 Reactivity**

Reactivity : Stable under recommended storage conditions.

### **10.2 Chemical stability**

Chemical stability : Stable under normal conditions.

### **10.3 Possibility of hazardous reactions**

Hazardous reactions : Gives off hydrogen by reaction with metals. Corrosive in contact with metals.

### **10.4 Conditions to avoid**

Heat/Impurities

### **10.5 Incompatible materials**

Materials to avoid : Reducing agents. Keep away from combustible material.

### **10.6 Hazardous decomposition products**

Nitrous gases, hydrogen products.

## **SECTION 11 : TOXICOLOGICAL INFORMATION**

### **11.1 Information on toxicological effects**

#### **Product Information**

- a) Acute Toxicity - Oral : No data available
- Dermal : No data available
- Inhalation : No data available
- Skin Irritation : Causes severe burns
- Eye Damage : Causes eye burns
- Respiratory : No data available

Carcinogenicity : No data available

**Other relevant toxicity information :**

If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach. Inhalation of vapours in high concentration may cause shortness of breath (lung oedema).

**SECTION 12 : ECOLOGICAL INFORMATION**

**12.1 Toxicity**

Ecotoxicity effects : Fish LC50 : 12.5 mg/l (rainbow trout) 96h

**12.2 Persistence and degradability**

The methods for determining the biological degradability are not applicable to inorganic substances.

**12.3 Bio accumulative potential**

Does not bioaccumulate.

**12.4 Mobility in soil**

Not expected to absorb on soil. The product is water soluble.

**12.5 Results of PBT and vPvB assessment**

The PBT or cPvB criteria of Annix XIII to the REACH Regulation does not apply to inorganic substances.

**12.6 Other adverse effects**

Harmful effects to aquatic organisms due to pH-shift. Neutralization is normally necessary before waste water is discharged into water treatment plants. Do not flush into surface water or sanitary sewer system.

**SECTION 13 : DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods**

Disposal together with normal waste is not allowed. Special disposal required according to local regulations. Do not let product enter drains

N.B : The user attention is drawn to the existence of regional or national regulations regarding disposal.

**SECTION 14 : TRANSPORT INFORMATION**

- 14.1 UN Number : UN2301
- 14.2 UN Proper Shipping Name : Nitric Acid
- 14.3 Transport Hazard Class(es) : 8
- 14.4 Packing Group : II
- 14.5 Environmental Hazardous : No

**SECTION 15 : REGULATORY INFORMATION**

**15.1 Safety, health and environmental regulations / legislation specific for the substance or mixture:**

The regulatory information given above only indicates their principal regulations specifically applicable to the product described in the safety data sheet. The users attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

**SECTION 16 : OTHER INFORMATION**

**Full text R-Phrases used in S2 & S3**

- R8 - Contact with combustible material may cause fire.
- R35 - Causes severe burns.

**Full text of H-Statements used in S2 & S3**

- H272 - May intensify fire; oxidizer
- H290 - May be corrosive to metals
- H314 - Causes severe skin burns and eye damage

Legal Disclaimer : 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.

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