SAFETY DATA SHEET

CURATOR ANTIQUING FLUID - BLACK

PRODUCT DESCRIPTION

Antiquing Fluid – Black, is a cold patination treatment which will colour new or bright brass, copper, bronze and steel 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 - Black
Composition / Ingredients: Selenium Compound Liquid

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 : horological@restoration-materials.co.uk

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

Physical Hazards

Based on available data, the classification criterea are not met.

Health Hazards

Acute oral toxicity	Category 3
Acute Inhalation Toxicity – Vapours	Category 3
Specific target organ toxicity – (repeated exposure)	Category 2

Environmental Hazards

Acute aquatic toxicity	Category 1
Chronic aquatic toxicity	Category 1

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

Symbol(s)	T – Toxic
	N – Dangerous for the environment
R-phrase(s)	R33 – Danger of cumulative effects
	R23/25 – Toxic by inhalation and if swallowed.
	R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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

H301 - Toxic if swallowed
H331 - Toxic if inhaled
H373 - May cause damage to organs through prolonged or repeated exposure.
H410 - Very toxic to aquatic life with long lasting effects.

Precautionary Statements

P301 + P310 – IF SWALLOWED : Immediately call a POISON CENTER or doctor / physician
P304 + P340 – IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing.
P260 – Do not breathe dust / fume / gas/ mist / vapours / spray
P273 – Avoid release to the environment

2.3 Other hazards

PBT : This product is not identified as a PBT substance

SECTION 3 : COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Selenium Dioxide

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

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SECTION 4 : FIRST AID MEASURES

4.1 Description of first aid measures

Skin Contact :	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Immediate medical attention is required.
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 :	Remove from exposure, lie down. Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Immediate medical attention is required.

4.2 Most important symptoms and effects, both acute and delayed

Breathing difficulties. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

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

Water spray. Carbon dioxide (CO_2) Dry chemical. Chemical Foam. Cool closed containers exposed to fire with water spray.

5.2 Special hazards arising from the substance or mixture

Combustible material. Flammable. Containers may explode when heated. Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous Combustion Products : Carbon Monoxide (CO), Carbon Dioxide (CO_2)

5.3 Advice for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved and equivalent) and full protective gear.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Take precautionary measures against static discharges.

6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g sand, silica gel, acid binder, universal binder, sawdust) Keep in suitable, closed containers for disposal. Do not let this chemical enter the environment. Remove all sources of ignition.

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6.4 Reference to other sections

Reference to other sections : Refer to section 8 and 13

SECTION 7 : HANDLING AND STORAGE

7.1 Precautions for safe handling

Do not breathe vapours or spray mist. Do not get in eyes, on skin, or on clothing. Use only in area provided with appropriate exhaust ventilation. Keep away from open flames, hot surfaces and sources of ignition.

7.2 Conditions for safe storage, including any inculpabilities

Keep in a dry, cool and well ventilated place. Keep container tightly closed. Keep away from heat and sources of ignition.

7.3 Specific end use(s)

Metal Finishing

SECTION 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Selenium Dioxide	STEL : 0.3 mg/m^3	15 min
	TWA : 0.1 mg/m^3	8 hr

8.2 Exposure controls

Engineering Measures : Ensure adequate ventilation, especially in confined areas. Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems should be adopted to control hazardous materials at source.

Hand Protection : Protective gloves – Nitrile rubber, Neoprene, Natural rubber, PVC (see manufacturers recommendations for breakthrough time)

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

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 : Prevent product from entering drains. Do not allow material to contaminate ground water system. Local authorities should be advised if significant spillages cannot be contained.

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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 ^oC	183^oC / 361.4^oF @ 760 mmHg
Flash Point :	70^oC / 158^oF

9.2 Other Information

Other Information : No data available.

SECTION 10 : STABILITY AND REACTIVITY

10.1 Reactivity

Reactivity : None known based on information available

10.2 Chemical stability

Chemical stability : Stable under normal conditions. Air sensitive

10.3 Possibility of hazardous reactions

Hazardous reactions : No information available.

10.4 Conditions to avoid

Exposure to air. Incompatible products. Keep away from open flames, hot surfaces and sources of ignition.

10.5 Incompatible materials

Materials to avoid : Strong oxidising agents.

10.6 Hazardous decomposition products

Carbon monoxide (CO) Carbon dioxide (CO_2)

SECTION 11 : TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Product Information

a)

Acute Toxicity - Oral	:	Category 3
Dermal	:	No data available
Inhalation	:	Category 3
Skin Irritation	:	No data available
Serious Eye Damage	:	No data available
Respiratory	:	No data available
Carcinogenicity	:	No data available (There are no carcinogenic chemicals in this product.

STOT – repeated exposure : Category 2

Symptoms / effects both acute and delayed : Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

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SECTION 12 : ECOLOGICAL INFORMATION

12.1 Toxicity

Ecotoxicity effects : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

12.2 Persistence and degradability

Degradation in sewage treatment plant : Contains substances known to be hazardous to the environment or not degradable in waste water treatment plants.

12.3 Bio accumulative potential

No information available.

12.4 Mobility in soil

No information available

12.5 Results of PBT and vPvB assessment

No data available for assessment.

12.6 Other adverse effects

None known.

SECTION 13 : DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Should not be released into the environment. Do not dispose of waste into sewer. Waste is classified as hazardous.

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 :	UN3440
14.2	UN Proper Shipping Name :	Selenium Compound, Liquid, N.O.S
14.3	Tansport Hazard Class(es) :	6.1
14.4	Packing Group :	II
14.5	Environmental Hazards :	Dangerous for the environment. Product is a marine pollutant according to the criteria set by IMDG/IMO

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.

15.2 Chemical Safety Assessment

Chemical Safety Assessment : A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

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SECTION 16 : OTHER INFORMATION

Full text R-Phrases used in S2 & S3

R33 – Danger of cumulative effects
R23/25 – Toxic by inhalation and if swallowed
R50/53 – Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Full text of H-Statements used in S2 & S3

H301 - Toxic if swallowed
H331 – Toxic if inhaled
H400 – Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects.

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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