

PRODUCT SAFETY DATA SHEET

CURATOR BLUING SALTS

Product Description

A crystallized compound, used to facilitate the bluing of steel.

Directions

Place crystals in a strong container that will stand frequent heating to high temperatures. Heat up the crystals, which will melt and form a liquid. Wire up the cleaned steel hand or other steel component with binding wire, so that it can be manoeuvred in and out of the liquid.

Immerse the wired hand into the liquid, lifting it out from time to time to allow oxidation to take place. Please note that the bluing salts themselves do not blue the steel, but merely keep it at an even temperature, so that all thicknesses of steel, blue at the same time.

When the hand has reached the desired shade of blue, quench immediately in cold water. Do NOT on any account replace the hand back into the bluing liquid after it has been cooled in the water, as this will make the bluing salts spit furiously.

The liquid will set solid when cold, and this is reusable. Make sure that the liquid cannot be knocked over, as any accident would cause serious burns.

HEALTH & SAFETY

U.N. Number	1486
R8	Contact with combustible material may cause fire.
S7/8	Keep container tightly closed and dry.
S22	Do not breathe dust.
S24/25	Avoid contact with skin and eyes.

PRODUCT SAFETY DATA SHEET

1) IDENTIFICATION

Product Name: Curator Bluing Salts
Supplier: Horological Solvents Ltd
Barnside, 194 Wellington Road, Bury, Lancs. BL9 9AH
Telephone: 0161 764 2741
Fax : 0161 764 8696

2) COMPOSITION / INFORMATION ON INGREDIENTS

Potassium Nitrate > 97%
CAS No. 7757-79-1
EINECS No. 231-818-8
Risk Phrases R8

3) HAZARDS IDENTIFICATION

Main Hazards Contact with combustible material may cause fire.
Slightly irritant to the skin, eyes and respiratory organs.

4) FIRST AID MEASURES

Eyes: Rinse immediately with plenty of water for 15 minutes. Do not apply neutralising agents. Consult doctor/ medical service if irritation persists.
Skin: Wash immediately with lots of water and soap for 15 minutes. Remove clothing while washing. Consult a doctor / medical service if irritation persists. Do not apply (chemical) neutralising agents.
Inhalation: Unconscious : Maintain adequate airway and respiration. Remove victim into fresh air. Consult medical service if breathing problems develop.
Ingestion: Immediately give lots of water to drink. Never give water to an unconscious person. If victim is fully conscious, immediately induce vomiting. Consult a doctor / medical service if you feel unwell.

5) FIRE FIGHTING MEASURES

Extinguishing Media: Non combustible. All extinguishing medias allowed.
Special Exposure On heating / burning : Release of toxic and corrosive
Hazards Instructions: nitrous vapours.
Cool tanks / drums with water spray / remove them into safety. Dilute toxic gases with water spray. Do not move the load if exposed to heat.
Protective Equipment: Heat / fire exposure : Compressed air / oxygen apparatus, gas tight suit.

6) ACCIDENTAL RELEASE

Personal Precautions: See Section 8

Environmental Precautions : Substance must be discharged into the sewer. Knock down / dilute dust cloud with water spray. Collect / pump leaking substance into suitable containers. Plug the leak, cut off the supply.

Clean Up : To prevent dispersion : cover with dry sand / earth. Scoop solid spill into closing containers. Spill must not return in its original container. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

7) HANDLING & STORAGE

Handling Reduce / avoid exposure and / or contact. Avoid raising dust. Keep container tightly closed. Do not discharge the waste into the drain. Remove contaminated clothing immediately.

Storage : Store in a dry area. Fireproof storeroom. Keep away from : Heat sources, combustible materials, reducing agents, acids, metals and organic materials.

Storage Temp. 20°C

Suitable Materials For Packaging Synthetic materials, glass

Unsuitable : Wood

8) EXPOSURE CONTROLS / PERSONAL PROTECTION

Eye Protection: Safety glasses. In case of dust production – protective goggles.

Skin Protection: Gloves, protective clothing

Body Protection: As necessary to prevent contact.

Respiratory: On heating : gas mask.

Dust production : Dust mask with filter type P2

9) PHYSICAL & CHEMICAL PROPERTIES

Appearance: Colourless / white crystalline powder

Odour: Odourless

pH value 6 – 8 (5%)

Melting Point / Range 334°C

Relative Density (at 16°C) 2.1

Water Solubility 32g / 100ml

Soluble In Glycerol

Relative Vapour Density 3

10) STABILITY & REACTIVITY

Stability : Stable under normal conditions

Reactivity : On heating / burning : Release of toxic and corrosive nitrous vapours.

11) TOXICOLOGICAL INFORMATION

Acute Effects / Symptoms	Slight irritation / redness of eye tissue Slight irritation / tingling of the skin Slight irritation of the respiratory tract / coughing Slight irritation of the nasal mucous membranes. Headache, respiratory difficulties, risk of lung oedema, vomiting, nausea, abdominal pain, gastrointestinal complaints, irritation of the gastric / intestinal mucosa.
After absorption of High quantities :	Blue / grey discolouration of the skin, dizziness, shock, blood in stool, change in urine output, change in urine composition, cramps / uncontrolled muscular contractions.
Chronic Effects :	On continuous / repeated exposure : skin rash, inflammation.

12) ECOLOGICAL INFORMATION

Aquatic Toxicity:	LC50 72h <i>Poecilia Reticulata</i> 200mg/l LC50 48h <i>Daphnia Magna</i> 490 mg/l EC50 Plankton 20 / 100 mg/l
WGK	1

13) DISPOSAL

Product Disposal : Immobilise the toxic or harmful components. Remove to an authorised dump (Class I) Do not discharge into surface water.

14) TRANSPORT INFORMATION

UN No:	1486
Class	5.1
Danger Code	50
Cargo Instruction	518
Passenger Instruction	516/Y516

15) REGULATORY INFORMATION

Health :	Oxidising
R phrases :	R8 Contact with combustible material may cause fire.
S phrases :	S7/8 Keep container tightly closed and dry S22 Do not breathe dust S24/25 Avoid contact with skin and eyes

16) OTHER INFORMATION

It is for users to satisfy themselves of the suitability of this product for their own applications.

This information is believed to be accurate at the time of printing, and is given in good faith. Date of issue : May 2004