

PRODUCT SAFETY DATA SHEET

1 Identification of Substance:

VERDIGRIS FLUID

2 Composition:

Chemical name: Copper Nitrate solution.

CAS No.: 10031-43-3 **EC No.:** N/A

Symbol: O **R-Phrases:** N/A

3 Hazards Identification:

Human health hazards: Harmful if swallowed.

4 First Aid Measures:

Inhalation: Not applicable.

Ingestion: Drink plenty of water. If you feel unwell seek medical advice.

Skin Contact: Wash off with plenty of water.

Eye Contact: Rinse immediately with plenty of water, also under the eyelids for at least 15 minutes.

5 Fire Fighting Measures:

Extinguishing Media

Suitable: Water, foam, CO₂, Dry powder.

Unusual fire/explosion: N/A

Hazards

Hazardous thermal: If heated to dryness, toxic fumes of NO₂ are evolved.

(de)composition

Special fire-fighting: Fire fighters should wear self-contained positive pressure breathing procedures apparatus (SCBA) and full turnout gear.

Protection of fire-fighters: Wear full protective clothing and self-contained breathing apparatus.

6 Accidental Release Measures:

Personal Precautions: Use personal protective equipment.

Environmental precautions: Avoid subsoil penetration. Do not let product enter drains and cleanup methods

Soak up with inert absorbent material (ie. Alfagrit, obtainable from Armack Chemicals).

Shovel into suitable container for disposal. After cleaning, flush away traces with water.

7 Handling and Storage:

Handling: Keep away from reducing agents.

Storage: Storage area should be: cool, under cover, well ventilated and dry. Store away from sources of heat or ignition. Water contamination should be avoided. Do not store with food stuffs.

Packing materials

Recommended use: Use original closed container, or polyethylene containers.

8 Exposure Controls & Personal Protection:

Engineering measures: Ensure that eyewash stations and safety showers are close to the workstation location.

Hygiene measures: Wash hands after handling compounds and before eating, smoking, using lavatory and at the end of the day.

Occupational exposure limits: Not applicable.

Personal protective equipment

Respiratory system: Not applicable.

Skin and body: Clothing as necessary in the chemical industry.

Hands: Rubber gloves.

Eyes: Tightly fitting safety glasses.

9 Physical & Chemical Properties:

Physical state: Liquid.

Colour: Blue

Odour: None.

Density:

Solubility: Completely soluble in water.

PH: 1

Flash point: Not available

10 Stability & Reactivity:

Stability: The product is stable at normal conditions.

Conditions to avoid: High temperatures.

Materials to avoid: Reducing agents.

Hazardous decomposition: If heated to dryness, toxic fumes of NO₂ are evolved.

products

11 Toxicological Information:

Local effects

Eye irritation: Moderate eye irritation on contact.

Acute toxicity: LD₅₀: Oral-rat 940 mg/kg

LC₅₀: Not available.

12 Ecological Information:

Ecotoxicity: Non biodegradable. Toxic to plants and fungi. Low pH will harm natural watercourses.

13 Disposal Considerations:

Methods of disposal: Allocation of a waste code number, according to the European Waste Catalogue (EWC), should be carried out in agreement with the regional waste disposal company.

Waste of Residues: Contaminated packaging should be emptied as far as possible and after appropriate

Contaminated packaging: cleansing may be taken for refuse. Packaging that cannot be cleaned should be disposed of in agreement with the regional waste disposal company.

14 Transport Information:

International transport regulations

UN number: 3218
Class: 5.1 22 b
Hazard id. No.: N/A
Label: 5.1

15 Regulatory Information:

EU Regulations

Hazard symbol(s):

Classification: Oxidising Agent

Risk Phrases: N/A

Safety Phrases: N/A

Product Use: The information contained in this data sheet does not constitute an assessment of workplace risk.

16 Other Information:

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Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the named supplier nor and of its

subsidiaries assumes any liability for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards

and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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