



SAFETY DATA SHEET (91/155/EC)

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

* Product name:

HAEMATITE

* Supplier:

LIBERON

Mountfield Ind Est

New Romney

Kent, TN28 8XU

Tel: 0044 (0)1797 367555

Fax: 0044 (0)1797 367575

* Emergency phone number (to be used by the practising doctor):

UK - National Poisons Information Service Phone: 44 / 191 22 5131

2. COMPOSITION/INFORMATION ON INGREDIENTS

* Preparation name:

HAEMATITE

* Component(s) contributing to the health hazard:

copper sulphate

A 1 NR: 029-004-00-0 CAS NR: 7758-98-7 EC NR: 231-847-6

Conc. (weight %): <10% - Symbol(s): Xn - R: 22-36/38-50/53

selenium compounds except cadmium sulphoselenide

A 1 NR: 034-002-00-8

Conc. (weight %): <5% - Symbol(s): T N - R: 23/25-33-50/53

TLV TWA mg: 0.20000 *

nitric acid ... %

A 1 NR: 007-004-00-1 CAS NR: 7697-37-2 EC NR: 231-714-2

Conc. (weight %): <3% - Symbol(s): O C - R: 34

TLV TWA mg: 5.20000 * TLV TWA ppm: 2.0000

TLV STEL mg: 10.000 * TLV STEL ppm: 4.00

3. HAZARDS IDENTIFICATION

* Most important hazards:

Harmful by inhalation and if swallowed: May cause burns.

React violently in contact with bases, oxidising compounds.

Danger of cumulative effects

Irritating to eyes, respiratory system and skin.

* Specific hazards:

Affects many metals.

4. FIRST AID MEASURES

* General advice:

For symptom description, see item 11.

In case of doubt or persistent symptoms, always consult a physician.

* Inhalation:

Take victim to fresh air, in a quiet place, in an half laying position and if necessary take medical advice.

Give oxygen or artificial respiration if necessary.

* Skin contact:

Take off immediately all contaminated clothing.

Rinse thoroughly with plenty of water for at least 20 minutes and take medical advice.

* Eye contact:

Wash with plenty of water (20 minutes minimum) with eyes wide open after taking off soft contact lenses and immediately take medical advice.

* Ingestion:

Never give anything by mouth to an unconscious person.

Rinse out mouth, drink a lot of water, do not induce vomiting, keep patient at rest and go immediately to hospital or to a doctor.

5. FIRE-FIGHTING MEASURES

* Suitable extinguishing media:

The product itself does not burn.

In case of fire in the surroundings: all extinguishing agents allowed.: foam, powder, carbon dioxide (CO₂), sand, water spray.

* Extinguishing media which must NOT be used for safety reasons:

None.

* Specific method(s):

Use water spray to disperse the vapours.

* Specific fire hazard(s):

Concerning product toxicity, see item 11 and about product stability and reactivity see item 10.

In case of fire, corrosive and harmful gases come free.

Possibility to produce hydrogen by corrosion exists (fire and explosion generator).

* Special protective equipment for fire-fighters:

Use a self-contained breathing apparatus and also a protective suit.

6. ACCIDENTAL RELEASE MEASURES

* Personal precaution(s):

Evacuate personnel to a safe area.

Avoid contact with skin, eyes, or clothing.

Concerning personal protective equipment to use, see item 8.

* Environmental precaution(s):

Stop leak without risks if possible.

Restrict liquid from spreading over surface with floating screens if possible.

Prevent liquid from entering sewers, watercourses, underground or foundations.

Concerning disposal elimination after cleaning, see item 13.

* Method(s) for cleaning up:

Treat vapours with water spray.

Large quantities: Contain large spillage with sand or earth. Neutralise with soda ash or diluted caustic soda solution and flush with plenty of water.

Small amounts: Flush contaminated areas with plenty of water.

Dispose as hazardous waste.

7. HANDLING AND STORAGE

* Handling

* - Precaution(s):

People with respiration and over sensibility problems are not allowed to work or be exposed to product.

Avoid contact with skin and eyes.

Do not eat, drink and do not smoke in areas where product is used.

Do not add water to product.

Shower, eye bath and water point in proximity.

Provide sufficient air exchange and/or exhaust.

* - Technical condition(s):

Do not use compressed air to fill, handle or work up.

ALWAYS add product to water for dilution/mixture.

* - Safe handling advice(s):

Keep container tightly closed to avoid moisture absorption and contamination.

Open container carefully to avoid spurting.

* Storage

* - Precaution(s):

Store always product in a labelled container of same material as original container.

Store in a place accessible by authorised persons only.

* - Storage condition(s):

Store, if possible, in a cool, well ventilated place away from incompatible materials.

* - Separation of incompatible product(s):

bases, metals, oxidants, flammable products, sulphurs

* - Packaging / tank material:

Plastic packaging are recommended. (PVC, PP, PE)

glass

Coated steel

* - Unsuitable packaging materials:

Avoid non-protected metal containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

* Engineering measure(s):

Ensure adequate ventilation, especially in confined areas.

To protect against splashes from pouring.

* Control parameter(s):

* Personal protection equipment:

Avoid contact with skin, eyes and clothing.

* - Respiratory protection:

In case of insufficient ventilation wear suitable respiratory equipment.

Use a respirator with a vapour cartridge: B (inorganic vapour).

* - Hand protection:

neoprene or natural rubber gloves

* - Skin and body protection:

Rubber apron, boots.

* - Eye protection:

Wear safety glasses which protect from splashes.

* Hygiene measure(s):

Do not eat, drink, or smoke during work.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state / form: liquid

Colour: colourless / light yellow

Odour: strong

pH: < 3

Boiling point/range: Not applicable.

Flash point: Not applicable.

Explosion limits: Not applicable.

Flammability (solid, gas): Not applicable.

Relative density (water = 1): > 1

Viscosity: Not determined.

Water solubility: completely soluble

Fat solubility: Not Available

Solvent solubility: completely miscible with: alcohols, ethers, aromatic hydrocarbons ...

10. STABILITY AND REACTIVITY

* Stability:

Stable at normal conditions.

* Condition(s) to avoid:

Heating can release hazardous gases. Avoid ignition sources.

* Material(s) to avoid:

bases, metals, oxidants, sulphurs

* Hazardous decomposition products:

Gives off hydrogen by reaction with metals.

11. TOXICOLOGICAL INFORMATION

* Acute toxicity

* - Inhalation:

cough, difficulty in breathing, suffocation, bronchitis symptom, oedema of

the lungs.

Symptoms of respiratory complications (lung oedema) may occur several hours after.

* - Skin contact:

severe skin irritation, burn, redness, dermatitis, necrosis of tissue.

* - Eye contact:

severe eye irritation, acute eye corrosion.

* - Ingestion:

burns of the upper digestive and respiratory tracts, abdominal pain, bloody vomiting, severe damage to the delicate tissue and danger of perforation.

12. ECOLOGICAL INFORMATION

* Environmental toxicity:

May be dangerous for environment.

Product may not flow into sewer or superficial water.

High concentration in receiving water will injure aquatic life by pH effect.

13. DISPOSAL CONSIDERATIONS

* Waste / unused products:

Must be neutralised before dumping ground.

Neutralise with soda ash or diluted caustic soda solution and flush with plenty of water.

* Contaminated packaging:

Wastes, including emptied containers, are controlled wastes and should be Disposed of in accordance with regulations made under the Control of Pollution Act and the Environmental Protection Act.

14. TRANSPORT INFORMATION

UN No. 6264

Land (Road / Railway: ADR/RID)

- class: 8

- item and letter: 8.17 C

Sea (IMDG)

Air (ICAO/IATA)

- ICAO/IATA class: 8

Inland waterways (ADNR)

- class: 8

15. REGULATORY INFORMATION

* EC number: Not applicable.

Symbol(s): Xn - Harmful

Contains:

selenium compounds except cadmium sulphoselenide

R-phrases:

R : 20/22

Harmful by inhalation and if swallowed.

R : 33
Danger of cumulative effects.
R : 36/38
Irritating to eyes and skin.

S-phrase(s):
S : 2
Keep out of the reach of children.
S : 29
Do not empty into drains.
S : 51
Use only in well-ventilated areas.
S : 25
Avoid contact with eyes.
S : 26
In case of contact with eyes, rinse immediately with plenty of water and seek Medical advice.
S : 46
If swallowed, seek medical advice immediately and show this container or label.
S : 36/37
Wear suitable protective clothing and gloves.
S : 49
Keep only in the original container.
S : 20
When using do not eat or drink.

16. OTHER INFORMATION

* According legislation(s):

This safety data sheet is in compliance with EC directives and adaptations no.: 67/548 and 91/155.

* Important remarks:

No liability will be accepted whatsoever arising out of the use of this information.

It is recommended to pass the information of this safety data sheet, eventually in an appropriated form, to the users.

* Restrictions:

This information relates to the specific material designated and may not be valid in combination with other product(s).

* History

- First edition date: 28/07/1998

- Review date: 27/03/2000

- Version: 2

- Review chapter(s) n°: 2

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