

SAFETY DATA SHEET

HA26

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Issued: 06/07/03

Revision No: 1

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product name: HA26

Use / description of product: Closed circuit corrosion inhibitor. Toxic. Corrosive.

Company name: Howlett Associates Water Treatment Ltd

Challenge House

Mitcham Road

Croydon

CR0 3AA

Tel: 020 82398865

Fax: 020 86836460

2. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients: SODIUM NITRITE 20-30%

CAS: 7632-00-0

EINECS: 231-555-9

[O] R8; [T] R25; [N] R50;

- TOLYLTRIAZOLE <10%

CAS: 64665-57-2

[Xn] R22; [C] R34;

- POTASSIUM HYDROXIDE <10%

CAS: 1310-58-3

EINECS: 215-181-3

[Xn] R22; [C] R35;

Contains: A blend of corrosion inhibitors.

3. HAZARDS IDENTIFICATION

Main hazards: Toxic if swallowed. Irritating to eyes and skin. Very toxic to aquatic organisms.

4. FIRST AID MEASURES (SYMPTOMS)

Skin contact: Irritation or pain may occur at the site of contact. Severe burns may occur. Absorption through the skin may occur causing symptoms similar to those of ingestion.

Eye contact: There may be irritation and redness. There may be severe pain. Corneal burns may occur.

Ingestion: There may be difficulty swallowing. Inhalation of fumes from the stomach may cause symptoms similar to direct inhalation. Nausea and stomach pain may occur. There may be vomiting. The breathing may become shallow and rapid. May cause dizziness. There may be loss of consciousness. Convulsions may occur.

Inhalation: Liquid product, Inhalation unlikely. There may be a feeling of tightness in the chest with shortness of breath. There may be loss of consciousness. Convulsions may occur.

[cont...]

4. FIRST AID MEASURES (ACTION)

- Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning.
- Eye contact:** Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.
- Ingestion:** Do not induce vomiting. If conscious, give 1 pint of water to drink immediately. If substance swallowed is corrosive, give 1 cup of water to drink every 10 minutes. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible.
- Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. If conscious, ensure the casualty sits or lies down. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital as soon as possible.

5. FIRE-FIGHTING MEASURES

- Extinguishing media:** Carbon dioxide. Alcohol resistant foam.
- Exposure hazards:** Toxic. Corrosive. In combustion emits toxic fumes.
- Protection of fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions:** Refer to section 8 of SDS for personal protection details. Mark out the contaminated area with signs and prevent access to unauthorised personnel.
- Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding.
- Clean-up procedures:** Absorb into dry earth or sand. Clean-up should be dealt with only by qualified personnel familiar with the specific substance.

7. HANDLING AND STORAGE

- Handling requirements:** Ensure there is sufficient ventilation of the area. Avoid direct contact with the substance.
- Storage conditions:** Store in cool, well ventilated area. Keep container tightly closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Ingredients:** POTASSIUM HYDROXIDE
STEL (15 min exposure limit): 2 mg/m³
- Engineering measures:** Ensure there is sufficient ventilation of the area.
- Respiratory protection:** Self-contained breathing apparatus must be used in handling.
- Hand protection:** Protective gloves.
- Eye protection:** Safety goggles. Ensure eye bath is to hand.
- Skin protection:** Protective clothing with elasticated cuffs and closed neck. Boots made of PVC. Ensure safety shower is to hand.

9. PHYSICAL AND CHEMICAL PROPERTIES

State: Liquid
Colour: Pale brown
Odour: Perceptible odour
Oxidising: Non-oxidising (by EC criteria)
Solubility in water: Soluble
Viscosity: Non-viscous
Relative density: 1.190 - 1.200
pH: 11.5-13

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.
Materials to avoid: Acids.
Haz. decomp. products: Contact with acids liberates toxic gas.

11. TOXICOLOGICAL INFORMATION

Ingredients: SODIUM NITRITE
ORL MUS LD50 175 mg/kg
ORL RAT LD50 180 mg/kg
SCU RAT LD50 96600 µg/kg

- TOLYLTRIAZOLE
ORL RAT LD50 1980 mg/kg
SKN RBT LD50 >2000 mg/kg
- POTASSIUM HYDROXIDE
ORL RAT LD50 273 mg/kg

Chronic toxicity: Toxic if swallowed.

12. ECOLOGICAL INFORMATION

Ingredients: TOLYLTRIAZOLE
Toxicity ALGAE 96H LC50 25 mg/l
Toxicity FISH 96H LC50 100 mg/l

Mobility: Soluble in water.

Other adverse effects: Toxic to aquatic organisms. Do not allow concentrated product to enter rivers or water courses.

13. DISPOSAL CONSIDERATIONS

Disposal operations: Disposal should be carried out by licenced contractors.
Disposal of packaging: Containers must be disposed of in a safe way.
NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. TRANSPORT INFORMATION**ADR / RID**

UN no: 3287 **ADR Class:** 6.1
Packing group: III **Hazard ID no:** 60
Labelling: 6.1
Shipping name: TOXIC LIQUID, INORGANIC, N.O.S.

IMDG / IMO

UN no: 3287 **Class:** 6.1
Packing group: III **EmS:** 6.1-02
Marine pollutant: . **Labelling:** 6.1

IATA / ICAO

UN no: 3287 **Class:** 6.1
Packing group: III **Packing instructions:** 618
Quantity: 220 L
Labelling: 6.1

15. REGULATORY INFORMATION

Hazard symbols: Toxic.
Dangerous for the environment.



Risk phrases: R25: Toxic if swallowed.
R36/38: Irritating to eyes and skin.
R50: Very toxic to aquatic organisms.

Safety phrases: S24/25: Avoid contact with skin and eyes.
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S29: Do not empty into drains.
S36/37/39: Wear suitable protective clothing, gloves and eye / face protection.
S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Precautionary phrases: Contains hydroxyphosphonocarboxylic acid. May produce an allergic reaction.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's 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.

16. ADDITIONAL INFORMATION

Risk phrases used in s.2: R8: Contact with combustible material may cause fire.

R25: Toxic if swallowed.

R50: Very toxic to aquatic organisms.

R22: Harmful if swallowed.

R34: Causes burns.

R35: Causes severe burns.

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.