

# SAFETY DATA SHEET

HA45

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Issued: 06/07/03

Revision No: 1

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

**Product name:** HA45

**Use / description of product:** Boiler water treatment. Corrosive, alkaline solutions. The regulatory information is dependent upon the concentration limit of the specific substance.

**Company name:** Howlett Associates Water Treatment Ltd

Challenge House

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Croydon

CR0 3AA

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## 2. COMPOSITION / INFORMATION ON INGREDIENTS

**Ingredients:** CYCLOHEXYLAMINE 10-20%

CAS: 108-91-8

EINECS: 203-629-0

[ - ] R10; [ Xn ] R21/22; [ C ] R34;

- MORPHOLINE 10-20%

CAS: 110-91-8

EINECS: 203-815-1

[ - ] R10; [ Xn ] R20/21/22; [ C ] R34;

## 3. HAZARDS IDENTIFICATION

**Main hazards:** Harmful by inhalation, in contact with skin and if swallowed. Causes burns.

## 4. FIRST AID MEASURES (SYMPTOMS)

**Skin contact:** Irritation or pain may occur at the site of contact. There may be redness or whiteness of the skin in the area of exposure. Blistering may occur. Severe burns may occur.

**Eye contact:** There may be irritation and redness. There may be severe pain. The eyes may water profusely. Corneal burns may occur.

**Ingestion:** There may be soreness and redness of the mouth and throat. There may be difficulty swallowing. Corrosive burns may appear around the lips. Nausea and stomach pain may occur. There may be vomiting. Blood may be vomited.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest. There may be coughing and a sore throat. There may be congestion of the lungs causing severe shortness of breath. There may be loss of consciousness.

## 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.

[cont...]

**Eye contact:** Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

**Ingestion:** Do not induce vomiting. 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. Water spray.

**Exposure hazards:** 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.

**Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding.

**Clean-up procedures:** Mix with sand or vermiculite. Transfer to a suitable container. Wash down the drain with large amounts of water.

## 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.

**Suitable packaging:** Must only be kept in original packaging.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Ingredients:** CYCLOHEXYLAMINE

TWA (8 hr exposure limit): 41 mg/m<sup>3</sup>

- MORPHOLINE

TWA (8 hr exposure limit): 72 mg/m<sup>3</sup> STEL (15 min exposure limit): 109 mg/m<sup>3</sup>

**Engineering measures:** Ensure there is sufficient ventilation of the area.

**Respiratory protection:** Self-contained breathing apparatus must be available in case of emergency.

**Hand protection:** Protective gloves.

**Eye protection:** Safety goggles. Face-shield. Ensure eye bath is to hand.

**Skin protection:** Protective clothing with elasticated cuffs and closed neck. Boots made of PVC. PVC apron covering the tops of the boots. Ensure safety shower is to hand.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**State:** Liquid  
**Colour:** Pale brown  
**Odour:** Pungent  
**Evaporation rate:** Moderate  
**Oxidising:** Non-oxidising (by EC criteria)  
**Solubility in water:** Highly soluble  
**Viscosity:** Non-viscous  
**Relative density:** 0.90-0.95  
**pH:** 9 - 12

**10. STABILITY AND REACTIVITY**

**Materials to avoid:** Strong acids. Finely powdered metals.

**11. TOXICOLOGICAL INFORMATION**

**Ingredients:** CYCLOHEXYLAMINE  
ORL MUS LD50 770 mg/kg  
ORL RAT LD50 11 mg/kg  
SCU MUS LD50 1150 mg/kg

- MORPHOLINE  
ORL MUS LD50 525 mg/kg  
ORL RAT LD50 1450 mg/kg  
ORL RAT LDLO 1600 mg/kg

**12. ECOLOGICAL INFORMATION**

**Mobility:** Soluble in water.  
**Persistence and degradability:** No data available.  
**Bioaccumulative potential:** No bioaccumulation potential.  
**Other adverse effects:** Negligible ecotoxicity.

**13. DISPOSAL CONSIDERATIONS**

**Disposal of packaging:** Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.  
**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

**14. TRANSPORT INFORMATION****ADR / RID**

<b>UN no:</b> 2735	<b>ADR Class:</b> 8
<b>Packing group:</b> III	<b>Hazard ID no:</b> 80
<b>Labelling:</b> 8	

**IMDG / IMO**

**UN no:** 2735 **Class:** 8  
**Packing group:** III **EmS:** 8-05  
**Marine pollutant:** . **Labelling:** 8

**IATA / ICAO**

**UN no:** 2735 **Class:** 8  
**Packing group:** III **Packing instructions:** 820  
**Quantity:** 60 L  
**Labelling:** 8

**15. REGULATORY INFORMATION**

**Hazard symbols:** Corrosive.



**Risk phrases:** R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.  
R34: Causes burns.

**Safety phrases:** S23: Do not breathe vapours.  
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.  
S28: After contact with skin, wash immediately with plenty of water.  
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).

**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:** R10: Flammable.  
R21/22: Harmful in contact with skin and if swallowed.  
R34: Causes burns.  
R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.

**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.