

SAFETY DATA SHEET

HA35

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Revision No: 1

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

Product name: HA35

Use / description of product: Industrial Biocide for use in evaporative cooling systems and process waters. Oxidising.
Corrosive. Solid.

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: 1,3-DICHLORO-5,5-DIMETHYLIMIDAZOLIDINE-2,4-DIONE DCDMH 60-90%

CAS: 118-52-5

[O] R8; [Xn] R22; [-] R31; [C] R34; [Sens.] R43; [N] R50;

- 1,3-DICHLORO-5-ETHYL-5-METHYLIMIDAZOLIDINE-2,4-DIONE DCEMH 10-20%

CAS: 89415-87-2

[O] R8; [Xn] R22; [-] R31; [C] R34; [Sens.] R43; [N] R50;

3. HAZARDS IDENTIFICATION

Main hazards: Contact with combustible material may cause fire. Harmful if swallowed. Contact with acids liberates toxic gas. Causes burns. May cause sensitisation by skin contact. Very toxic to aquatic organisms.

Other hazards: Oxidising.

4. FIRST AID MEASURES (SYMPTOMS)

Skin contact: Irritation or pain may occur at the site of contact. Blistering may occur. Severe burns may occur.

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

Ingestion: It is unlikely that this substance will be swallowed due to its physical properties.

Inhalation: There may be a feeling of tightness in the chest with shortness of breath. Exposure may cause coughing or wheezing. 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.

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

[cont...]

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 or polymer foam. Dry chemical powder.

Exposure hazards: Oxidising. 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: Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not create dust.

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

Clean-up procedures: Transfer to a closable, labelled salvage container for disposal by an appropriate method. Neutralize any residual with alkaline sodium bisulphite solution. Avoid dust formation.

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. Keep away from direct sunlight.

Suitable packaging: Must only be kept in original packaging.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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: Solid

Colour: White

Odour: Characteristic odour

Oxidising: Oxidising (by EC criteria)

Solubility in water: Slightly soluble

Viscosity: Non-viscous

Melting point/range°C: 106- 130

Flash point°C: 181

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Conditions to avoid: Heat. Hot surfaces. Moist air. Humidity.

Materials to avoid: Reducing agents. Acids. Bases. Organic materials.

Haz. decomp. products: Contact with acids liberates toxic gas. In combustion emits toxic fumes.

11. TOXICOLOGICAL INFORMATION

Ingredients: 1,3-DICHLORO-5,5-DIMETHYLIMIDAZOLIDINE-2,4-DIONE DCDMH

ORL RAT LD50 766 mg/kg

SKN RAT LD50 >20 g/kg

- 1,3-DICHLORO-5-ETHYL-5-METHYLIMIDAZOLIDINE-2,4-DIONE DCEMH

ORL RAT LD50 579 mg/kg

SKN RBT OECD 4 Hr Corrosive

Routes of exposure: Refer to section 4 of SDS for routes of exposure and corresponding symptoms.

12. ECOLOGICAL INFORMATION

Ingredients: 1,3-DICHLORO-5,5-DIMETHYLIMIDAZOLIDINE-2,4-DIONE DCDMH

mg/l

- 1,3-DICHLORO-5-ETHYL-5-METHYLIMIDAZOLIDINE-2,4-DIONE DCEMH

Aquatic To ALGAE 72H IC50 0.12 mg/l

Aquatic To BACTERIA OECD 209 26.2 mg/l

Aquatic To FISH 96H LC50 1.1 mg/l

Mobility: Soluble in water.

Persistence and degradability: Biodegradable.

Other adverse effects: Do not allow to enter rivers or lakes.

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: 3085

ADR Class: 5.1

Packing group: II

Hazard ID no: 58

Labelling: 5.1+8

Shipping name: OXIDIZING SOLID, CORROSIVE, N.O.S.

IMDG / IMO

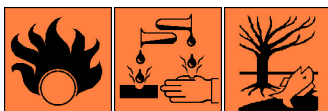
UN no: 3085	Class: 5.1
Packing group: II	EmS: 5.1-05
Marine pollutant: .	Labelling: 5.1+8

IATA / ICAO

UN no: 3085	Class: 5.1
Packing group: II	Subsidiary risk: 8
Packing instructions: 511	Quantity: 25 kg
Labelling: 5.1+8	

15. REGULATORY INFORMATION

Hazard symbols: Oxidising.
Corrosive.
Dangerous for the environment.



Risk phrases: R8: Contact with combustible material may cause fire.
R22: Harmful if swallowed.
R31: Contact with acids liberates toxic gas.
R34: Causes burns.
R43: May cause sensitisation by skin contact.
R50: Very toxic to aquatic organisms.

Safety phrases: S24: Avoid contact with skin.
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).
S61: Avoid release to the environment. Refer to special instructions / safety data sheets.

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.
R22: Harmful if swallowed.
R31: Contact with acids liberates toxic gas.

R34: Causes burns.

R43: May cause sensitisation by skin contact.

R50: Very toxic to aquatic organisms.

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.