

SAFETY DATA SHEET

HA33

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Revision No: 1

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

Product name: HA33

Use / description of product: Industrial Biocide for use in evaporative cooling systems and process waters. Irritant. The regulatory information is dependent upon the concentration limit of the specific substance.

Company name: Howlett Associates Water Treatment Ltd

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2. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients: 5-CHLORO-2-METHYL-2H-ISOTHIAZOL-3-ONE <10%

CAS: 26172-55-4

[C] R34; [Sens.] R43; [T] R23/24/25; [N] R50;

- 2-METHYL-2H-ISOTHIAZOL-3-ONE <10%

CAS: 2682-20-4

[T] R23/24/25; [C] R34; [Sens.] R43; [N] R50;

- GLUTARALDEHYDE <10%

CAS: 111-30-8

EINECS: 203-856-5

[T] R23/25; [C] R34; [Sens.] R42/43; [N] R50;

3. HAZARDS IDENTIFICATION

Main hazards: Irritating to eyes, respiratory system and skin. May cause sensitisation by inhalation and skin contact.

4. FIRST AID MEASURES (SYMPTOMS)

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: Nausea and stomach pain may occur. There may be vomiting. Inhalation of fumes from the stomach may cause symptoms similar to direct inhalation.

Inhalation: Nausea and stomach pain may occur. There may be vomiting. Drowsiness or mental confusion may occur. 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.

[cont...]

Ingestion: Do not induce vomiting. If conscious, give 1 pint of water to drink immediately. 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.

Exposure hazards: 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. Turn leaking containers leak-side up to prevent the escape of liquid.

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

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Wash the spillage site 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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ingredients: GLUTARALDEHYDE

TWA (8 hr exposure limit): 0.2 mg/m³ STEL (15 min exposure limit): 0.2 mg/m³

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

Respiratory protection: No specific recommendations, but respiratory protection may be required under exceptional circumstances.

Hand protection: Protective gloves.

Eye protection: Safety goggles.

Skin protection: Protective clothing with elasticated cuffs and closed neck. Boots made of PVC.

9. PHYSICAL AND CHEMICAL PROPERTIES

State: Liquid

Colour: Pale green

Odour: Characteristic odour

Solubility in water: Soluble

Relative density: 1.015 -1.020

pH: 3-6

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Haz. decomp. products: In combustion emits toxic fumes.

11. TOXICOLOGICAL INFORMATION

Ingredients: 5-CHLORO-2-METHYL-2H-ISOTHIAZOL-3-ONE

ORL RAT LD50 457 mg/kg

SKN RAT LD50 660 mg/kg

- 2-METHYL-2H-ISOTHIAZOL-3-ONE

ORL RAT LD50 457 mg/kg

SKN RBT LD50 660 mg/kg

- GLUTARALDEHYDE

IHL RAT LC50 4Hr 0.28-0.39 mg/l

ORL RAT LD50 320 mg/kg

SKN RBT OECD >2000 mg/kg

12. ECOLOGICAL INFORMATION

Ingredients: 5-CHLORO-2-METHYL-2H-ISOTHIAZOL-3-ONE

Aquatic ALGAE 72H EC50 0.01 mg/l

Aquatic DAPHNIA 48H EC50 0.16 mg/l

Aquatic FISH 96H LC50 0.19 mg/l

- 2-METHYL-2H-ISOTHIAZOL-3-ONE

Aquatic ALGAE 72H EC50 0.01 mg/l

Aquatic DAPHNIA 48H EC50 0.16 mg/l

Aquatic FISH 96H LC50 0.19 mg/l

- GLUTARALDEHYDE

Toxicity FISH 96H LC50 10-100 mg/l

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

13. DISPOSAL CONSIDERATIONS

Disposal operations: Disposal should be carried out by licenced contractors.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. TRANSPORT INFORMATION

ADR / RID

IMDG / IMO

IATA / ICAO

15. REGULATORY INFORMATION

Hazard symbols: Harmful.



Risk phrases: R36/37/38: Irritating to eyes, respiratory system and skin.

R42/43: May cause sensitisation by inhalation and skin contact.

Safety phrases: S23: Do not breathe vapours.

S24/25: Avoid contact with skin and eyes.

S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S36/37/39: Wear suitable protective clothing, gloves and eye / face protection.

S63: In case of accident by inhalation, remove casualty to fresh air and keep at rest.

Precautionary phrases: Contains 5-chloro-2-methyl-2h-isothiazol-3-one, 2-methyl-2h-isothiazol-3-one. 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: R34: Causes burns.

R43: May cause sensitisation by skin contact.

R23/24/25: Toxic by inhalation, in contact with skin and if swallowed.

R50: Very toxic to aquatic organisms.

R23/25: Toxic by inhalation and if swallowed.

R42/43: May cause sensitisation by inhalation and skin contact.

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.