



# SAFETY DATA SHEET

**PRODUCT NAME:** HAMA-CIDE 250

SDS Date of Issue: 26 April 2023

## 1. IDENTIFICATION

**Product Name:** Hama-Cide250

**Product Code:** AHC25020

**Uses:** Biocide for the control of micro-biological growth in industrial cooling water systems

**Restrictions:** Nil

**Supplier:** HamChem Hamilton Chemicals Ltd, 75 Ruffell Rd, Hamilton  
Phone: 079744971 Email: [info@hamchem.nz](mailto:info@hamchem.nz) Web: [www.hamchem.nz](http://www.hamchem.nz)

- In emergency dial 111, and then ask for Fire, Ambulance or Police as necessary.
- In case of poisoning phone National Poisons Centre – 0800 764 766

## 2. HAZARD IDENTIFICATION



### GHS Classifications:

Acute Toxicity (Oral) – Category 4

Skin Irritation – Category 2

Hazardous to the Aquatic Environment (Acute) – Category 1

**Signal word:** WARNING

### Hazard Statements:

H302 – Harmful if swallowed

H315 – Causes skin irritation

H400 – Very toxic to aquatic life

### Prevention:

P264 – Wash hands thoroughly after handling

P270 – Do not eat, drink or smoke when using this product

P280 – Wear protective gloves

P273 – Avoid release to the environment

### Response:

P301 + P332 – IF SWALLOWED: Call a POISON CENTRE or Doctor if you feel unwell

P330 – Rinse mouth

P302 + P352 – IF ON SKIN: Wash with plenty of soap and water.

P332 + P313 – If skin irritation occurs: Get medical advice/attention

P362 + P364 – Take off contaminated clothing and wash it before reuse

P391 – Collect spillage

### Disposal:

P501 – Dispose of contents/container to an approved waste facility in accordance with local regulations

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### 3. COMPOSITION & INFORMATION ON INGREDIENTS

Chemical Entity	CAS No.	Proportion (%)
N,N-Dimethyl-2-hydroxypropylammonium chloride polymer	25988-97-0	25%

### 4. FIRST AID MEASURES

**If swallowed:** Give 3-4 glasses of water to drink. NEVER attempt to induce vomiting. Obtain medical attention promptly.

**If on skin:** Remove all contaminated clothing and footwear. Wash with soap and water. Wash immediately and thoroughly for a prolonged period (at least 15 minutes). Always obtain medical advice immediately.

**If inhaled:** Move the person away from the contaminated area. Make the affected person rest. If not breathing start artificial respiration. Obtain medical attention.

**If in eyes:** Immediately rinse with plenty of running water for a prolonged period (at least 15 minutes) whilst keeping the eyes wide open. Always obtain medical advice immediately, even if there are no symptoms.

**Symptoms and effects (acute and delayed):** Skin contact may aggravate existing skin disease.

### 5. FIRE-FIGHTING MEASURES

**Extinguishing media:** Water fog (if unavailable water spray, foam dry agent carbon dioxide, dry chemical powder).

**Specific hazards:** In a fire may liberate oxides of nitrogen, carbon or hydrogen chloride. Keep containers cool by spraying with water if exposed to fire.

**Protective equipment for firefighters:** Self-contained breathing apparatus should be worn (SCBA).

**Additional advice:** Not expected to burn unless heated to dryness. Residue may ignite.

### 6. ACCIDENTAL RELEASE MEASURES

**Protective measures:** Avoid contact with eyes, skin and respiratory system. If spillage occurs in a public space, indicate the danger and notify the authorities (police, fire brigade). Use full protective clothing and equipment.

**Environmental precautions:** Prevent the product from spreading into the environment. Contain the spilled material by bunding.

#### Methods for cleaning up:

- **Recovery:** Recover as much of the product as possible. Absorb the product onto porous material. Transfer the product into a spare container, suitably labeled. Then take the emergency containers to an area reserved for subsequent recycling or disposal.
- **Neutralisation:** Absorb spillage with diatomaceous earth, sand or inert absorbent.
- **Cleaning/decontamination:** Wash non-recoverable remainder with large amounts of water. Recover the cleaning water for subsequent disposal.
- **Disposal:** Place in an appropriate container and dispose of the contaminated material at a licensed site.

7. HANDLING & STORAGE
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**Procedure for handling:** Keep containers closed when not in use. Avoid contact with eyes, skin and clothing. Do NOT handle without gloves.

**Suitable container:** Polyethylene or polypropylene drums (High density).

**Storage incompatibility:** Strong reducing agents. Strong oxidizing agents. Strong acids. Strong bases.

**Storage requirements:** Store in a cool and dry area.

8. EXPOSURE CONTROLS & PERSONAL PROTECTION
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**Exposure standards:** No value assigned for this specific materials by Worksafe NZ. Exposure standard for dust not otherwise specified is 10mg/m<sup>3</sup> (for inspirable dust) and 3mg/m<sup>3</sup> (respirable dust).

**Engineering controls:** Avoid splashes (appropriate clothing, protective screens on machines etc). Ensure good ventilation of the work station to keep airborne concentrations below exposure limits and as low as practicable. Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, local exhaust ventilation may be required.

**Personal protective equipment:**

**Eye/face protection:** Safety glasses with side shields, or splash-proof chemical goggles, and a full-face shield. Final choice of appropriate eye/face protection will vary according to individual circumstances i.e. methods of handling or engineering controls and according to risk assessments undertaken. Eye protection should conform to Australian/New Zealand Standard AS/NZS 1337 – Eye Protectors for Industrial Applications.

**Hand protection:** Glove material: protective gloves made of PVC.

Thickness: 1.23mm

Breakthrough time: >480 minutes

Protection class: 6

Glove material: Nitrile protective gloves

Thickness: 1.23mm

Breakthrough time: >480 minutes

Protection class: 6

Use suitable chemical-resistant protective gloves. Protective gloves must be chosen accordingly to the function of the work station: other chemicals which may be handled, physical protection necessary (resistance to cutting, puncture, heat), dexterity required. The selection of gloves must be taken into account the extent and duration of use at the workstation. Reference should be made to AS/NZS 2162:1 Occupational protective gloves – Selection, use and maintenance.

**Respiratory protection:** Avoid breathing of vapours/mists. If mist is formed select and use respiratory protective device with a particle filter. Select and use respirators in accordance with AS/NZS 1715/1216. Filter capacity and respirator type depends on exposure levels and type of contaminant. If entering spaces where the airborne concentration of a contaminant is unknown then the use of a self-contained breathing apparatus (SCBA) with positive pressure air supply complying with AS/NZS 1715/1716, or any other acceptable International Standard is recommended.

**Body protection:** Wear suitable long-sleeved clothing (i.e. shirts and pants) including a chemical resistant apron where clothing is likely to be contaminated. Consideration must be given both to durability as well as permeation resistance. It is advisable that a local supplier of personal protective clothing is consulted regarding the choice of material.

**Workplace hygiene measures:** Use clean and correctly maintained personal protective equipment. Keep personal protective equipment in a clean place, away from the work area. Always wash your hands

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immediately after handling this product, and once again before leaving the workplace. Do NOT eat or drink in the workplace.

**Further information:** The user is responsible for monitoring the working environment in accordance with local laws and regulations.

<b>9. PHYSICAL &amp; CHEMICAL PROPERTIES</b>
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Appearance	Bright yellow liquid
pH	6.5-8.5 (10% solution)
Specific Gravity	1.14-1.16
Melting Point/Freezing Point (°C)	n/a
Initial Boiling Point (°C)	n/a
Flash Point (°C)	107°C
Solubility	Completely soluble

<b>10. STABILITY &amp; REACTIVITY</b>
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**Stability:** Stable under normal conditions of use

**Hazardous decomposition products:** Oxides of nitrogen, carbon dioxide and/or carbon monoxide, and hydrogen chloride may be formed in a fire.

**Hazardous polymerization:** Will not occur

**Incompatibles:** Strong bases. Strong reducing agents. Strong acids. Strong oxidizing agents.

**Conditions to avoid:** Temperatures over 140°C

<b>11. TOXICOLOGICAL INFORMATION</b>
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**Acute Health Effects**

**Swallowed:** Harmful if swallowed. Ingestion will result in immediate burning pain in mouth and throat.

**Eye:** Direct contact will cause severe damage to eyes. Corrosive.

**Skin:** Direct or prolonged contact can produce severe irritation. Corrosive.

**Inhaled:** Solvent vapours or mist of product can produce irritation of mucous membranes.

<b>12. ECOLOGICAL INFORMATION</b>
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**Ecotoxicity (Aquatic & Terrestrial):**

*Ceriodaphnia Dubia* (Crustacean) – LC50 (48hours): 0.08mg/L

**Persistence & degradability:** Readily biodegradable

**Bioaccumulative potential:** Bio accumulative in organisms. Partition coefficient n-octanol/water >4,7

**Mobility in soil:** No data available

**Other adverse effects:** None known

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<b>13. DISPOSAL CONSIDERATIONS</b>
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**Appropriate disposal methods:** Use all the product, including the rinse water. Dispose of contents/container to an approved waste facility in accordance with local, regional and national regulations.

**Special precautions:** Avoid discharge to drain or surface water.

<b>14. TRANSPORT INFORMATION</b>
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<b>UN Number:</b>	3082
<b>UN Proper Shipping name:</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (Dimethylamine, epichlorohydrin polymer)
<b>UN Dangerous Goods Class:</b>	9
<b>UN Packing group:</b>	III
<b>Special precautions:</b>	Nil

<b>15. REGULATORY INFORMATION</b>
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<b>HSNO Approval number:</b>	HSR002684 – Water Treatment Chemicals (Subsidiary Hazard) Group Standard 2020
<b>HSNO Classifications:</b>	6.1D, 6.3A, 9.1A

<b>16. OTHER INFORMATION</b>
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End of SDS.