

SAFETY DATA SHEET

HYDRO 256

Infosafe No.: HC04M
ISSUED Date : 19/02/2018
ISSUED by: Hydro-Chem Pty Ltd

1. IDENTIFICATION

GHS Product Identifier

HYDRO 256

Product Code

256

Product Type

WATER TREATMENT BIOCIDES

Company Name

Hydro-Chem Pty Ltd

Address

23B Industrial Drive Braeside
VIC 3195

Telephone/Fax Number

Tel: (03) 9553 1011

Emergency phone number

1300 558 788

Emergency Contact Name

Tony Ventura

Recommended use of the chemical and restrictions on use

Initial Dose - Use at the rate of 300 ml Hydro 256 per 1000 Litres of water.
Maintenance Dose - 150 ml Hydro 256 per 1000 Litres of water.
Consult your HydroChem technical representative for specific recommendations.

Additional Information

Product Description : Biocide for use in open cooling water recirculating systems.

2. HAZARD IDENTIFICATION

GHS classification of the substance/mixture

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

Sensitization - Respiratory: Category 1

Sensitization - Skin: Category 1

Skin Corrosion/Irritation: Category 1C

Signal Word (s)

DANGER

Hazard Statement (s)

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Pictogram (s)

Corrosion, Health hazard



Precautionary statement – Prevention

- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P264 Wash contaminated skin thoroughly after handling.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P285 In case of inadequate ventilation wear respiratory protection.

Precautionary statement – Response

- P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
- P302+P352 IF ON SKIN: Wash with plenty of soap and water.
- P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 Immediately call a POISON CENTER or doctor/physician.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
- P363 Wash contaminated clothing before reuse.

Precautionary statement – Storage

- P405 Store locked up.

Precautionary statement – Disposal

- P501 Dispose of contents/container to / in accordance with local regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Name	CAS	Proportion
1,5 Pentanedial	111-30-8	0-10 %
5-Chloro-2-methyl-4-isothiazolin-3-one	26172-55-4	0-10 %
2-Methyl-4-isothiazolin-3-one	2682-20-4	0-10 %

4. FIRST-AID MEASURES

Inhalation

Move individual to fresh air. Give artificial respiration if breathing has stopped. If symptoms persist, obtain medical attention.

Ingestion

Give water to drink. DO NOT induce vomiting.
Seek immediate medical assistance.

Skin

Wash with plenty of soap and water.
Remove contaminated clothing and wash before re-use.
If persistent irritation occurs, obtain medical attention.
Decontaminate clothing by treating with 10% solution of sodium metabisulphite.

Eye contact

Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open.
Seek medical attention.

Advice to Doctor

Mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsions may be required.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use appropriate fire extinguisher for surrounding environment.

Specific Hazards Arising From The Chemical

Special Fire Fighting Procedures: Wear respirator (pressure demand, self-contained breathing apparatus, MSHA/NIOSH approved or equivalent) and full protective gear. Use water spray to cool fire exposed containers. Extinguishing Media: Water fog or spray.

Hazchem Code

2X

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures

Spill - Wear protective clothing, splash proof goggles and impervious over-shoes. Remove contaminated clothing promptly, launder thoroughly before re-use. Wash affected skin with soap and water.

CAUTION: Keep spills out of municipal sewers and open bodies of water. Dike and absorb spill with inert material (dry earth, sand). Shovel all contaminated solids, diking material, absorbent and soil into corrosion proof drums for storage until disposal.

Spills & Disposal

CAUTION: Keep spills out of municipal sewers and open bodies of water. Dike and absorb spill with inert material (dry earth, sand). Shovel all contaminated solids, diking material, absorbent and soil into corrosion proof drums for storage until disposal.

Disposal - When discarded, this material is a hazardous waste. Incinerate liquid and contaminated diking material, at a permitted facility in accordance with Local and State Regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Handle and open containers with care.

Only use in well-ventilated areas.

Gently agitate drums before use to ensure homogeneity.

Ensure the appropriate personal protective equipment is used when handling this material.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed and in a cool, well-ventilated place

Keep away from direct sunlight and other sources of heat or ignition.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limit values

TLV 0.1 mg/m³ and STEI 0.3 mg/m³ for total isothiazolones.

NOTE : Manufacturer's Recommendations.

Appropriate Engineering Controls

Mechanical local exhaust at point of contaminant (vapour or mist) release.

Personal Protective Equipment

Respiratory Protection: Wear MSHA/NIOSH - approved respirator suitable for concentrations encountered where exposure limits are exceeded.

Protective Gloves: PVC or butyl rubber

Eye Protection: Splash proof goggles and face shield.

Other Protective Equipment: Impervious apron, eyewash facility, emergency shower, impervious overshoes.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form

Liquid

Appearance

Pale yellow liquid with a sharp odour.

Boiling Point

100°C

Specific Gravity

1.02 to 1.04 @20C

pH

3 to 5

Vapour Pressure

0.1 mmHg @ 25°C

Flash Point

> 100°C

Flammability

Not flammable under conditions of use.

Flammable Limits - Lower

Not Allocated

Other Information

Solubility in water: 100%

10. STABILITY AND REACTIVITY

Possibility of hazardous reactions

Stable.

Conditions to Avoid: Evaporation to dryness: nitrates can explode

11. TOXICOLOGICAL INFORMATION

Toxicology Information

as 1,5 Pentandial oral LD50(rat) 134 mg/kg.

as Isothiazolones oral LD50(rat) 457 mg/kg.

Ingestion

Ingestion can result in nausea, vomiting, diarrhoea, abdominal pain, and/or convulsions.

Harmful if swallowed. Toxic effects resulting.

Inhalation

Inhalation of mists and aerosols may produce respiratory irritation. Irritation of the mucous membranes of the nose and throat may occur. Possible harmful corrosive effects.

Skin

Repeated or prolonged skin contact may lead to dermatitis effects. May cause sensitisation by skin contact. Corrosive to skin depending on exposure time.

Eye

Corrosive to eyes.

Chronic Effects

This product is a skin sensitizer. Repeated or prolonged exposure may cause allergic contact dermatitis.

12. ECOLOGICAL INFORMATION**Environmental Protection**

Acute Aquatic LC50: (active ingredient) - (1) Bluegill - 0.56 ppm (2) R. Trout - 0.14 ppm (3) D. magna 0.13 ppm (4) Sheepshead minnow 0.3ppm

Acute Avian LD50: (act. ingredient) - Bobwhite quail 85 mg/kg

13. DISPOSAL CONSIDERATIONS**Waste Disposal**

Refer to State Land Waste Management Authority or a Licensed disposal contractor for disposal.

Empty containers must be decontaminated, rinse with water before landfill disposal.

14. TRANSPORT INFORMATION**U.N. Number**

3265

UN proper shipping name

CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.

Transport hazard class(es)

8

Packing Group

III

Hazchem Code

2X

Storage and Transport

Dangerous Goods Class 8. Packaging Group: III

Must be stored and transported in accordance with State and Territory dangerous goods regulations.

Observe the requirements of the Australian Code for the transport of dangerous goods by road and rail.

IERG Number

37

15. REGULATORY INFORMATION**Poisons Schedule**

S6

Packaging & Labelling

As required by the ADG Code and the Standard for the Uniform Scheduling of Drugs and Poisons.

16. OTHER INFORMATION**Contact Person/Point**

Normal Working Hours - Ph: (03) 9553 1011 Fax: (03) 9553 1387

Ask for the Facilities Manager, Sales Manager or Services Manager.

After Hours - Ph : 1300 558 788

Further information/advice is available to those persons responsible for the design of safe work practices on their written request

to HydroChem.

This SDS summarises to the best of our knowledge at the date of issue, the health and safety hazard information of the selected substance and how to safely handle the selected substance in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace, including in conjunction with other products.

Hydro-Chem Pty Ltd responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.

If clarification or further information is required, the user should contact Hydro-Chem Pty Ltd using the contact details provided.

END OF SDS

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