

# SAFETY DATA SHEET

**HYDRO 255**

Infosafe No.: HC029  
ISSUED Date : 03/04/2018  
ISSUED by: Hydro-Chem Pty Ltd

## 1. IDENTIFICATION

**GHS Product Identifier**

HYDRO 255

**Product Code**

255

**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 1 Litre Hydro 255 per 1000 Litres of water.

Maintenance Dose : Use at the rate of 200 ml Hydro 255 per 1000 Litres of water.

Consult your HydroChem technical representative for specific recommendation.

**Other Names**

Name	Product Code
5-Chloro-2-methyl-4-isothiazolin-3-one	

**Additional Information**

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

## 2. HAZARD IDENTIFICATION

**GHS classification of the substance/mixture**

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) including Work, Health and Safety Regulations, Australia.

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

Sensitization - Skin: Category 1

Skin Corrosion/Irritation: Category 1A

**Signal Word (s)**

DANGER

**Hazard Statement (s)**

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

**Pictogram (s)**

Corrosion, Exclamation mark



**Precautionary statement – Prevention**

P260 Do not breathe 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.

**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.

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.

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

**Information on Composition**

All ingredients in this product are listed on the Australian Inventory of Chemical Substances (AICS).

**Ingredients**

Name	CAS	Proportion
Water	7732-18-5	TO 100%
2-Methyl-4-isothiazolin-3-one	2682-20-4	0-10 %
5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE	26172-55-4	0-10 %

### 4. FIRST-AID MEASURES

**Inhalation**

Seek medical treatment in case of symptoms.

**Ingestion**

Rinse mouth thoroughly with water immediately.

Give water to drink. DO NOT induce vomiting.

Seek medical attention.

**Skin**

Wash with plenty of soap and water.

Remove contaminated clothing and wash before re-use.

If swelling, redness, blistering or irritation occurs seek medical advice.

**Eye contact**

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

**Most important symptoms/effects, acute and delayed**

Allergic skin reactions.

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## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**

Extinguishing Media : Foam, water spray or fog, Dry chemical powder or Carbon dioxide.

**Specific Methods**

Wear respirator (pressure demand, self- contained breathing apparatus, MSHA/NIOSH approved or equivalent) and full protective gear.

**Specific Hazards Arising From The Chemical**

Under certain fire conditions traces of toxic gases can be released.

**Hazchem Code**

2X

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## 6. ACCIDENTAL RELEASE MEASURES

**Emergency Procedures**

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.

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## 7. HANDLING AND STORAGE

**Precautions for Safe Handling**

Ventilate workplace in such a way that the Occupational Exposure Limit (OEL) is not exceeded.  
Prevent formation of aerosols.

**Conditions for safe storage, including any incompatibilities**

Keep container tightly closed  
Keep away from direct sunlight

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Occupational exposure limit values**

TLV 0.1 mg/m<sup>3</sup> and STEI 0.3 mg/m<sup>3</sup> for total isothiazolones.

**Appropriate Engineering Controls**

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

**Respiratory Protection**

Use breathing protection when aerosol or mist is formed.  
Half or Full mask with combination filter A2B2E2K2HG-P3 is recommended.

**Eye Protection**

Splash proof goggles/glasses or face shield.

**Hand Protection**

Nitrile-rubber.

**Body Protection**

Appropriate impervious protective clothing where large volumes of product are in use.

**Hygiene Measures**

Laundry contaminated clothing before re-use.

Wash hands before eating, drinking, smoking and using the toilet.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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**Form**

Liquid

**Appearance**

Pale yellow/green liquid with a mild aromatic odour.

**Boiling Point**

100°C

**Solubility in Water**

100%

**Specific Gravity**

1.03 +/- 0.01 at 20°C

**pH**

2 - 2.5

**Vapour Pressure**

0.1 mmHg @ 25°C

**Flash Point**

Not applicable.

**Flammability**

Not flammable under conditions of use.

**Flammable Limits - Lower**

Not Allocated

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**10. STABILITY AND REACTIVITY**

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**Chemical Stability**

Stable.

**Conditions to Avoid**

Protect against temperatures > 60°C.

**Incompatible materials**

Nucleophils, Reduction agents, Strong oxidising agents, Alkalis and Amines.

**Possibility of hazardous reactions**

Corrosive action on metals.

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**11. TOXICOLOGICAL INFORMATION**

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**Ingestion**

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

**Inhalation**

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

**Skin**

Contact with skin will result in severe irritation. May cause sensitisation by skin contact. Corrosive effect depending on contact time.

**Eye**

Corrosive to eyes.

**Chronic Effects**

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

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**12. ECOLOGICAL INFORMATION**

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**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

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**13. DISPOSAL CONSIDERATIONS**

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**Waste Disposal**

When discarded, this material is a hazardous waste. Product must be disposed of at a permitted facility in accordance with Local and State Regulations.

**Container Disposal**

Empty contaminated container thoroughly. They can be recycled after thorough and proper cleaning or rinse before landfill disposal.

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**14. TRANSPORT INFORMATION**

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**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**

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

**IERG Number**

37

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**15. REGULATORY INFORMATION**

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**Poisons Schedule**

S6

**Packaging & Labelling**

Labelling requirements of the Standard for Uniform Scheduling of Drugs and Poisons do not apply to a poison that is packed and sold solely for industrial, laboratory or manufacturing purposes; however is labelled in accordance with the National Occupational Health and Safety Commission's 'National Code of Practice for the Labelling of Workplace Substances'.

## 16. OTHER INFORMATION

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### 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.

### Revisions Highlighted

Section(s) : 2.

## END OF SDS

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