

SAFETY DATA SHEET

HYDRO 375

Infosafe No.: MTHP4
ISSUED Date : 22/06/2016
ISSUED by: Hydro-Chem Pty Ltd

1. IDENTIFICATION

GHS Product Identifier

HYDRO 375

Product Code

375

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

Normally use at the rate of 0.7 - 7 gram per 1000 Litres of water.
Consult your HydroChem technical representative for specific recommendations.

Additional Information

Microbiocide 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)

Acute Toxicity - Inhalation: Category 4

Acute Toxicity - Oral: Category 4

Corrosive to Metals: Category 1

Eye Damage/Irritation: Category 1

Oxidizing Solids: Category 3

Skin Corrosion/Irritation: Category 1

Signal Word (s)

DANGER

Hazard Statement (s)

H272 May intensify fire; oxidiser.

H290 May be corrosive to metals.

H302 Harmful if swallowed.
 H314 Causes severe skin burns and eye damage.
 H318 Causes serious eye damage.
 H332 Harmful if inhaled.

Pictogram (s)

Flame over circle, Corrosion, Exclamation mark



Precautionary statement – Prevention

P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
 P220 Keep/Store away from clothing/combustible materials.
 P221 Take any precaution to avoid mixing with combustibles
 P234 Keep only in original container.
 P260 Do not breathe dust/fume/gas/mist/vapours/spray.
 P264 Wash contaminated skin thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P271 Use only outdoors or in a well-ventilated area.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statement – Response

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
 P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
 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.
 P312 Call a POISON CENTER or doctor/physician if you feel unwell.
 P330 Rinse mouth.
 P363 Wash contaminated clothing before reuse.
 P370+P378 In case of fire: Use CO2/Dry chemical/foam for extinction.
 P390 Absorb spillage to prevent material damage.

Precautionary statement – Storage

P405 Store locked up.
 P406 Store in corrosive resistant/ container with a resistant inner liner.

Precautionary statement – Disposal

P501 Dispose of contents/container to / in accordance to 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
1-bromo-3-chloro-5,5-dimethylhydantoin	16079-88-2	60-100 %
Inert Ingredients		TO 100%

4. FIRST-AID MEASURES

Inhalation

Remove source of exposure or move person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms. Call a POISON CENTRE/doctor.

Ingestion

Immediately call a POISON CENTRE/doctor. Do Not induce vomiting. If vomiting occurs naturally, lie person on their side, in the recovery position.

Skin

Take off immediately contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Rinse skin with soap and water. Immediately call POISON CENTRE/doctor if irritation persists. Wash contaminated clothing before re-use.

Eye contact

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

Seek immediate medical assistance.

Call a POISON CENTRE/doctor. Continue rinsing until medical aid is available.

Most important symptoms/effects, acute and delayed

Contact with skin/eyes can cause irritation or severe burns and scarring with greater exposures. Causes irritation of eyes and with greater exposures it can cause burns that may result in permanent impairment of vision.

Indication of any immediate medical attention and special treatment needed : Treat symptomatically

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Extinguish fire with the following: Use CO₂, dry chemical or foam.

Hazards from Combustion Products

Oxidizing material. Forms explosive mixtures with combustible, organic or other easily oxidizable materials.

Specific Hazards Arising From The Chemical

Hazardous decomposition products of heating and/or burning:

Hydrogen chloride.

Oxides of nitrogen

Hydrogen bromide

Bromide gas

Keep containers cool with water spray.

DO NOT BREATHE FUMES

Hazchem Code

1W

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures

Evacuate the area of all non-essential personnel. Avoid contact with skin and eyes during clean-up operation. Wear impervious overalls, PVC or nitrile rubber gloves, safety shoes or boots - chemical resistant splash goggles must be worn during spill or deactivation of this material. Prevent from spreading or entering into drains, ditches or rivers by using sand, earth, or other appropriate barriers. Re-collect in original container if possible. Normally suitable for disposal at an approved land/recycling waste site. Empty containers MUST BE decontaminated before disposal.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Do not open containers, avoid release of chemical.
Always wear gloves when handling this product refer to Section 8.
If chemical is released refer to Section 6.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well ventilated area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limit values

No data supplied.
TLV not established

Appropriate Engineering Controls

Use with adequate ventilation.
Avoid generating and inhaling dusts.
Forced air, local exhaust or open air is adequate.

Personal Protective Equipment

Wearing of the following personal protective equipment is recommended.
Safety glasses, goggles or faceshield as appropriate.
Rubber gloves.
Avoid inhaling the vapour, mist or dust.
Suitable respirator.
Selection of the correct cartridge or canister is essential.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form

Solid

Appearance

White to off-white tablets.(20 gram weight)

Odour

Pungent/Chlorine like odour.

Melting Point

Data not available.

Boiling Point

Data not available.

Solubility in Water

Partially soluble

pH

3 - 5 (1% solution)

Flash Point

Data not available.

Flammability

Non flammable.

10. STABILITY AND REACTIVITY

Incompatible materials

OXIDIZING material. Forms explosive mixtures with combustible, organic or other easily combustible materials.

Possibility of hazardous reactions

STRONG OXIDIZING AGENT !!! Mix only with water. Use clean dry utensils. Do not add this product to any dispensing device containing remnants of any other product. Such use may cause a violent reaction leading to fire or explosion. Contamination with moisture, organic matter, or other chemicals may start a chemical reaction with generation of heat, liberation hazardous gases and possible geration of fire and explosion. In case of contamination or decomposition, do not reseal container. If possible, isolate container in open air or well-ventilated area. Flood with large volumes of water, if necessary.

Hazardous Decomposition Products :

Thermal decomposition products may yield the following : Hydrogen bromide-bromide gas-hydrogen chloride

Hazardous polymerization : Product will not undergo polymerization.

11. TOXICOLOGICAL INFORMATION

Toxicology Information

Toxicological data : ATE (Acute Toxicity Estimates)

ATE oral = 335 mg/kg

ATE dermal = > 2000 mg/kg

ATE Inhalation = 1.1 mg/L

Acute Data

Oral LD50 (rat) = 929 mg/kg

Mutagenicity Data

Ames mutagenicity: Negative.

Sensitivity Data

Sensitization - human: Possible skin sensitization.

Ingestion

Corrosive ! Swallowing causes severe burns of mouth, throat and stomach. Severe scarring of tissue, corrosion permanent tissue destruction and death may result. Symptoms may include severe pain, nausea, vomiting, diarrhea, shock, hemorrhaging and/or fall in blood pressure. Damage may appear days after exposure.

Inhalation

Inhalation of dust may result in respiratory irritation.

Effects from inhalation of mist vary from mild irritation to serious damage of the upper respiratory tract, depending on the severity of exposure.

Symptoms may include sneezing, sore throat or runnig nose. Severe pneumonitis may occur.

Skin

Contact with skin may result in irritation.

Prolonged or repeated exposure may cause skin sensitization.

Can cause superficial burns and scarring after prolonged contact.

Contact with MOIST skin will cuase the following;

-severe skin burns.

Eye

Corrosive! Causes irritation of eyes and with greater exposures it can cause burns that may result in permanent impairment of vision, even blindness.

Mutagenicity

No known effects on humans or animals.

Skin Sensitisation

Prolonged contact can lead to sensitisation at the contact area.

Carcinogenicity

No components are listed as carcinogens by ACGIH, IRAC, OSHA or NTP.

Reproductive Toxicity

No known effects on humans or animals.

STOT-single exposure

No known effects on humans or animals.

STOT-repeated exposure

No known effects on humans or animals.

12. ECOLOGICAL INFORMATION

Environmental Protection

This biocide is toxic to fish. DO NOT discharge into lakes, streams, ponds, public water; unless in accordance with NPDES permit. For guidance, contact your Regional Office of the EPA. DO NOT contaminate water by cleaning of container and equipment or disposal of wastes. Apply this biocide only as specified on this label.

Environmental Toxicity;

Bobwhite quail, Dietary LC50: >5620ppm

Bobwhite quail, Oral LD50: 1839mg/kg

Mallard duck, Dietary LC50: >5620 ppm

Rainbow trout (*Salmo gairdneri*), 96 hour LC50 Static: 0.4mg/l

Bluegill sunfish (*Lepomis macrochirus*), 96 hour LC50 Static: 0.46mg/l

Daphnia magna, 48 hour LC50: 0.75mg/l

All results are based on a nominal concentration of active ingredient.

13. DISPOSAL CONSIDERATIONS

Disposal considerations

Material should be disposed of in accordance with local, state and federal regulations. Small quantities can be dissolved in water and flushed to sewer with excess water.

Container Disposal

Empty containers must be decontaminated, rinse with water before landfill disposal. Consider sending empty containers to approved drum recyclers for large quantities.

14. TRANSPORT INFORMATION

U.N. Number

3085

UN proper shipping name

OXIDIZING SOLID, CORROSIVE, N.O.S.(1-Bromo-3-Chloro-5,5-Dimethylhydantoin)

Transport hazard class(es)

5.1

Sub.Risk

8

Packing Group

II

Hazchem Code

1W

Storage and Transport

Keep containers closed at all times.

Store in a cool,dry place.

Store away from sources of heat or ignition.

IERG Number

31

15. REGULATORY INFORMATION

Poisons Schedule

Not Scheduled

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

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.

Manufacturers Advice

DIRECTIONS FOR USE: It is a violation of Federal law to use this product in a manner inconsistent with its labelling.

Other Information**ABBREVIATIONS:**

ACGIH - American Conference of Government Industrial Hygienists

OSHA - Occupational Safety and Health Information

TLV - Threshold Limit

END OF SDS

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