

# SAFETY DATA SHEET

**HYDRO 438**

Infosafe No.: HC056  
ISSUED Date : 25/10/2016  
ISSUED by: Hydro-Chem Pty Ltd

## 1. IDENTIFICATION

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**GHS Product Identifier**

HYDRO 438

**Product Code**

438

**Product Type**

BOILER WATER CORROSION AND SCALE PREVENTATIVE

**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 80 - 160 g Hydro 438 per 1000 L of system water.  
Actual quantities required depend on a number of factors.  
Consult your HydroChem technical representative for specific recommendation.

**Additional Information**

Product Description: A corrosion and scale preventative for steam generators and boilers.

## 2. HAZARD IDENTIFICATION

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**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.

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

Eye Damage/Irritation: Category 2A

Skin Corrosion/Irritation: Category 2

STOT Single Exposure: Category 3 (respiratory tract irritation)

**Signal Word (s)**

WARNING

**Hazard Statement (s)**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

**Pictogram (s)**

Exclamation mark



**Precautionary statement – Prevention**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash contaminated skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Precautionary statement – Response**

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

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.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

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

P337+P313 If eye irritation persists: Get medical advice/attention.

P362 Take off contaminated clothing and wash before reuse.

**Precautionary statement – Storage**

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

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
Sodium carbonate	497-19-8	10-30 %
Sodium hydroxide	1310-73-2	0-10 %

### 4. FIRST-AID MEASURES

**Inhalation**

Remove to fresh air.

If rapid recovery does not occur, obtain medical attention.

**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.

If persistent irritation occurs, obtain medical attention.

**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**

Consult Poisons Information Centre.  
Treat symptomatically.

**5. FIRE-FIGHTING MEASURES**

**Fire Fighting Measures**

As in any fire, wear an approved self-contained breathing apparatus in pressure-demand, and full protective gear.

**Suitable Extinguishing Media**

Extinguishing Media: Use appropriate fire extinguisher for surrounding environment.

**Specific Hazards Arising From The Chemical**

No unusual fire or explosion hazards.

**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. Sweep up/collect into corrosion proof drums for reuse or disposal. Wash away residues with water. Empty containers MUST BE decontaminated before disposal.

**Spills & Disposal**

Collect and clean/refine for re-use.  
Sweep up, but avoid generating dust.  
Wash away residues with water.  
Flush to sewer as a greatly diluted solution.

**7. HANDLING AND STORAGE**

**Precautions for Safe Handling**

Handle and open containers with care.  
Ensure the appropriate personal protective equipment is used when handling this material.

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

Store in cool place and out of direct sunlight.  
Keep container tightly closed and dry  
Keep product dry to prevent lumping or possible deterioration.  
Protect from frost.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Occupational exposure limit values**

Substance	Regulations	Exposure Duration	Exposure Limit	Units	Notes
Sodium hydroxide		TWA	2	mg/m3	

**Appropriate Engineering Controls**

Use with adequate ventilation.  
Maintain concentration below recommended exposure limit.

**Respiratory Protection**

Wear suitable respiratory protective equipment if exposure to levels above the occupational exposure limit is likely.

**Personal Protective Equipment**

Wearing of the following personal protective equipment is recommended.

Chemical goggles.

PVC or rubber gloves.

#### Hygiene Measures

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

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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#### Form

Solid

#### Appearance

Greyish/brown free flowing powder, no odour.

#### Boiling Point

Not Allocated

#### Specific Gravity

Not Allocated

#### Vapour Pressure

Not Allocated

#### Flash Point

Not Allocated

#### Flammability

Non flammable.

#### Flammable Limits - Lower

Not Allocated

#### Other Information

Solubility: 15g/100 cc in water.

Non-flammable.

## 10. STABILITY AND REACTIVITY

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#### Chemical Stability

Stable under normal use conditons.

#### Conditions to Avoid

Avoid extreme heat, high temperatures and moisture.

#### Incompatible materials

Acids, ammonium salts, aluminium, zinc, tin and sources of ignition.

#### Hazardous Decomposition Products

Hydrogen gas and ammonium gas.

#### Possibility of hazardous reactions

Reacts violently with acids. Reacts with ammonium salts liberating ammonia gas. Absorbs carbon dioxide from air. Reacts exothermically on dilution with water.

## 11. TOXICOLOGICAL INFORMATION

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#### Toxicology Information

Sodium Hydroxide - Acute tox. data: Oral LDLO(rabbit) = 500 mg/kg  
ipLD50(mice) = 40 mg/kg

Sodium Carbonate - Acute tox. data: Oral LDLO(rat) = 4000 mg/kg  
ipLD50(mice) = 117 mg/kg

**Ingestion**

May cause severe burns to the mouth, throat and stomach.  
Ingestion can result in nausea, vomiting, diarrhoea, abdominal pain, and/or convulsions.

**Inhalation**

Possible allergic reactions.

**Skin**

Repeated or prolonged skin contact may lead to dermatitic effects.  
Causes burns.

**Eye**

A severe eye irritant.

**Chronic Effects**

May cause allergic response.

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## 12. ECOLOGICAL INFORMATION

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**Ecotoxicity**

Data not available.

**Persistence and degradability**

Data not available

**Mobility**

Data not available

**Bioaccumulative Potential**

Data not available

**Environmental Protection**

This substance may be hazardous to the environment; special attention should be given to prevention of spillages and the possible contamination of waterways.

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## 13. DISPOSAL CONSIDERATIONS

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**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.

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## 14. TRANSPORT INFORMATION

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**U.N. Number**

None Allocated

**UN proper shipping name**

None Allocated

**Transport hazard class(es)**

None Allocated

**Storage and Transport**

No special precautions required.  
Store in cool place and out of direct sunlight.  
Ensure containers are clearly labelled.  
Keep containers closed at all times.

## 15. REGULATORY INFORMATION

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### 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

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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.

## END OF SDS

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