

# SAFETY DATA SHEET

**HYDRO 544**

Infosafe No.: HC02M  
ISSUED Date : 29/08/2016  
ISSUED by: Hydro-Chem Pty Ltd

## 1. IDENTIFICATION

### GHS Product Identifier

HYDRO 544

### Product Code

544

### Product Type

ALKALINE CLEANING AGENT

### 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 1 - 5 Litres Hydro 544 per 1000 Litres of water.  
Consult your HydroChem technical representative for specific recommendation.

### Additional Information

Product Description : An alkaline cleaning agent.

## 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)

Eye Damage/Irritation: Category 1

Skin Corrosion/Irritation: Category 1A

STOT Single Exposure: Category 3 (respiratory tract irritation)

### Signal Word (s)

DANGER

### Hazard Statement (s)

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

### Pictogram (s)

Corrosion, Exclamation mark



#### 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.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.

#### Precautionary statement – Response

- 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.
- P363 Wash contaminated clothing 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.

#### Other Information

Considered to be harmful by all exposure routes. As with any industrial chemical ingestion, inhalation of vapours, prolonged or repeated skin contact should be avoided by good standards of industrial hygiene. Strong alkali can kill if swallowed. Highly corrosive to skin, eyes and any tissue with which it comes into contact. Contamination of eyes can result in permanent injury and possible loss of sight.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Information on Composition

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

#### Ingredients

| Name                | CAS       | Proportion |
|---------------------|-----------|------------|
| Potassium hydroxide | 1310-58-3 | 10-30 %    |
| Sodium metasilicate | 6834-92-0 | 10-30 %    |

### 4. FIRST-AID MEASURES

#### Inhalation

Remove victim from exposure - avoid becoming a casualty.  
Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered.

#### Ingestion

Give water to drink. DO NOT induce vomiting.  
Rinse mouth thoroughly with water immediately.  
Seek immediate medical assistance.

### **Skin**

Wash affected areas with copious quantities of 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.  
Urgently seek medical assistance. Transport to hospital or medical centre.

### **First Aid Facilities**

Provide general supportive measures (comfort, warmth, rest). Consult a physician and/or the nearest Poison Control Centre for all exposures except minor instances of inhalation or skin contact.

### **Advice to Doctor**

Treat symptomatically as for strong alkalis.

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## **5. FIRE-FIGHTING MEASURES**

### **Suitable Extinguishing Media**

Extinguishing Media : Water jets, water fog or spray, foam, dry agent, carbon dioxide.

### **Specific Hazards Arising From The Chemical**

Special Fire Fighting Procedures: If product is involved in a fire then fire fighters must be warned of corrosive (skin and metal) nature of the material  
Unusual Fire and Explosion Hazards: There is a possibility of hydrogen formation from contact with aluminium and some other non-ferrous metals.

### **Hazchem Code**

2X

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## **6. ACCIDENTAL RELEASE MEASURES**

### **Emergency Procedures**

Clear area of all unprotected personnel. Wear full protective equipment to prevent skin and eye contact.  
Wear impervious gloves, chemical goggles or full face shield, full protective clothing and rubber boots.  
Respiratory Protection: If inhalation risk exists wear respirator (suitable for alkalis) or air wash hood.  
Contain use sand and/or earth. Prevent run-off into drains or water ways. Follow Spills and Disposal directions.

### **Spills & Disposal**

Spill - Slippery when spilt. Avoid accidents, clean up immediately. Contain use sand and earth. Prevent run-off into drains or water ways. Neutralise with dilute acid under controlled conditions. If in doubt seek advice as to correct procedures. Wash to drain with excess water.

Disposal - Refer to State Land Waste Management Authority. Empty containers **MUST BE** decontaminated. Use dilute acid or excess water under controlled conditions. Normally, neutralisation or dilution is required for land fill disposal. The particular circumstances should be discussed with the relevant Authority.

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## **7. HANDLING AND STORAGE**

### **Precautions for Safe Handling**

Handle and open containers with care.  
Avoid prolonged or repeated contact with skin and eyes .  
Ensure the appropriate personal protective equipment is used when handling this material.

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

Prevent rupture and other damage of packages. Keep the drum upright, preferably indoor. Ensure the drum lids remain closed during storage.

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**Occupational exposure limit values**

TLV: 2mg/m<sup>3</sup> 'Peak Limitation'

Peak Limitation - Is a ceiling concentration which should not be exceeded over a measurement period which should be as short as possible but not exceeding 15 minutes.

**Appropriate Engineering Controls**

Keep containers in a well ventilated area.

Use with adequate ventilation.

**Personal Protective Equipment**

Respiratory Protection: If inhalation risk exists wear respirator or air-wash hood.

Protective Gloves: Impervious gloves

Eye Protection: Chemical goggles or full face shield

Other Protective Equipment: Wear full protective clothing and rubber boots.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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**Form**

Liquid

**Appearance**

A pale straw-coloured liquid with no distinct odour.

**Boiling Point**

> 100%

**Specific Gravity**

1.29 at 20°C

**pH**

14.0

**Vapour Pressure**

Not Allocated

**Flash Point**

Not Allocated

**Flammability**

Non combustible. Non flammable.

**Flammable Limits - Lower**

Not Allocated

**Other Information**

Very soluble in water.

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**10. STABILITY AND REACTIVITY**

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**Possibility of hazardous reactions**

Stable.

Conditions to Avoid: Reacts violently with acids.

Hazardous Decomposition Products: Produces explosive hydrogen in contact with aluminium, zinc and other metals.

Incompatibility: Can form explosive mixtures with organic materials.

## 11. TOXICOLOGICAL INFORMATION

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### Toxicology Information

Potassium Hydroxide - Corrosive to body tissue.

Acute Toxicity Data : Oral LD50 (rat) = 365 mg/kg

### Ingestion

Can kill if swallowed.

Will cause severe damage to the mucous membranes.

Ingestion can result in nausea, vomiting, diarrhoea, abdominal pain, convulsions, swelling of the larynx and subsequent suffocation, perforation of the gastrointestinal tract, cardiovascular collapse and coma.

### Inhalation

Inhalation of mists or aerosols can produce respiratory irritation.

May cause lesions of the nasal septum, pulmonary oedema, pneumonitis and emphysema.

### Skin

Highly corrosive to skin and any tissue with which it comes into contact.

Produces burns, deep ulcerations and gelatinous necrotic areas at the site of contact. Skin contact can result in little pain, thus care should be taken to avoid contamination of gloves and boots during use. Repeated or prolonged skin contact may lead to dermatitic effects.

### Eye

Highly corrosive to eyes.

Corrosive to eyes; contact can cause corneal burns.

May cause conjunctivitis, corneal burns and ulceration.

Contamination of eyes can result in permanent injury.

Permanent eye damage, including loss of sight, may occur.

### Chronic Effects

Repeated or prolonged skin contact can cause chronic dermatitis.

## 12. ECOLOGICAL INFORMATION

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### Environmental Protection

This substance may be hazardous to the environment; special attention should be given to preventing spills.

## 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.

## 14. TRANSPORT INFORMATION

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### U.N. Number

1760

### UN proper shipping name

CORROSIVE LIQUID, N.O.S.

### Transport hazard class(es)

8

**Packing Group**

III

**Hazchem Code**

2X

**Storage and Transport**

Storage temperature: Max 100°C Min 20°C Indoor - Yes. Heated - Yes

Refrigerated - No. Outdoor - Yes.

Classified as an 8 Dangerous substance.

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

**IERG Number**

37

## 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.

**Other Information****ABBREVIATIONS:**

ACGIH - American Conference of Government Industrial Hygienists

OSHA - Occupational Safety and Health Administration

TLV - Threshold Limit Value

NOHSC - National Occupational Health &amp; Safety Commission

## END OF SDS

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