SAFETY DATA SHEET

BIO-WASH

Infosafe No.: HC05F
ISSUED Date : 27/03/2018
ISSUED by: Hydro-Chem Pty Ltd

1. IDENTIFICATION

GHS Product Identifier
BIO-WASH

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
Chlorinated detergent for cooling tower cleaning.

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 2A
Skin Corrosion/Irritation: Category 2

Signal Word (s)
WARNING

Hazard Statement (s)
H315 Causes skin irritation.
H319 Causes serious eye irritation.
AUH031 Contact with acids liberates toxic gas.

Pictogram (s)
Exclamation mark

Precautionary statement – Prevention
P264 Wash contaminated skin thoroughly after handling.

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.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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.

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 hypochlorite	7681-52-9	0-10 %

4. FIRST-AID MEASURES

Inhalation
Remove victim from exposure - avoid becoming a casualty.
For all but the most minor symptoms arrange for patient to be seen by a doctor as soon as possible - either on site or at the nearest hospital.

Ingestion
Give water or milk to drink. DO NOT induce vomiting.
Rinse mouth thoroughly with water immediately.
If vomiting occurs give further water to achieve effective dilution.
Seek medical attention.

Skin
Wash affected areas with copious quantities of water immediately.
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.

Advice to Doctor
Treat symptomatically as for strong alkalis.

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
Use appropriate fire extinguisher for surrounding environment.

Specific Hazards Arising From The Chemical
EXTINGUISHING MEDIA: Water jets, Water fog or Spray.
SPECIAL FIRE FIGHTING PROCEDURES: No special requirements.

Hazchem Code
2X

6. ACCIDENTAL RELEASE MEASURES

Spills & Disposal
In Case material is spilled or released : Major spills should be contained.
Use sand and earth. Increase ventilation and allow controlled access to drain accompanied by a large excess of water. Minor spills should be hosed down excess water.
WASTE DISPOSAL METHODS: Refer to State Land Waste Management Authority.
Will require dilution to less than 5% available chlorine before acceptance to disposal site. Copious dilution with water prior to passing to drain is acceptable - within limits of licensing arrangements.

7. HANDLING AND STORAGE

Precautions for Safe Handling
Handle and open containers with care.
Avoid breathing vapour, spray or mists.
Avoid prolonged or repeated contact with skin and eyes .

Conditions for safe storage, including any incompatibilities
Store in cool place and out of direct sunlight.
Store away from foodstuffs.
Keep only in original container.
Containers must have vented caps.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limit values
Decomposition Product : Chlorine TLV = 0.5 ppm
TLV is the time weighted average concentration of the work atmosphere over a normal 8-hour work day and a 40-hour work week. Nearly all workers may be repeatedly exposed to this level, day after day, without adverse effect.
These TLVs are issued as guidelines for good practice. All atmospheric contamination should be kept to as low a level as is practically possible.
These TLVs should not be used as fine lines between safe and dangerous concentrations.

Appropriate Engineering Controls
Use with adequate ventilation.
Maintain concentration below recommended exposure limit.
If inhalation risk exists: Use with local ventilation or wear an appropriate respirator.

Personal Protective Equipment
Respiratory Protection: If product is used in a confine space then appropriate respirator should be considered.
Protective Gloves: Rubber
Eye Protection: Chemical goggles/glasses or full face shield.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form
Liquid

Appearance
Faintly yellow liquid with a slight chlorine odour.

Boiling Point
100°C

Specific Gravity
1.1-1.2 @ 25°C

pH
13.0

Vapour Pressure
Not applicable

Flash Point
> 100°C

Flammability
Not flammable under conditions of use.

Flammable Limits - Lower
Not known

10. STABILITY AND REACTIVITY

Possibility of hazardous reactions
STABILITY : Stable
CONDITIONS TO AVOID : Exposure to light and heat will release oxygen which
can create pressure buildup in drums.
HAZARDOUS DECOMPOSITION PRODUCTS: Chlorine.
HAZARDOUS POLYMERIZATION: Will not occur.
INCOMPATIBILITY (Materials to avoid): Reacts violently with acids producing
dangerous levels of gaseous chlorine. Metals, metal salts, reducing agents, peroxides and ethylene diamine tetraacetic acid.

11. TOXICOLOGICAL INFORMATION

Toxicology Information
No information for product. For consitituent Sodium Hypochlorite : Oral LD50 (mice) = 5800 mg/kg.
Eyes : Moderate irritant (rabbits).

Ingestion
An alkaline poison, primary irritant to mucous membranes, throat,
gastrointestinal tract.

Inhalation
Primary irritant to respiratory tract with prolonged exposure.

Skin
Contact with skin will result in moderate irritation.

Eye
A severe eye irritant.

Chronic Effects
None known.

12. ECOLOGICAL INFORMATION

Ecotoxicity
Avoid contaminating waterways.

Persistence and degradability
This product is biodegradable.
48hr LC50 (fish) = 0.7 - 5.9 mg/l.
Terrestrial toxicity : Expected to be harmful to terrestrial species.

Environmental Protection

Harmful to aquatic life.
This substance may be hazardous to the environment; special attention should be given to the prevention of spillages and the correct clean-up procedures.

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
1791

UN proper shipping name
HYPOCHLORITE SOLUTION

Transport hazard class(es)
8

Packing Group
III

Hazchem Code
2X

Storage and Transport
Must be stored and transported in accordance with State and Territory dangerous goods regulations. Store in a cool place and out of direct sunlight.
Store away from sources of heat or ignition.
Ensure containers are clearly labelled.
Store away from oxidizing agents.

IERG Number
37

15. REGULATORY INFORMATION

Poisons Schedule
S5

Packaging & Labelling
Dangerous goods Class : 8
Packaging Group : III
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.

Empirical Formula & Structural Formula
NaOCl

Revisions Highlighted
Section 2.

Other Information
ABBREVIATIONS:

ACGIH - American Conference of Government Industrial Hygienists
OSHA - Occupational Safety and Health Information
TLV - Threshold Limit Value
NOHSC - National Occupational Health & Safety Committee

END OF SDS