



# SAFETY DATA SHEET

## AUTO DISHWASHING LIQUID

Infosafe No.: 5GEPQ  
ISSUED Date: 30/10/2016  
Issued by: CUSTOM CHEMICALS  
INTERNATIONAL PTY LTD

### 1. IDENTIFICATION

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**GHS Product Identifier**

AUTO DISHWASHING LIQUID

**Product Code**

0010014

**Company Name**

CUSTOM CHEMICALS INTERNATIONAL PTY LTD (ABN 73 050 537 674)

**Address**

103-107 Potassium Street Narangba

QLD 4504 Australia

**Telephone/Fax Number**

Tel: 07 3204 8300

Fax: 07 3204 8311

**Emergency phone number**

13 1126 in Australia (AH)

**Recommended use of the chemical and restrictions on use**

Dishwashing liquid for use in automated machines

### 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

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

Corrosive to Metals: Category 1

Eye Damage/Irritation: Category 1

Skin Corrosion/Irritation: Category 1A

**Signal Word (s)**

DANGER

**Hazard Statement (s)**

May be corrosive to metals.

Causes severe skin burns and eye damage.

Causes serious eye damage.

**Pictogram (s)**

Corrosion

**Precautionary statement – Prevention**

Keep only in original container.

Do not breathe dust/fume/gas/mist/vapours/spray.

Wash contaminated skin thoroughly after handling.

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

#### Precautionary statement – Response

IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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

Immediately call a POISON CENTER or doctor/physician.

Wash contaminated clothing before reuse.

Absorb spillage to prevent material damage.

#### Precautionary statement – Storage

Store locked up.

Store in corrosive resistant/ container with a resistant inner liner.

#### Precautionary statement – Disposal

Dispose of contents/container to an approved waste facility

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Ingredients

Name	CAS	Proportion
Potassium hydroxide	1310- 58- 3	10- 20 %
Sodium Hydroxide	1310- 73- 2	0. 1- 1 %
Other ingredients classified as non hazardous at the concentrations used according to the criteria of Safe Work Australia		-

### 4. FIRST-AID MEASURES

#### Inhalation

If inhaled, remove affected person from contaminated area. Apply artificial respiration if not breathing. Seek medical attention.

#### Ingestion

Do not induce vomiting. Wash out mouth thoroughly with water. Seek immediate medical attention.

#### Skin

Remove all contaminated clothing immediately. Wash gently and thoroughly with water and non-abrasive soap for 15 minutes.

Ensure contaminated clothing is washed before re-use or discard. Seek immediate medical attention.

#### Eye contact

If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Seek immediate medical attention.

#### First Aid Facilities

Eyewash, safety shower and normal washroom facilities.

#### Advice to Doctor

Treat symptomatically.

#### Other Information

For advice in an emergency, contact a Poisons Information Centre (Phone Australia 131 126) or a doctor at once.

### 5. FIRE-FIGHTING MEASURES

#### Suitable Extinguishing Media

Carbon dioxide, water fog or fine water spray.

#### Unsuitable Extinguishing Media

Do not use water jet.

#### Hazards from Combustion Products

Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases including carbon monoxide and carbon dioxide.

#### Specific Hazards Arising From The Chemical

This product is non combustible.

#### Hazchem Code

2R

**Precautions in connection with Fire**

Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. Fight fire from safe location.

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**6. ACCIDENTAL RELEASE MEASURES**

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**Emergency Procedures**

Evacuate all unprotected personnel. Do not allow contact with skin and eyes. Do not breathe mist/vapour. It is essential to wear self-contained breathing apparatus (S.C.B.A) and full personal protective equipment and clothing to prevent exposure. Avoid exposure to spillage by collecting the material using vacuum and transfer into suitable labelled containers for subsequent recycling or disposal. Dispose of waste according to applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations. As a water based product, if spilt on electrical equipment the product will cause short-circuits.

Spilt material may result in a slip hazard and should be absorbed into dry, inert material (e.g. sand, earth or vermiculite), which then can be put into appropriately labelled drums for disposal by an approved agent according to local conditions. Residual deposits will remain slippery. Wash area down with excess water. If required, neutralize with sodium metabisulphite or sodium thiosulphate.

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**7. HANDLING AND STORAGE**

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**Precautions for Safe Handling**

Corrosive liquid. Attacks skin and eyes. Causes burns. Avoid breathing in vapours, mist or fumes. Wear suitable protective clothing, gloves and eye/face protection when mixing and using. Use in designated areas with adequate ventilation. Keep containers tightly closed. Ensure a high level of personal hygiene is maintained when using this product, that is, always wash hands after handling, and before eating, drinking, smoking or using the toilet facilities.

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

Corrosive liquid. Store in a cool dry well-ventilated area. Store away from oxidising agents and bases/acids. Keep containers closed when not in use, securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Provide a catch-tank in a bunded area. Store in original packages as approved by manufacturer. Ensure that storage conditions comply with applicable local and national regulations. Protect from freezing.

For information on the design of the storeroom, reference should be made to Australian Standard AS 3780 The storage and handling of corrosive substances.

**Corrosiveness**

May be corrosive to metals.

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**Occupational exposure limit values**

No exposure standards have been established for this material. However, the available exposure limits for ingredients are listed below:

Potassium hydroxide

TWA: 2 Peak limitation

Sodium hydroxide

TWA: 2 Peak limitation

TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

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

**Biological Limit Values**

No biological limits allocated.

**Appropriate Engineering Controls**

This substance is hazardous and should be used with a local exhaust ventilation system, drawing vapours away from workers' breathing zone. If the engineering controls are not sufficient to maintain concentrations of vapours/mists below the exposure standards, suitable respiratory protection must be worn.

**Respiratory Protection**

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements.

Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

**Eye Protection**

Safety glasses with full face shield should be used. Eye protection devices should conform to relevant regulations.

Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

**Hand Protection**

Wear gloves of impervious material such as Butyl rubber, Natural Latex, Neoprene, PVC, and Nitrile. Final choice of appropriate gloves will vary according to individual circumstances. i.e. methods of handling or according to risk assessments undertaken. Occupational protective gloves should conform to relevant regulations.

Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

**Body Protection**

Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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**Form**

Liquid

**Appearance**

Clear, colourless, non-viscous liquid

**Colour**

Clear, colourless

**Odour**

Faint chlorine odour

**Freezing Point**

Approximately 0°C

**Boiling Point**

Approximately 100°C

**Solubility in Water**

Miscible with water in all proportions.

**Specific Gravity**

1.15-1.25 (25°C)

**pH**

>13

**Vapour Pressure**

Not available

**Volatile Component**

Ca 80% v/v

**Flash Point**

Not applicable

**Flammability**

Non-combustible

**Other Information**

Corrosive to aluminium

## 10. STABILITY AND REACTIVITY

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**Chemical Stability**

Stable under normal conditions of storage and handling.

**Reactivity and Stability**

Reacts with incompatible materials.

**Conditions to Avoid**

Extremes of temperature and direct sunlight. ACIDS: violent reaction can occur, yielding heat and pressure, which can burst an enclosed container. Attacks many reactive metals (aluminium/magnesium/zinc alloys) releasing highly flammable gas (hydrogen), which generates fire or explosion hazards. Reacts slowly with ambient air (particularly carbon dioxide), which may cause certain insoluble salts to form in solutions.

**Incompatible materials**

Incompatible with amines, ammonium salts, aziridine, methanol and phenylacetonitrile. Reacts with metal salts, peroxides and reducing agents. Reacts violently with acids.

**Hazardous Decomposition Products**

Thermal decomposition may result in the release of toxic and/or irritating fumes including carbon monoxide, carbon dioxide, and other possibly toxic gases and vapours on burning. Reacts vigorously with acids producing dangerous levels of gaseous chlorine.

**Possibility of hazardous reactions**

Reacts with incompatible materials. Reacts vigorously with acids producing dangerous levels of gaseous chlorine.

**Hazardous Polymerization**

Not available

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## 11. TOXICOLOGICAL INFORMATION

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**Acute Toxicity - Oral**

POTASSIUM HYDROXIDE

LD50/rat/oral: 365 mg/kg

SODIUM HYPOCHLORITE

Oral LD50(rat) = 8910 mg/kg

**Ingestion**

Ingestion of this product will cause nausea, vomiting, abdominal pain and chemical burns to the mouth, throat and stomach.

**Inhalation**

Inhalation of mist or vapour will result in respiratory irritation and possible harmful corrosive effects including burns, lesions of the nasal septum, pulmonary edema, and scarring of tissue.

**Skin**

Causes burns. Corrosive to the skin. Skin contact can cause redness, itching, irritation, severe pain and chemical burns with resultant tissue destruction.

POTASSIUM HYDROXIDE

Irritant Dose (rabbits,dermal): 50 mg/24 hr - severe skin irritant

**Eye**

Causes eye damage. Eye contact will cause stinging, blurring, tearing, severe pain and possible burns, necrosis, permanent damage and blindness.

POTASSIUM HYDROXIDE

Irritant Dose (rabbits, ocular): 1 mg/24 hr - Moderate eye irritant

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## 12. ECOLOGICAL INFORMATION

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**Ecotoxicity**

Harmful to aquatic life.

**Persistence and degradability**

Individual components stated to be biodegradable.

**Mobility**

Not available

**Bioaccumulative Potential**

Not available

**Environmental Protection**

Prevent large amounts from entering waterways, drains and sewers.

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## 13. DISPOSAL CONSIDERATIONS

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**Disposal considerations**

Dispose of waste according to applicable local and national regulations. Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Wastes including emptied containers are controlled wastes and should be disposed of in accordance with all applicable local and national regulations.

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## 14. TRANSPORT INFORMATION

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**Transport Information**

This material is classified as a Class 8 Corrosive Substances Dangerous Goods

Class 8 Dangerous Goods are incompatible in a placard load with any of the following:

- Class 1: Explosives
  - Division 4.3: Dangerous when wet Substances
  - Division 5.1: Oxidising substances
  - Division 5.2: Organic peroxides
  - Class 6, Toxic or Infectious Substances, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids
  - Class 7: Radioactive materials unless specifically exempted
- and are incompatible with food and food packaging in any quantity.

Strong acids must not be loaded in the same freight container or on the same vehicle with strong alkalis. Packing Group I and II acids and alkalis should be considered as strong

**U.N. Number**

1719

**UN proper shipping name**

CAUSTIC ALKALI LIQUID, N.O.S.

**Transport hazard class(es)**

8

**Packing Group**

II

**Hazchem Code**

2R

**Special Precautions for User**

Not available

**IERG Number**

37

**IMDG Marine pollutant**

No

## 15. REGULATORY INFORMATION

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**Regulatory information**

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 a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)

**Poisons Schedule**

S6

## 16. OTHER INFORMATION

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**Date of preparation or last revision of SDS**

SDS Created: October 2016

**References**

- Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice.
- Standard for the Uniform Scheduling of Medicines and Poisons.
- Australian Code for the Transport of Dangerous Goods by Road & Rail.
- Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.
- Workplace exposure standards for airborne contaminants, Safe work Australia.
- American Conference of Industrial Hygienists (ACGIH).
- Globally Harmonised System of classification and labelling of chemicals.

**Contact Person/Point**

Regulatory Affairs Manager. Telephone (07) 3204 8300

**Uses and Restrictions**

USE THROUGH DISPENSER ONLY!

Autowash should be diluted at a rate of 1ml product per litre of water via the dispenser. Liquid dosing equipment should be adjusted by a qualified technician using an alkalinity test kit to provide an alkalinity of 500-800ppm.

**Other Information**

DO NOT MIX WITH OTHER CHEMICALS WITHOUT PRIOR CONSULTATION WITH THE MANUFACTURER. Always use product as directed. Never return any unused material to original drum.

The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the writers knowledge. The document represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses but is in no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product.

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**END OF SDS**

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