# Safety Data Sheet



### 1. Identification

GHS Product identifier: MACHINE DISHWASHER LIQUID **Company Name:** HY.GIENE Australia Pty. Ltd.

Unit 3, 41 Gatwick Road, BAYSWATER, VIC 3153 Address:

Telephone: (03) 9729 3946

Recommended use: Auto dishwasher detergent

None Other Names:

1800 616 930 **Emergency contact:** 

### 2. Hazard Identification

Hazardous according to the criteria of Safe Work Australia.

Dangerous Good (Class 8 Corrosive) according to the Australian Dangerous Goods (ADG) Code version 7.

**GHS** classification of the substance/mixture Skin Corrosion Category 1A Serious Eye Damage Category 1

Acute Toxicity (oral) Category 4

Signal Word (s) CORROSION

Hazard Statement(s) H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage. H302 Harmful if swallowed. H312 Harmful in contact with skin

H332 Harmful if inhaled

Risk phrases R35 Causes severe burns.

Pictogram (s) GHS05

GHS07

Precautionary statement -

Response

Prevention P260 - Do not breathe dust

> P264 - Wash exposed skin thoroughly after handling P270 - Do not eat, drink or smoke when using this product

P280 - Wear protective gloves, protective clothing, eye protection, face protection 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 person to fresh air and keep 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.

P330 - If swallowed, rinse mouth

P363 - Wash contaminated clothing before reuse

P405 - Store locked up Storage

P501 - Dispose of contents/container to comply with local, state and federal regulatio

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## 3. Composition/information on ingredients

<u>Hazardous ingredients</u> <u>CAS no.</u> <u>Proportion</u> <u>Hazard symbol Risk phrase</u>

Potassium hydroxide 1310-58-3 MED C R 35

KEY: Proportion, (wt %) - V HIGH >60, HIGH 30 - 60, MED 10 -29, LOW 1-9, V LOW <1

Non-hazardous ingredients to 100%

## 4. First-aid measures

**Ingestion:** Rinse mouth thoroughly with water immediately. Give water to drink. DO NOT induce vomiting. If

vomiting occurs, have victim lean forward to reduce risk of aspiration. If vomiting occurs give further

water to achieve effective dilution. Seek immediate medical assistance.

**Skin:** Wash affected areas with copious quantities of water immediately. Remove contaminated clothing and

wash before re-use. Seek urgent medical assistance. Cover skin with an emollient.

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

Seek immediate medical assistance.

If available, a neutral saline solution may be used to flush the contaminated eye/s an additional 30

minutes.

First Aid Facilities Maintain eyewash fountain and safety shower in work area.

Advice to Doctor Treat symptomatically as for strong alkalis. Consult Poisons Information Centre. In severe cases, where

excessive amounts of potassium hydroxide have been ingested, endoscopy should be performed to

determine the severity of the oesophageal burns.

Other Information For advice, contact the National Poisons Information Centre (Phone Australia 13 11 26\_New Zealand

0800 764 766) or a doctor.

## 5. Fire-fighting measures

Hazards from Combustion May liberate toxic fumes in fire (potassium oxide).

**Suitable extinguishing** Use extinguishing media most appropriate for the surrounding fire.

**media** Small fire: Use dry chemical, CO2 or water spray.

Large fire: Use water spray, fog or foam - Do NOT use water jets.

If safe to do so, move undamaged containers from the fire area. Cool containers with flooding quantities

of water until well after the fire is out.

Specific hazards arising from

the chemical Material does not burn. Fire or heat will produce irritating, poisonous and/or corrosive gases.

Hazchem Code 2X Precautions in connection

with fire Wear SCBA and chemical splash suit. Fully encapsulating, gas-tight suits should be worn for

maximum protection. Structural firefighter's uniform is NOT effective for these materials

### 6. Accidental release measures

Personal Precautions Avoid contact with skin and eyes.

**Personal Protection** Gloves. Face-shield. Corrosion-proof suit. Dust cloud production: compressed air/oxygen apparatus.

Wear protective clothing specified for normal operations (see Section 8)

Clean-up Methods-

Small Spillages Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralizing agent. Dispose contaminated material as waste according to item 13.

**Large Spillages** Seek expert advice on handling and disposal.

Environmental Precautions

Avoid release to the environment

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## 7. Handling and storage

Precautions for Safe Remove contaminated clothing immediately. Clean contaminated clothing. Use corrosion proof

equipment.

**Handling** Do not discharge the waste into the drain. Avoid raising dust. Observe very strict hygiene - avoid

contact. Keep container tightly closed. Carry operations in the open/under local exhaust/ventilation or

with respiratory protection.

Conditions for safe storage,

including any incompatibilities. Store in a cool, dry place. Store away from acids and strong oxidising agents. Keep containers

securely sealed.

Storage Regulations Refer Australian Standard AS 3780 - 1994 'The Storage and Handling of Corrosive Substances'.

## 8. Exposure controls/personal protection

Occupational exposure limit values

Name STEL TWA

mg/m³ppmmg/m³ppmFootnotePotassium hydroxide2Ceiling limit

### Other exposure information

A time weighted average (TWA) has been established for Potassium hydroxide (Safe Work Australia) of 2 mg/m<sup>3</sup>. The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week.

#### Appropriate engineering controls

In industrial situations maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods.

#### **Personal Protective Equipment**

Final choice of personal protective equipment will depend on individual circumstances and/or according to risk assessments undertaken.

#### **Respiratory Protection**

Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapors or mists. Respiratory protection should comply with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels. In event of emergency or planned entry into unknown concentrations a positive pressure, full-face piece SCBA should be used. If respiratory protection is required; institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.

#### **Eye Protection**

The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.

#### **Hand Protection**

Avoid skin contact when removing gloves from hands, do not touch the gloves outer surface. Dispose of gloves as hazardous waste. Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance. Recommendation: Rubber or plastic gloves.

#### **Footwear**

Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.

### **Body Protection**

Clean clothing or protective clothing should be worn, preferably with and apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection against Hazardous Chemicals.

#### **Hygiene Measures**

Do not eat, drink or smoke in work areas. Wash hands thoroughly after handling this material. Maintain good housekeeping

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**Vapour Pressure** 

## MACHINE DISHWASHER LIQUID

## 9. Physical and chemical properties

Appearance
Odour
Melting Point
Boiling Point
Flash point

Colourless liquid
Characteristic
~0 °C
~100°C
Not applicable

**Solubility** Miscible in water in all proportions

Not determined

 Specific Gravity
 1.2 g/cm³ @ 20 °C

 pH
 14 as supplied

 Viscosity
 ~100 cPs 20 °C

 Percent volatile
 > 80 %

Flammability Non flammable

## 10. Stability and reactivity

Chemical Stability
Conditions to Avoid
Incompatible Materials

Stable under normal use conditions.
High temperatures and incompatibles.
Strong acids and oxidising agents

**Hazardous Decomposition** 

**products** Potassium oxide.

Possibility of

hazardous reactions Reacts violently with acids.

Hazardous Polymerization Will not occur.

### 11. Toxicological Information

The following information is based on 100% Potassium Hydroxide

**Acute toxicity** Harmful if swallowed.

LD50 oral rat 333 mg/kg (Rat; Experimental value)

**Skin corrosion/irritation** Causes severe skin burns and eye damage.

Serious eye damage/irritation

Respiratory or skin

Sensitisation Not classified
Germ cell Mutagenicity Not classified
Carcinogenicity Not classified
Reproductive toxicity Not classified

Specific target organ

toxicity (single exposure) Not classified

Specific target organ

toxicity (repeated exposure) Not classified Aspiration hazard Not classified

Symptoms/injuries after

Inhalation AFTER INHALATION OF DUST Dry/sore throat. Corrosion of the upper respiratory tract. Respiratory difficulties.

FOLLOWING SYMPTOMS MAY APPEAR LATER: Possible oedema of the upper respiratory tract. Possible

inflammation of the respiratory tract. Possible laryngeal spasm/oedema. Risk of pneumonia.

Symptoms/injuries after

skin contact

SEVERE SKIN IRRITANT. Caustic burns/corrosion of the skin and slow-healing wounds.

Symptoms/injuries after

eye contact SEVERE EYE IRRITANT. Corrosion of the eye tissue potentially with permanent eye damage and

blindness.

Symptoms/injuries after

Ingestion

Abdominal pain. Difficulty in swallowing. Possible esophageal perforation. Irritation of the oral mucous membranes. Burns to the gastric/intestinal mucosa. Blood in vomit. AFTER ABSORPTION OF HIGH

QUANTITIES: Change in the haemogramme/blood composition. Disturbances of heartrate.

FOLLOWING SYMPTOMS MAY APPEAR LATER: Bleeding of the gastrointestinal tract. Low arterial pressure.

Blood in stool. Shock.

Chronic symptoms No effects known.

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## 12. Ecological information

The following information is based on 100% Potassium Hydroxide

Ecology - water Ground water pollutant. Harmful to fishes. Highly toxic to plankton. pH shift. Insufficient data available on

ecotoxicity.

LC50 fishes 1 > 28.6 mg/l (96 h; Pisces; LETHAL)

LC50 fish 2 80 mg/l (Gambusia affinis) TLM fish 1 80 ppm (24 h; Gambusia affinis)

Persistence and

**Degradability** Biodegradability: not applicable.

**Biochemical oxygen** 

demand (BOD) Not applicable

Chemical oxygen

demand (COD) Not applicable

Bioaccumulative potentialBioaccumulation: not applicable.Mobility in soilNo additional information availableOther adverse effectsNo additional information available

### 13. Disposal considerations

**Disposal Considerations** Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical

properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Do not dispose into the environment, in drains or in water courses. Do not dispose of tank water bottoms by allowing them to drain into the ground. This will result in soil and groundwater contamination. Waste arising from a spillage or tank cleaning should be disposed of in accordance with prevailing regulations, preferably to a recognised collector or contractor. The competence of the collector or contractor should be

established beforehand.

### 14. Transport information

Transport Information Dangerous goods of Class 8 (Corrosive) are incompatible in a placard load with any of the following: Class 1, Class

4.3, Class 5, Class 6, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids, Class 7 and are incompatible with food and food packaging in any quantity. Not to be loaded on the same vehicle

with strong acids.

**U.N. Number** 1814

UN proper shipping name POTASSIUM HYDROXIDE SOLUTION

Transport hazard class(es) 8 Hazchem Code 2X Packing Group II

## 15. Regulatory information

Regulatory Information Listed in the Australian Inventory of Chemical Substances (AICS).

Poisons Schedule None allocated.

#### 16. Other Information

**Date of preparation or last revision of SDS -** 1/03/2020 Reason for issue: Format change

#### References

National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.', 2007.

'Labelling of Hazardous Workplace Chemicals, Code of Practice' Safe Work Australia.

Safe Work Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(2004)]'. Safe Work Australia, 'Hazardous Substances Information System, 2005'.

Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances (2011)'.

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