

# Material Safety Data Sheet

Infosafe No™ YSXX5 Issue Date : January 2015 ISSUED by PLESSJAL

Product Name : **Automatic Dishwashing Machine Liquid**

Classified as hazardous

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Chemical Product and Company Identification** Tel: (03)9416 6700 (BH)  
Fax: (03)9416 8516  
Web: www.peerlessjal.com.au  
email: sales@peerlessjal.com.au

**Product Name** Automatic Dishwashing Machine Liquid

**Product Code** AUTMAC

**Company Name** Peerless Jal Pty Ltd (ABN 53 006 489 345)

**Address** 10-12 Raglan Street Preston  
Victoria 3072 Australia

**Telephone/Fax Number** Tel: (03) 9416 6700  
Fax: (03) 9416 8516

**Email** sales@peerlessjal.com

**Recommended Use** Use in automatic dishwashers. Dispense automatically. Use dispenser position K1. Rinse product contacting surfaces with potable water after use.

**Other Names**

<u>Name</u>	<u>Product Code</u>
Caustic Alkali Liquid nos (contains Potassium Hydroxide)	
Automatic Dishwashing Machine Liquid	
Dishwashing Machine Liquid	

**Other Information** NOTICE: While the information contained herein is correct to the best of our knowledge, PEERLESS JAL Pty Ltd herein disclaims any warranties as to the accuracy of the same. Recommendations or suggestions are made without guarantee or representation as a result, since conditions of use are beyond our control. All materials are sold subject to PEERLESS JAL Pty Ltd standard terms and conditions of sale and on the condition that buyer shall make his/her own tests to determine the suitability of such product for buyers purposes. No statement contained herein shall be construed as a recommendation to infringe any patent.

## 2. HAZARDS IDENTIFICATION

**Hazard Classification** Classified as hazardous  
Approved Criteria Classification (Calculated)  
Very Corrosive, Risk Phrases R35 R41  
Safety Phrases S: 1, 2, 26, 37/39, 45  
SUSDP Classification  
S6 (Potassium Hydroxide and Alkaline Salts)  
ADG Classification  
Class 8 (Caustic Alkali Liquid)  
UN Number  
1719  
EMERGENCY OVERVIEW  
Colour  
Colourless to pale yellow.  
Physical Description  
Liquid - mobile.  
Odour  
Slight chlorine.  
Major Health Hazards  
Very corrosive to skin and eyes.

**Risk Phrase(s)** Classified as hazardous  
R35 Causes severe burns.  
R41 Risk of serious damage to eyes.

**Safety Phrase(s)** S1/2 Keep locked up and out of reach of children. the reach of children.  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S37/39 Wear suitable gloves and eye/face protection. / face protection.  
S45 In case of accident or if you feel unwell seek medical advice immediately , seek medical advice immediately (show the label whenever possible.)

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

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<b>Chemical Characterization</b>	Liquid				
<b>Ingredients</b>	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>	<u>Hazard Symbol</u>	<u>Risk Phrase</u>
	Alkaline Salts	(Proprietary)	14%		
	Water	7732-18-5	To 100%		
	Sodium Hypochlorite	7861-52-9	18.6%		
	Potassium hydroxide	1310-58-3	33.3%		

## 4. FIRST AID MEASURES

<b>First Aid Measures</b>	For advice, contact a Poisons Information Centre (Phone 13 1126) or a doctor.
<b>Inhalation</b>	Leave contaminated area.
<b>Ingestion</b>	If swallowed, do NOT induce vomiting.
<b>Skin</b>	If skin or hair contact occurs, remove contaminated clothing and wash skin and hair with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor.
<b>Eye</b>	If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.
<b>First Aid Facilities</b>	Eyewash should be nearby and ready to use. Provision of safety showers is recommended. Keep a burns module in the first aid kit.
<b>Advice to Doctor</b>	Consider referral to ophthalmologist in cases of eye contact due to possibility of corneal burns. Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

<b>Suitable Extinguishing Media</b>	Use water spray or fog, dry chemical, foam or carbon dioxide.
<b>Specific Methods</b>	Move container from fire area if it can be done without risk. Do not scatter spilled material with high-pressure water streams. Dike for later disposal. Use extinguishing agents appropriate for surrounding fire. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.
<b>Specific Hazards</b>	Non-combustible material. Closed containers are liable to explode if exposed to extreme heat.
<b>Hazchem Code</b>	2R
<b>Other Information</b>	ADG Classification: Class 8 Corrosive Hazchem 2R

## 6. ACCIDENTAL RELEASE MEASURES

<b>Clean-up Methods - Small Spillages</b>	Small spills may be flushed to sewer with plenty of water.
<b>Clean-up Methods - Large Spillages</b>	Contain spill using inert absorbent such as sand, earth or chemical spill kit. Neutralise with dilute acid to pH 7-8. Collect and seal in properly labelled containers for disposal. Alert appropriate authority if spill has contaminated the environment or sewers.

## 7. HANDLING AND STORAGE

<b>Precautions for Safe Handling</b>	This material is a Class 8 Dangerous Good and a Schedule 6 Poison. Handle in accordance with State or Territory Dangerous Goods and Poisons Regulations. Refer to the National Code of Practice for the Storage and Handling of Dangerous Goods.
<b>Conditions for Safe Storage</b>	This material is a Class 8 Dangerous Good and a Schedule 6 Poison. Store in accordance with State or Territory Dangerous Goods and Poisons Regulations. Refer to the National Code of Practice for the Storage and Handling of Dangerous Goods. Keep containers closed. Check regularly for leaks.
<b>Corrosiveness</b>	Corrosive

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>National Exposure Standards</b>	NOHSC The National Occupational Health and Safety Commission (Worksafe Australia) has set no exposure standards for this material. This does not imply that this material is safe or non-hazardous. There may be insufficient information available to allow the National Commission to assign an exposure standard,
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even on a tentative basis. Where exposure standards are available for the ingredients of this material, they are listed below.

Ingredient Exposure Limits

Ingredient	TWA		STEL		Notices
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	
Potassium Hydroxide	-	2	Peak Limitation	-	-
Chlorine	1	3	Peak Limitation	-	-

Application in the Workplace

TWA - the Time-Weighted Average airborne concentration over an eight-hour working day, for a five-day week over an entire working life. According to current knowledge this concentration should neither impair the health of, nor cause undue discomfort to, nearly all workers.

STEL is the Short Term Exposure Limit and is a 15-minute TWA exposure, which should not be exceeded at any time during a working day. Exposures at the STEL should not be longer than 15 minutes and should not be repeated more than four times per day. There should be at least 60 minutes between successive exposures at the STEL.

Peak Limitation - the exposure standard for this substance is a maximum or peak concentration to which workers may be exposed. Compliance should be determined over the shortest analytically practicable period of time, but in no circumstances should a single determination exceed 15 minutes.

Guide Only

Exposure Standards are guides to be used in the control of occupational health hazards. They are not fine dividing lines between safe and dangerous concentrations of chemicals nor are they measures of relative toxicity. All atmospheric contamination should be kept to as low a level as is practicable.

## Engineering Controls

Ventilation  
Ensure adequate ventilation to maintain concentrations below exposure standards. Consider using local exhaust ventilation

## Respiratory Protection

If vapour or spray mist is present, use a respirator that complies with AS/NZS 1715 and AS/NZS 1716. Choose a respirator with a particle filter.

## Eye Protection

Wear eye / face protection when mixing or using.

## Hand Protection

Protective Material Types:

Gloves that are suitable include those made of nitrile, latex, PVC and rubber.

## Body Protection

Skin Protection:

Wear suitable protective clothing and gloves when mixing or using.

## Hygiene Measures

Always wash hands before eating, drinking, smoking or using the toilet.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Liquid
Odour	Slightly chlorine.
Boiling Point	Approx 100°C.
Solubility in Water	Completely miscible.
Specific Gravity	Approx 1.2
pH Value	>13.5
Vapour Density (Air=1)	Not available.
Physical State	Liquid - mobile.
Colour	Colourless to pale yellow.
Flash Point	None.
Explosion Limit - Upper	None.
Explosion Limit - Lower	None.
Other Information	Freezing Point: <0°C.

## 10. STABILITY AND REACTIVITY

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**Stability and Reactivity** Stable at normal temperatures and pressures.  
**Conditions to Avoid** Avoid contact with incompatible materials.  
**Incompatible Materials** Strong acids, aluminium, zinc, tin and alloys. Do not mix with hot water.  
**Hazardous Decomposition Products** Thermal decomposition products will include corrosive and toxic gases.  
**Hazardous Polymerization** Will not polymerise.

## 11. TOXICOLOGICAL INFORMATION

**Toxicology Information** INDIVIDUAL INGREDIENT INFORMATION  
POTASSIUM HYDROXIDE  
Toxicity Data  
Oral LD50 (rat): 273mg/kg  
Local Effects  
Very corrosive to skin and eyes.  
Acute Toxicity Level  
Causes severe burns. Risk of serious damage to eyes.  
Target Organs  
Skin.  
Reference  
Redox Chemicals MSDS Issued March 2001.  
INDIVIDUAL INGREDIENT INFORMATION  
SODIUM HYPOCHLORITE  
Toxicity Data  
Oral LD50 (rat): 8910mg/kg  
Local Effects  
Corrosive to skin and eyes.  
Acute Toxicity Level  
Causes burns. Risk of serious damage to eyes.  
Target Organs  
Skin.  
Reference  
Orica MSDS Issued Aug 1998

**Health Hazard** No adverse health effects expected if the product is handled in accordance with this Material Safety Data Sheet and the product label. Symptoms that may arise if the product is mishandled are: For WSA Format, please refer to Health Effects Section for acute effects.

**Inhalation** Short term exposure  
Spray mist and vapour may be irritating to the nose, mucous membranes and respiratory system. May cause headache and dizziness.  
Long term exposure  
No adverse effects reported.

**Ingestion** Short term exposure  
Causes severe burns. May burn mouth, throat and gastro-intestinal tract. May cause nausea, vomiting and diarrhoea.  
Long term exposure  
May cause scarring of tissues.

**Skin** Short term exposure  
Causes severe burns.  
Long term exposure  
May cause scarring.

**Eye** Short term exposure  
Causes severe burns. Risk of serious damage to eyes.  
Long term exposure  
May cause serious damage to eyes.

**Carcinogenicity** NOHSC  
Not classified.  
NTP  
Not available.  
IARC  
Not available.

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## 12. ECOLOGICAL INFORMATION

**Ecological Information** Prevent product from entering waterways and rivers. Fish and other aquatic organisms are sensitive to changes in pH.

## 13. DISPOSAL CONSIDERATIONS

**Disposal Considerations** Dispose in accordance with all applicable regulations.

## 14. TRANSPORT INFORMATION

**Transport Information** Classified as dangerous goods according to the transport of dangerous goods (ADG) Code.

**U.N. Number** 1719

**Proper Shipping Name** CAUSTIC ALKALI LIQUID, N.O.S.

**DG Class** 8

**Hazchem Code** 2R

**Special Precautions for User** Correct Shipping Name: CAUSTIC ALKALI LIQUID N.O.S. (Contains: Potassium Hydroxide)

**Packaging Method** 3.8.8RT8

**Packing Group** II

**EPG Number** 8A1

**IERG Number** 37

**UN Number (Road Transport)** 1719

**Other Information** This MSDS summarises our best knowledge of health and safety hazard information of the product and how to safely handle and use the product.

## 15. REGULATORY INFORMATION

**Regulatory Information** Classified as hazardous  
AICS  
All ingredients are listed an AICS.

**Poisons Schedule** S6

**Hazard Category** Corrosive

## 16. OTHER INFORMATION

**Technical Contact Point** Technical Department  
10-12 Raglan Street,  
Preston, VIC, 3072.  
Tel: (03)9416 6700 (BH)  
Fax: (03)9416 8516  
...End Of MSDS...

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