

Material Safety Data Sheet

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Infosafe No. YSXX5 Issue Date : June 2006 APPROVED by PLESSJAL

Product Name : **Automatic Dishwashing Machine Liquid**

Classified as hazardous according to criteria of NOHSC

COMPANY DETAILS

Company Name Peerless Jal Pty Ltd (ABN 53 006 489 345)
Address 10-12 Raglan Street Preston
Victoria 3072 Australia
Tel/Fax Tel: (03) 9416 6700 Fax: (03) 9416 8516
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.

IDENTIFICATION

Product Name Automatic Dishwashing Machine Liquid
Proper Shipping Name CAUSTIC ALKALI LIQUID, N.O.S.
Other Names Name Product Code
Super Conc Machine
Caustic Alkali Liquid nos (contains Potassium Hydroxide)
Dishwashing Machine Liquid
UN Number 1719
DG Class 8
Packing Group II
Hazchem Code 2R
Poisons Schedule S6
Chemical Product and Company Identification Web Site: <http://www.jalchemicals.com/>
EMERGENCY CONTACT TELEPHONE NUMBERS
BH (03) 9416 8333
Mobile 0413 626 701
Product Use Use in automatic dishwashers. Dispense automatically. Use dispenser position K1. Rinse product contacting surfaces with potable water after use.

Physical Data

Boiling Point Approx 100°C.
Specific Gravity Approx 1.2
Flash Point None.
Solubility in Water Completely miscible.

Other Properties

Vapour Density Not available.
pH Value >11.5
Odour Slightly chlorine.
Physical State Liquid - mobile.
Colour Colourless to pale yellow.
Form Liquid
Haz. Polymerization Will not polymerise.
Materials to Avoid Strong acids, aluminium, zinc, tin and alloys. Do not mix with hot water.
Explosion Limit - Upper None.

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Explosion Limit - Lower None.

Other Information Freezing Point:
<0°C.

Ingredients

Ingredients	Name	CAS	Proportion
	Potassium hydroxide	1310-58-3	33.3%
	Sodium Hypochlorite	7861-52-9	18.6%
	Water	7732-18-5	To 100%
	Alkaline Salts	(Proprietary	14%
)	

HEALTH HAZARD INFORMATION

Health Effects

Acute - Swallowed 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.

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

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

Acute - Inhaled 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.

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.

Hazards Identification 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.

First Aid

Swallowed If swallowed, do NOT induce vomiting.

Eye 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.

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Skin 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.

Inhaled Leave contaminated area.

First Aid Measures For advice, contact a Poisons Information Centre (Phone 13 1126) or a doctor.

First Aid Facilities Eyewash should be nearby and ready to use. Provision of safety showers is recommended. Keep a burns module in the first aid kit.

Advice to Doctor

Advice to Doctor Consider referral to ophthalmologist in cases of eye contact due to possibility of corneal burns. Treat symptomatically.

Other Health Hazard Information

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

PRECAUTIONS FOR USE

Exposure Limits 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, even on a tentative basis. Where exposure standards are available for the ingredients of this material, they are listed below.

Ingredient	TWA		STEL		Notices
	ppm	mg/m ³	ppm	mg/m ³	
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.

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

Personal Protection

Respirator Type (AS 1716) 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.

Glove Type Protective Material Types:
Gloves that are suitable include those made of nitrile, latex, PVC and rubber.

Clothing Skin Protection:

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Work/Hygienic Practices Wear suitable protective clothing and gloves when mixing or using.
Always wash hands before eating, drinking, smoking or using the toilet.

Flammability

SAFE HANDLING INFORMATION

Storage and Transport

Storage Precautions 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.

Transport Classified according to the Transport of Dangerous Goods (ADG) Code and the Standards for the Uniform Scheduling of Drugs and Poisons.

Handling 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.

Special Shipping Information Correct Shipping Name: CAUSTIC ALKALI LIQUID N.O.S. (Contains: Potassium Hydroxide)

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

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

EPG Number 8A1

IERG Number 37

Packaging Method 3.8.8RT8

ADR/RID UN Number (Road Transport) 1719

Spills and Disposal

Disposal Considerations Dispose in accordance with all applicable regulations.

Clean-up Methods - Small Spillages Small spills may be flushed to sewer with plenty of water.

Clean-up Methods - Large Spillages 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.

Fire/Explosion Hazard

Fire/Explos. Hazard Non-combustible material. Closed containers are liable to explode if exposed to extreme heat.

Hazardous Decomposition or Byproducts Thermal decomposition products will include corrosive and toxic gases.

Fire Fighting Procedures 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.

Extinguishing Media Use water spray or fog, dry chemical, foam or carbon dioxide.

Stability and Reactivity Stable at normal temperatures and pressures.

Hazchem Code 2R

Conditions to Avoid Avoid contact with incompatible materials.

Other Information ADG Classification:
Class 8 Corrosive Hazchem 2R

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OTHER INFORMATION

Toxicology	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
Risk Statement	R35 Causes severe burns. R41 Risk of serious damage to eyes.
Safety Statement	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.)
Regulatory Information	AICS All ingredients are listed an AICS.
Hazard Category	Corrosive
Ecological Information	Prevent product from entering waterways and rivers. Fish and other aquatic organisms are sensitive to changes in pH.

CONTACT POINT

Technical Contact Point	Technical Department 10-12 Raglan Street, Preston, VIC, 3072. Phone: (03) 9416 6700 ...End Of MSDS...
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