

# Material Safety Data Sheet

Infosafe No™ YSXV5 Issue Date : January 2015 ISSUED by PLESSJAL

Product Name : ChlorDet

Classified as hazardous

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Chemical Product and Company Identification** TECHNICAL DEPARTMENT  
Phone (03) 9416 6700

**Product Name** ChlorDet

**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** Suggested dilutions: 1:150 (foaming); 1:100 (pressure washing); 1:50 (manual washing). Dilute with cold water only. Rinse product contacting surfaces with potable water after use.

**Other Names** Name Product Code

Concentrated Chlorine Sanitiser  
Detergent

**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)  
Corrosive; Risk Phrases R34-41-31  
Safety Phrases S: 1/2-26-28-37/39-45-50  
SUSDP Classification  
S5 (Sodium Hydroxide, Potassium Hydroxide, Sodium Hypochlorite)  
ADG Classification  
Class 8 (Caustic Alkali Liquid N.O.S. (contains sodium hypochlorite)  
UN Number  
1759  
EMERGENCY OVERVIEW  
Colour  
Clear, colourless to pale yellow.  
Physical Description  
Viscous mobile liquid.  
Odour  
Slight chlorine odour.  
Major Health Hazards  
Corrosive to eyes, skin and if swallowed. Vapours may irritate respiratory tract.

**Risk Phrase(s)** Classified as hazardous  
R31 Contact with acids liberates toxic gas.  
R34 Causes 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.  
S28 After contact with skin, wash immediately with plenty of soap-suds.  
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).  
S50 Do not mix with acids.

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical	Liquid				
Characterization					
Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>	<u>Hazard Symbol</u>	<u>Risk Phrase</u>
	Blend of surfactants and sequestrants determined not to be hazardous under the criteria of the NOHSC.	(Proprietary)	10-30 %		
	Sodium Hypochlorite	7681-52-9	5-10 %		
	Sodium hydroxide	1310-73-2	1-5 %		
	Potassium hydroxide	1310-58-3	1-5 %		

### 4. FIRST AID MEASURES

First Aid Measures	For advice, contact a Poisons Information Centre (Phone 13 1126) or a doctor (at once).
Inhalation	Leave contaminated area. Where possible, gargle with water and flush nasal passages with water.
Ingestion	If swallowed, do NOT induce vomiting.
Skin	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.
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.
First Aid Facilities	Eyewash should be nearby and ready to use. Keep a burns module in the first aid kit.
Advice to Doctor	Do not administer antidotes that may promote the release of chlorine gas. Consider referral to ophthalmologist in cases of eye contact due to possibility of corneal burns. Treat symptomatically.

### 5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Use water spray or fog, dry chemical, foam or carbon dioxide.
Specific Methods	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.
Specific Hazards	Not combustible. Drums may burst and product will give off toxic fumes of chlorine and caustic mist if heated or involved in a large fire.
Hazchem Code	2R
Other Information	ADG Classification: Class 8 Corrosive Hazchem 2R

### 6. ACCIDENTAL RELEASE MEASURES

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. Spill may be neutralised by first treating with sodium thiosulphate or sodium metabisulphite to react all hypochlorite and render the liquid free of chlorine. Then, and only then, may it be carefully neutralised with dilute acid to pH 7-9. Note, if acid is added before the neutraliser has consumed all hypochlorite, then toxic chlorine may be given off. Collect and seal in properly labelled containers for disposal. Alert appropriate authority if spill has contaminated the environment or sewers.

### 7. HANDLING AND STORAGE

Precautions for Safe Handling	This material is a Class 8 Dangerous Good and a Schedule 5 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. Avoid contact with eyes and skin. Avoid breathing mists and vapours.
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**Conditions for Safe Storage** This material is a Class 8 Dangerous Good and a Schedule 5 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. Avoid contact with eyes and skin. Avoid breathing mists and vapours. Maintain adequate natural ventilation. Store in cool location out of direct sunlight, with vented cap at top and unobstructed.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**National Exposure Standards** 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 Exposure Limits

Ingredient	TWA		STEL		Notices
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	
Sodium Hydroxide	-	2	Peak Limitation	-	-
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, especially in confined areas. Consider using local exhaust ventilation

### Respiratory Protection

Wear a respirator that complies with AS/NZS 1715 and AS/NZS 1716 with appropriate filter if in risk of breathing mists or vapours and when dealing with large spills.

### Eye Protection

Wear eye / face protection.

### 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.

### Hygiene Measures

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

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Form** Liquid  
**Odour** Slight chlorine odour.  
**Boiling Point** > 100°C.  
**Solubility in Water** Completely miscible.

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<b>Specific Gravity</b>	Approx 1.15
<b>pH Value</b>	>13
<b>Vapour Density (Air=1)</b>	Not available.
<b>Physical State</b>	Viscous mobile liquid.
<b>Colour</b>	Clear, colourless to pale yellow.
<b>Flash Point</b>	Not flammable.
<b>Explosion Limit - Upper</b>	Not flammable.
<b>Explosion Limit - Lower</b>	Not flammable.
<b>Other Information</b>	Freezing Point: <0°C.

## 10. STABILITY AND REACTIVITY

<b>Stability and Reactivity</b>	Stable at normal temperatures and pressures. Has oxidising character. May react with acids producing toxic chlorine gas. Contamination of solution and exposure to heat or light will accelerate decomposition. Product packages are fitted with vented caps to allow the escape of vapours that build up during normal storage.
<b>Conditions to Avoid</b>	Avoid contact with incompatible materials. Avoid heat, sunlight, inadvertent blocking of breather holes in vented caps.
<b>Incompatible Materials</b>	Strong acids, peroxides, aluminium, zinc, tin and alloys, metal salts and reducing agents. Avoid mixing with hot water.
<b>Hazardous Decomposition Products</b>	Thermal decomposition products will include corrosive and toxic such as chlorine gas and hypochlorous acid..
<b>Hazardous Polymerization</b>	Will not polymerise.

## 11. TOXICOLOGICAL INFORMATION

<b>Toxicology Information</b>	INDIVIDUAL INGREDIENT INFORMATION SODIUM HYDROXIDE Toxicity Data Oral LD50 (rat): not available 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. 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 Eyes, skin. Reference Redox Chemicals MSDS Issued March 2001. SODIUM HYPOCHLORITE Toxicity Data Oral LD50 (rat): 8910mg/kg. Local Effects Very corrosive to skin and eyes. Acute Toxicity Level Causes severe burns. Risk of serious damage to eyes.
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Target Organs  
Eyes, skin.  
Reference  
Orica MSDS Issued August 1998.  
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 mists (ie aerosols of liquid product) can cause burns to mucous membranes. Vapours from non-atomised product may be irritating to nose lining and respiratory tract. May cause headache and dizziness.  
Long term exposure  
High concentrations or prolonged overexposure may have similar effects to acute effects. May aggravate respiratory disorders.

**Ingestion**  
Short term exposure  
Corrosive. Causes burns to mouth, throat and gastro-intestinal tract. Systemic effects include fall in blood pressure, delirium and coma.  
Long term exposure  
May cause similar effects to those of acute ingestion.

**Skin**  
Short term exposure  
Corrosive. Causes burns.  
Long term exposure  
May cause scarring and similar effects to those of acute skin contact. Other effects may include dermatitis or other skin disorders.

**Eye**  
Short term exposure  
Corrosive. Causes burns. Risk of serious eye damage and corneal damage.  
Long term exposure  
May cause similar effects to those of acute eye contact.

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

## 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 good according to the Australian 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 and Sodium Hydroxide)  
**Packaging Method** 3.8.8RT8  
**Packing Group** II  
**EPG Number** 8A1  
**IERG Number** 37

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**UN Number (Road Transport)** 1719

## 15. REGULATORY INFORMATION

**Regulatory Information** Classified as hazardous  
AICS: All ingredients are listed an AICS.  
**Poisons Schedule** S5  
**Hazard Category** Corrosive

## 16. OTHER INFORMATION

**Technical Contact Point** Technical Department  
10-12 Raglan Street Preston, Vic, 3072.  
Phone: (03) 9416 6700

**Other Information** JAL COLOUR CODING:  
BLACK DOT - CAUSTIC  
JAL DISPENSER POSITION: H5  
Revised Sections of MSDS  
All sections. Update to 16-section format.  
Acronyms  
SUSDP - Standard for the Uniform Scheduling of Drugs and Poisons; MSDS - Material Safety Data Sheet; ADG CODE - Australian Code for the Transport of Dangerous Goods by Road and Rail; NOS - Not Otherwise Specified; CAS Number  
Chemical Abstracts Service Registry Number; UN Number - United Nations Number;  
R-Phrases - Risk Phrases; HAZCHEM Code - An emergency action code of numbers and letters that gives information to emergency services; NOHSC - National Occupational Health and Safety Commission (Worksafe Australia); NTP - National Toxicology Program (USA); IARC - International Agency for Research on Cancer; AICS - Australian Inventory of Chemical Substances.  
...End Of MSDS...

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