

Infosafe No™ VARGG	Issue Date : March 2016	ISSUED by HUNTER
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 Product Name **CHLOR DET**

Classified as hazardous

## 1. Identification

<b>GHS Product Identifier</b>	CHLOR DET
<b>Company Name</b>	Hunter Industrials Pty Ltd (ABN 083 330 974)
<b>Address</b>	51-53 Lakewood Blvd Braeside Vic 3195 Australia
<b>Telephone/Fax Number</b>	Tel: (03) 9586 2888 Fax: (03) 9587 9851
<b>Emergency phone number</b>	0409 949 298
<b>E-mail Address</b>	sales@huntind.com.au
<b>Recommended use of the chemical and restrictions on use</b>	Alkaline machine dish wash liquid, containing chlorine. Designed for use in commercial warewashing equipment.

## 2. Hazard Identification

<b>GHS classification of the substance/mixture</b>	Acute Toxicity - Oral: Category 4 Skin Corrosion/Irritation: Category 1A
<b>Signal Word (s)</b>	DANGER
<b>Hazard Statement (s)</b>	H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H402 Harmful to aquatic life.
<b>Precautionary statement - General</b>	P102 Keep out of reach of children. P103 Read label before use.
<b>Pictogram (s)</b>	Corrosion, Exclamation mark



<b>Precautionary statement - Prevention</b>	P260 Do not breathe dust/fume/gas/mist/vapours/spray. P264 Wash contaminated 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.
<b>Precautionary statement - Response</b>	P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. 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 victim to fresh air and keep at rest in a position 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/physician. P363 Wash contaminated clothing before reuse. P391 Collect spillage.
<b>Precautionary statement - Storage</b>	P405 Store locked up.
<b>Precautionary statement - Disposal</b>	P501 Dispose of contents/container: Recycle packaging by replacing cap and returning clean containers to recycler or designated collection point.

## 3. Composition/information on ingredients

Ingredients	Name	CAS	Proportion
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Potassium hydroxide	1310-58-3	10-30 %
Sodium hypochlorite	7681-52-9	0-4 %
Ingredients determined not to be hazardous, including water.		to 100%

#### 4. First-aid measures

<b>Inhalation</b>	Remove victim to fresh air. Do not use mouth-to-mouth method if victim inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Administer oxygen if breathing is difficult.
<b>Ingestion</b>	Immediately rinse mouth with water. Do NOT induce vomiting. Give a glass of water to be taken slowly. Seek immediate medical attention.
<b>Skin</b>	Remove all contaminated clothing and immediately wash affected area with plenty of water. If swelling, redness, blistering or irritation occurs, seek medical advice.
<b>Eye contact</b>	Hold eyes open and flood with running water for at least 15 minutes, bathe eyes with soothing eyedrops or sterile saline, urgently seek medical attention. Transport to hospital or medical centre.
<b>First Aid Facilities</b>	Eye wash station, safety shower and normal washroom facilities.
<b>Advice to Doctor</b>	Product is a solution of potassium hydroxide and sodium hypochlorite. Corrosive to living tissues. Inhalation may be followed by pulmonary oedema. Treat symptomatically. Contact Poisons Information Centre.

#### 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Use dry chemical, carbon dioxide, foam or water fog, appropriate to surrounding fire.
<b>Hazards from Combustion Products</b>	Corrosive or toxic fumes.
<b>Specific hazards arising from the chemical</b>	If tanks, drums or containers of this material are heated, they may rupture and project corrosive materials over a wide area. May react violently with strong acids. May react vigorously or violently with reducing agents or peroxides. Contact with acids will generate chlorine, a poisonous gas. Contact with some metals will generate hydrogen, a flammable gas. Contact with ammonium salts will generate ammonia, a poisonous gas.
<b>Hazchem Code</b>	2X
<b>Other Information</b>	Avoid contact with coloured fabric as Chlorine may bleach colour out. May give off dangerous gas if mixed with other products.

#### 6. Accidental release measures

<b>Emergency Procedures</b>	Keep unnecessary people away; Isolate hazard area and deny entry. Stay upwind; Keep out of low areas. Do not walk or touch spilt material unless wearing personal protection as outlined under MSDS. Shut off ignition sources, no flares, smoking or flames in hazard area. Stop leak if you can do it without risk. Water spray may reduce vapour.
<b>Spills &amp; Disposal</b>	For large spills: Contain spillages with sand or earth. Transfer both liquid and solids to suitable container(s). Treat residues as for small spills. For small spills: If local regulations permit, mop up with plenty of water and run to waste, diluting greatly with running water. Otherwise, absorb on inert absorbent and transfer to suitable container. Wash site of spillage thoroughly with water and detergent. Ventilate area to dispel any residual vapours.

#### 7. Handling and storage

<b>Conditions for safe storage, including any incompatibilities</b>	Store in a well ventilated place, out of reach of children. Large quantities should be stored in a bunded dangerous goods store. Store in original container. Keep container tightly closed. May slowly lose chlorine on long storage. Keep away from acids, peroxides, reducing agents, combustible materials, and ammonium salts. Keep away from metals and metal salts.
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Prevent contact with aluminium, tin, zinc or galvanised iron. Protect from physical damage. Clean up all spills and splashes promptly; avoid secondary accidents.

## 8. Exposure controls/personal protection

Occupational exposure limit values	Name	STEL		TWA		Footnote
		mg/m3	ppm	mg/m3	ppm	
	Potassium hydroxide			2		Peak limitation
<b>Appropriate engineering controls</b>	Corrosive liquid. Maintain adequate ventilation at all times. In most circumstances natural ventilation systems are adequate unless the material is heated, reacted or otherwise changed in some type of chemical reaction, then the use of a local exhaust ventilation system is recommended.					
<b>Personal Protective Equipment</b>	Prevent contact with the eyes. Avoid contact with the skin. Avoid breathing vapours. NOTE: When diluted at a rate of 1 in 40 or greater, the resulting mixture is no longer considered to be hazardous or poisonous and the use of protective equipment is at the user's discretion. Personal protection to be selected from those recommended below, as appropriate to mode of use, quantity handled and degree of hazard:- Goggles, face shield or safety glasses Gloves, neoprene or nitrile rubber or plastic Plastic apron, sleeves and boots. Respirators in accordance with AS/NZS 1715/1716. The use of a P1 dust mask (disposable) or with replaceable filters is recommended. Always maintain a high level of personal hygiene when using cleaning chemicals. That is wash hands before eating, drinking, smoking or using the toilet.					

## 9. Physical and chemical properties

<b>Form</b>	Liquid
<b>Appearance</b>	Clear pale yellow liquid.
<b>Odour</b>	Typical chlorine like odour
<b>Boiling Point</b>	>120C
<b>Solubility in Water</b>	Miscible with water in all proportions.
<b>Specific Gravity</b>	1.23
<b>pH</b>	12.5-13.5
<b>Flash Point</b>	None
<b>Flammability</b>	Not flammable.
<b>Other Information</b>	Very alkaline. Will react violently with acids, producing heat and generating chlorine gas. Oxidiser. Contact with combustible materials may cause fire. Will react violently with reducing agents. Readily absorbs carbon dioxide from the air. Will react with aluminium, tin and zinc, generating hydrogen, a flammable gas. May react with peroxides and metal salts. Contact with ammonium salts may generate ammonia gas.

## 10. Stability and reactivity

<b>Chemical Stability</b>	Stable under normal use conditons.
<b>Conditions to Avoid</b>	Heat, flames, ignition sources and incompatibles.
<b>Incompatible Materials</b>	Acids, oxidizing agents, ammonium salts, soft metals.
<b>Hazardous Decomposition Products</b>	Emits choking and corrosive fumes when heated to decomposition.

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**Possibility of hazardous reactions** Contact with aluminium, tin, zinc or galvanised iron can generate hydrogen, a flammable gas. Contact with ammonium compounds can generate ammonia, a poisonous gas. Will react vigorously or violently with acids, generating chlorine gas. May form toxic oxides of Chlorine if involved in a fire.

## 11. Toxicological Information

**Toxicology Information** No adverse health effects are expected, if the product is handled in accordance with this Material Safety Data Sheet and the product label. Symptoms and effects that may arise if the product is mishandled and overexposure occurs are:

**Acute Toxicity - Oral** LD 50 : Potassium hydroxide 365 mg/kg oral, rat  
Sodium hypochlorite 5800 mg/kg oral, mouse

**Ingestion** Can be fatal. Corrosive. Causes burns to mouth and throat, nausea, vomiting, abdominal pains and diarrhoea (occasionally bloody). Can also cause swelling of the larynx and suffocation, perforation of stomach and intestines with constrictive scarring, heart failure and coma.

**Inhalation** Will cause severe irritation to the nose, throat and respiratory system with effects including: Dizziness, headache, coughing, loss of co-ordination, chest pains, respiratory paralysis and or failure.

**Skin** Corrosive to skin - may cause skin burns, with effects including; Redness, blistering, localised pain, dermatitis and deep burns. Skin contact often does not cause immediate pain, thus care should be taken to avoid contamination of gloves and footwear. Repeated or prolonged contact may lead to irritant contact dermatitis.

**Eye** Will cause severe burns to the eyes with effects including: Pain, tearing, corneal opacity and blindness. If prompt action is not taken, permanent eye damage will occur.

**Chronic Effects** Prolonged or repeated skin contact will lead to necrosis (death) of the skin.

## 12. Ecological information

**Ecotoxicity** This product is corrosive and poisonous in large concentrations, particularly in the aquatic environment.

**Persistence and degradability** Inherently biodegradable.

**Mobility** Readily dilutes with water.

**Information on Ecological Effects** This substance may cause long term adverse effects in the aquatic environment.

**Environmental Protection** Avoid contaminating waterways, drains, sewers, or ground.

## 13. Disposal considerations

**Waste Disposal** Refer to appropriate authority in your State. Dispose of material through a licensed waste contractor. Normally suitable for disposal by approved waste disposal agent.

## 14. Transport information

**Transport Information** Classified as a Class 8 Dangerous Good. Dangerous Goods of Class 8 Corrosives 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 and Class 7. Store away from acids.

**U.N. Number** 3266

**UN proper shipping name** CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.

**Transport hazard class(es)** 8

**Hazchem Code** 2X

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**Packaging Method** 3.8.8**Packing Group** II**IERG Number** 37**15. Regulatory information****Poisons Schedule** S6**Hazard Category** Corrosive**AICS (Australia)** All components listed.**16. Other Information****Signature of Preparer/Data Service** Technical Manager 03 9580 2499**Technical Contact Numbers** Emergency Advice All Hours:  
Tel: 0409 949 298 Mon-Fri 8am - 6pm  
Poisons Information Centre: 13 11 26 - 24hrs**Other Information** This SDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the Workplace. Please refer to the technical datasheet (Instructions for use), and the label on the drum. The company cannot anticipate or control the individual working conditions encountered and so each user should read this SDS carefully, and if in doubt ring the Contact Point Number given below.  
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