



SAFETY DATA SHEET	
CUSTOM CHEMICALS INTERNATIONAL	Product: AUTO DISH DESC LQD
Date of Issue: JULY 2012	Page 1 of Total 8

## SECTION 1 – STATEMENT OF CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**SUPPLIER:** Custom Chemicals international Pty Ltd  
**ADDRESS:** 103-107 Potassium Street, Narangba 4504 Queensland Australia  
**Trade Name:** **AUTO DISHWASH DESCALER LIQUID**  
**TELEPHONE:** +617 3204 8300 **FAX:** +617 3204 8311  
**AHEMERGENCY TELEPHONE:** 13 1126 in Australia **ABN:** 73 050 573 674  
**Substance:** Acidic liquid **Product Use:** Detergent  
**Creation Date:** JULY 2012 **Revision Date:** JULY 2017  
**Product Code:** 0010014,0010155[5L],0050140 [5L], 0010155 [20L]

## SECTION 2 – HAZARDS IDENTIFICATION

- This product is **classified as HAZARDOUS (CORROSIVE)** according to criteria of the National Occupational Health and Safety Commission Australia.
- This product is **classified as Dangerous Goods CLASS 8** according to the Australian Dangerous Goods (ADG) Code.
- This product is **classified as a Schedule 6 Poison** according to the SUSMP.

**Approved NOHSC Classification (calculated)** C . CORROSIVE R34 - Causes burns.  
S(1/2) - Keep locked up and out of the reach of children. S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label wherever possible).

<b>UN Number</b>	1805	<b>ADG Classification</b>	8
<b>Shipping Name</b>	PHOSPHORIC ACID	<b>ADG Subsidiary Risk</b>	None allocated
<b>Hazchem Code</b>	2R	<b>Packing Group</b>	III
<b>SUSMP Classification</b>	S6 POISON	<b>ADG Class</b>	



## EMERGENCY OVERVIEW

<b>Colour</b>	Transparent - clear	<b>Odour</b>	Faint odour
<b>Physical Description</b>	Aqueous liquid	<b>Viscosity</b>	Non-viscous
<b>Major Health Hazards</b>	CORROSIVE . skin, eyes, mucous membranes.		

## SECTION 3 – COMPOSITION AND INFORMATION ON INGREDIENTS

Ingredients determined not to be hazardous are present in concentrations that do not exceed the relevant cut-off concentrations as found from NOHSC publication **list of Designated Hazardous Substances** or have been found NOT to meet the criteria of a hazardous substance as defined in the NOHSC publication **Approved Criteria for Classifying Hazardous Substances**.

Ingredients:	CAS Number:	Proportion:	Exposure Standards TWA	Exposure Standards STEL
Alcohol ethoxylates	various	< 10% w/w	not set	not set
Phosphoric acid	7664-38-2	30 . 60 % w/w	1 mg/m <sup>3</sup>	3 mg/m <sup>3</sup>
1-methoxy-2-propanol	107-98-2	10 . 30 % w/w	100ppm	not set
Ingredients determined to be non-hazardous	Various	< 10% w/w	not set	not set
Water	7732-18-5	> 60% w/w	not set	not set

The **TWA** exposure value is the Time Weighted Average airborne concentration of a particular substance when calculated over



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a normal 8 hour working day for a 5 day working week. The **STEL** (Short Term Exposure Limit) is an exposure value that should not be exceeded for more than 15 minutes and should not be repeated for more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term **%peak+** is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

## SECTION 4 – FIRST AID MEASURES

<b>Scheduled Poisons</b>	Poisons Information Centre in each Australian State capital city or in Christchurch, New Zealand can provide additional assistance for scheduled poisons. (Phone Australia 131126 or New Zealand 0800 764 766).
<b>First Aid Facilities</b>	Normal washroom facilities. Emergency eye wash.
<b>Skin contact</b>	Wash skin with plenty of water. Remove contaminated clothing and wash before re-use. Seek medical advice (e.g. doctor) if irritation, burning or redness develops.
<b>Eye contact</b>	Immediately irrigate with copious quantities of water for at least 20 minutes. Eyelids to be held open. Seek medical advice (e.g. ophthalmologist).
<b>Ingestion</b>	Do NOT induce vomiting. Do NOT attempt to give anything by mouth to an unconscious person. Rinse mouth thoroughly with water immediately. Give water to drink. If vomiting occurs, give further water to achieve effective dilution. Seek medical advice (e.g. doctor).
<b>Inhalation</b>	Remove person to fresh air and avoid exposure. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position, keep warm and to rest. If breathing has stopped apply artificial respiration at once. Seek medical advice (e.g. doctor).
<b>Advice to Doctor</b>	Treat symptomatically. All treatments should be based on observed signs and symptoms of distress of the patient. Poisons Information Centre in each Australian State capital city or in Christchurch, New Zealand can provide additional assistance for scheduled poisons.
<b>Aggravated Medical Conditions</b>	None known.

## SECTION 5 – FIRE FIGHTING MEASURES

<b>Fire and Explosion Hazards</b>	Not combustible. However if involved in a fire will emit toxic fumes. Pressure burst may occur due to decomposition in confined spaces/containers.
<b>Extinguishing Media</b>	Use an extinguishing media suitable for surrounding fires.
<b>Fire Fighting</b>	Keep containers exposed to extreme heat cool with water spray. Fire fighters to wear self-contained breathing apparatus if risk of exposure to products of combustion or decomposition. Evacuate area - move upwind of fire.
<b>Flash Point</b>	None

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

<b>Emergency Procedures</b>	<b>HAZCHEM CODE: 2R</b> 2 = water fog . in the absence of fog, a fine spray may be used. R = No risk of violent explosion, Full protective clothing, Dilute. Shut off engine and electrical equipment and leave off. No smoking or naked lights within 50 metres. Move people from immediate area; keep upwind. Consider initial evacuation distance of 100 metres in all directions. Stop leak if safe to do so. Send messenger to notify fire brigade and police. Tell them location, material quantity, UN number and emergency contact. Indicate condition of vehicle and damage or injuries observed. Warn other traffic.
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**Occupational Release** Minor spills do not normally need any special clean-up measures. Rinse with water. In the event of a major spill, prevent spillage from entering drains or water courses. Wear appropriate protective equipment as in section 8 below to prevent skin and eye contamination. Spilt material should be shoveled up into appropriately labelled drums for disposal by an approved agent according to local conditions. Neutralize residues with alkali, eg soda ash and flush spill area with water. Residual deposits will remain slippery. If contamination of sewers or waterways has occurred advise the local emergency services. In the event of a large spillage notify the local environment protection authority or emergency services.

## SECTION 7 – HANDLING AND STORAGE

**Handling** Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers closed at all times. Avoid physical damage to containers. Always wash hands with water after handling.

**Storage** Store in a cool, dry, place with good ventilation. Avoid storing in aluminium and light alloy containers. Store away from incompatible materials (Section 10). Keep containers closed at all times . check regularly for leaks. Store as Schedule 6 Poison.

## SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Exposure Limits** National Occupational Exposure Limits, as published by National Occupational Health & Safety Commission:  
**Time-weighted Average (TWA):** None established for specific product.  
See **SECTION 3** for Exposure Limits of individual ingredients.  
**Short Term Exposure Limit (STEL):** None established for specific product.  
See **SECTION 3** for Exposure Limits of individual ingredients.

**Biological Limit Value** None established for product.

**Engineering Controls** Ensure ventilation is adequate to maintain air concentrations below exposure standards. Avoid generating mists of the product. Use only in a well-ventilated area. Ensure airflow, where this product is used, is directed away from the operators. Where high contaminant spray mist or vapour levels exist, ie, approaching the exposure limit, the following additional equipment is required: For short elevated exposures, eg, spillages:- Appropriate organic vapour cartridge respirator as per the requirements of AS/NZS 1715 and AS/NZS 1716 (Respiratory protective devices). For prolonged exposure and confined spaces:- full face air supplied or self contained breathing apparatus (if vapour levels exceed the Exposure Limit by more than ten times, air supplied apparatus should be used).

**Personal Protective Equipment** Use good occupational work practice. The use of protective clothing and equipment depends upon the degree and nature of exposure. Final choice of appropriate protection will vary according to individual circumstances i.e. methods of handling or engineering controls and according to risk assessments undertaken. The following protective equipment should be available;

**Eye Protection** The use of safety glasses with side shield protection, goggles or face shield is recommended to handle in quantity, cleaning up spills, decanting, etc. Contact lenses pose a special hazard; soft lenses may absorb irritants and all lenses concentrate them.



### Skin Protection



Overalls, apron, chemical resistant work boots and elbow length gloves are recommended for handling the concentrated product (as per AS/NZS 2161, or as recommended by supplier) to handle in quantity, cleaning up spills, decanting, etc.



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### Protective Material Types

Material suitable for detergent contact . Butyl rubber, Natural Latex, Neoprene, PVC, and Nitrile.

### Respirator



Not required for normal cleaning operations as per label directions with diluted solutions and adequate ventilation.

If the exposure limit is exceeded briefly, a full facepiece respirator with an organic vapour cartridge may be worn. For short elevated exposures, eg, spillages:- Appropriate organic vapour cartridge respirator as per the requirements of AS/NZS 1715 and AS/NZS 1716 (Respiratory protective devices). For emergencies or instances where the exposure levels are not known, use a full-face piece positive-pressure, air-supplied respirator. Exposure Limit by more than ten times, air supplied apparatus should be used).

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Non-viscous liquid	<b>Colour</b>	Transparent clear
<b>Odour</b>	Acidic odour.	<b>Specific Gravity</b>	1.24 . 1.26 @ 25 °C
<b>Boiling Point</b>	Approximately 100 °C	<b>Freezing Point</b>	Approximately 0 °C
<b>Vapour Pressure</b>	Not available	<b>Vapour Density</b>	Not available
<b>Flash Point</b>	Not flammable	<b>Flammable Limits</b>	None
<b>Water Solubility</b>	Miscible in all proportions	<b>PH</b>	< 2.0 neat
<b>Volatile Organic Compounds (VOC)</b>	0 % v/v	<b>Coefficient of Water/Oil Distribution</b>	Not available
<b>Viscosity</b>	Not available	<b>Odour Threshold</b>	Not available
<b>Evaporation Rate</b>	Not available	<b>Per Cent Volatile</b>	Ca 60 % v/v

## SECTION 10 – STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable at normal temperatures and pressure.
<b>Conditions to Avoid</b>	Avoid contact with heat or heat sources. Avoid contact with incompatible materials such as bases, non-ferrous metals (e.g. Aluminium, Zinc or Tin) and their alloys.
<b>Incompatible Materials</b>	Non-ferrous metals (e.g. Aluminium, Zinc or Tin) and their alloys. Strong bases and, strong oxidizing and reducing agents; sulphides, phosphides, cyanides, acetylides, fluorides and carbides.
<b>Hazardous Decomposition Products</b>	Attacks many reactive metals (aluminium/magnesium/zinc alloys) releasing highly flammable gas (hydrogen) which generates fire or explosion hazards. In the presence of bases, exothermic (heat producing) reaction may occur. Product can decompose on combustion to form Carbon Monoxide, Carbon Dioxide, and other possibly toxic gases and vapours on burning (phosphorus oxides).
<b>Hazardous Reactions</b>	None known.

## SECTION 11 – TOXICOLOGICAL INFORMATION

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

<b>Ingestion</b>	
<b>short term exposure</b>	This product, containing ingredient Phosphoric acid, may cause burning to the mouth, throat, gastrointestinal tract on ingestion. Ingestion of this product may cause burns to the mouth and throat, pain in the stomach, difficulty in breathing, nausea, vomiting, diarrhea, and convulsions. It may cause gastric or esophageal perforation.
<b>long term exposure</b>	No information available.
<b>Skin contact</b>	



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**short term exposure**

This product, containing ingredient Phosphoric acid, may cause burns to the skin.

**long term exposure**

Prolonged and repeated skin contact with solutions may induce eczematoid dermatitis in certain individuals.

**Eye contact**

**short term exposure**

This product, containing ingredient Phosphoric acid, may cause burns to the eye. Mists may cause severe eye irritation. When splashed in the eyes, concentrated solutions can cause severe burns, pain and eye damage.

**long term exposure**

No information available.

**Inhalation**

**short term exposure**

No vapour generally associated with liquid form of the product . water based. Aerosols of this product, containing ingredient Phosphoric acid, are irritant to the respiratory system. Breathing this material may be harmful. Symptoms may include severe irritation and burns to the nose, throat, and respiratory tract, respiratory irritation and possible harmful corrosive effects including lesions of the nasal septum, pulmonary edema, pneumonitis and emphysema.

**long term exposure**

No information available.

**Carcinogen Status**

**NOHSC**

No significant ingredient is classified as carcinogenic by NOHSC.

**NTP**

No significant ingredient is classified as carcinogenic by NTP.

**IARC**

No significant ingredient is classified as carcinogenic by IARC.

**Medical conditions aggravated by exposure**

No information available.

### PRODUCT MIXTURE INFORMATION

**Local Effects**

Corrosive: eye, skin, inhalation and ingestion.

**Target Organs**

Eyes, mucous membranes, skin, lungs, central nervous system, kidneys, liver.

**Individual Ingredient Information**

**NOTE :** This information relates to each individual ingredient, when evaluated as pure undiluted chemical. See Section 3 for proportions of ingredients present in the product.

### CLASSIFICATION OF INDIVIDUAL INGREDIENTS

**Ingredients**

Phosphoric acid  
1-methoxy-2-propanol

**R-Phrases.**

R34 . Causes burns.  
R10 . Flammable. R67 . Vapours may cause drowsiness and dizziness.

### 100% 1-METHOXY-2-PROPANOL (PGME)

**Irritation Data**

PGME is not a skin sensitizer or skin irritant, and was only slightly irritating to the eye.

**Toxicity Data**

PGME exhibits low acute toxicity by the oral, dermal, and inhalation routes. The oral LD 50 ranges from 1,840 mg/kg in rabbits, 4,600 mg/kg in dogs, to >5,000 mg/kg in rats. Dermal LD 50 values were 13-14 gm/kg in rabbits. Inhalation LC 50 values were generally above 6,000 ppm for rats, mice, and guinea pigs. In repeated dose studies (11 days to six months) NOAELs of 300 ppm and higher have been observed in inhalation studies using rats, mice, rabbits, guinea pigs, and monkeys. Effects observed included sedation, hepatic changes, and decrease in body weight gain. NOAELs (oral) of 459.5 mg/kg and 919 mg/kg were observed in rat studies lasting 13 and 5 weeks, respectively.

**Local Effects**

Irritant: inhalation, skin, eye.

**Target Organs**

Skin, eyes.

**Acute Toxicity Level**

Harmful- inhalation, dermal absorption, ingestion.

**Mutagenic Data**

In reproductive toxicity testing, effects observed at 3000 ppm appear to be related to decreased maternal body weights and secondary to general toxicity and nutritional stress. Decreased maternal body weights were also noted at 1000 ppm. The NOAELs observed in the two-generation study were 300 ppm for adults and 1,000 ppm for offspring.



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**Reproductive Effects Data** Studies in rats, mice, and rabbits showed that PGME was not teratogenic (two inhalation and three gavage studies with teratogenicity NOAELs of 3000 ppm and 800 to 2000 mg/kg, respectively).

#### 100% PHOSPHORIC ACID

**Irritation Data** LD50 (dermal, rabbit): 2,740 mg/kg. Skin Irritation - Standard Draize Test: Rabbit, 595 mg/24H: Severe. Eye Irritation - Standard Draize Test: Rabbit, 119 mg: Severe  
Corrosive to skin - skin contact will cause redness, itching, irritation, severe pain and chemical burns with resultant tissue destruction. Corrosive to eyes.

**Toxicity Data** For Phosphoric acid: LD50 (oral, rat): 1,530 mg/kg  
Ingestion of this product may cause burns to the mouth and throat, pain in the stomach, difficulty in breathing, nausea, vomiting, diarrhea, and convulsions. It may cause gastric or esophageal perforation.

**Local Effects** Corrosive: inhalation, skin, eye, ingestion

**Chronic Toxicity** Prolonged exposures can cause necrosis of nasal passages and edema of lungs. There is no evidence that phosphorus poisoning can result from contact with phosphoric acid. Can cause dermatitis.

**Target Organs** Skin, mucous membranes, eyes.

**Acute Toxicity** Slightly Toxic: ingestion

**Reproductive Effects** No available information.

**Mutagenic Data** No available information.

**Carcinogenic Data** No available information.

## SECTION 12 – ECOLOGICAL INFORMATION

**Fish toxicity** None available for specific product.

**Algae toxicity** None available for specific product.

**Invertebrates toxicity** None available for specific product.

**Toxicity to Bacteria** None available for specific product.

**OECD Biological degradation** Individual components stated to be biodegradable.

**General** Product miscible in all proportions with water. AS WITH ANY CHEMICAL PRODUCT, DO NOT DISCHARGE BULK QUANTITIES INTO DRAINS, WATERWAYS, SEWER OR ENVIRONMENT. Inform local authorities if this occurs.

## SECTION 13 – DISPOSAL CONSIDERATIONS

Refer to State Land Waste Management Authority. Transfer product residues to a labelled, sealed container for disposal or recovery. Waste disposal must be by an accredited contractor. Do not put down the drain.

## SECTION 14 – TRANSPORT INFORMATION

<b>UN Number</b>	1805	<b>ADG Classification</b>	8
<b>Shipping Name</b>	PHOSPHORIC ACID	<b>ADG Subsidiary Risk</b>	None allocated
<b>Hazchem Code</b>	2R	<b>Packing Group</b>	III
<b>Packaging Method</b>	3.8.8 RT8	<b>Special Provisions</b>	None allocated



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### Segregation

This material is a Class 8 Corrosive Substance according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. Class 8 - Corrosive Substances are incompatible in a placard load with any of the following:

- Class 1, Explosives,
- Class 4.3, Dangerous When Wet Substances,
- Class 5.1, Oxidizing Agents & Class 5.2 Organic Peroxides,
- Class 6, Toxic Substances (where the Toxic substances are cyanides and the corrosives are acids),
- Class 7, Radioactive Substances,
- Class 8, Corrosive Substances (concentrated strong acid is to be segregated from strong alkali), and are incompatible with food and food packaging in any quantity.

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## SECTION 15 – REGULATORY INFORMATION

### Labeling Details

**HAZARD**  
**RISK PHRASES**  
**SAFETY PHRASES**

**CORROSIVE**  
R34 - Causes burns.  
S(1/2) . Keep locked up and out of reach of children.  
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label whenever possible).

### SUSMP

S6 (PHOSPHORIC ACID)  
**Signal word:** POISON  
**Cautionary Statement/s:**  
KEEP OUT OF REACH OF CHILDREN  
READ SAFETY DIRECTIONS BEFORE OPENING  
**First Aid:**  
(A) For advice, contact a Poisons Information Centre (e.g. phone Australia 131 126; New Zealand 0800 764 766) or a doctor (at once).  
(G3) If swallowed, DO NOT induce vomiting.  
(E2) If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre (e.g. phone Australia 131 126; New Zealand 0800 764 766) or a doctor, or for at least 15 minutes.  
(S1) If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.

**Warning:** (1) Highly corrosive.  
**Safety Directions:** (4) Avoid contact with skin.

**ADG Code**  
**AICS**

8  
All ingredients present on AICS.

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## SECTION 16 – OTHER INFORMATION

### Acronyms

SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons.
ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail.
CAS Number	Chemical Abstracts Service Registry Number.
UN Number	United Nations Number.
R-Phrases	Risk Phrases.
HAZCHEM	An emergency action code of numbers and letters which gives information to emergency services.
NOHSC	National Occupational Health and Safety Commission.
NTP	National Toxicology Program (USA).
IARC	International Agency for Research on Cancer.
AICS	Australian Inventory of Chemical Substances.
TWA	Time Weighted Average
STEL	Short Term Exposure Limit



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**Literature References**

List of Designated Hazardous Substances [NOHSC:10005(1999)]  
Australian Code For The Transport Of Dangerous Goods By Road And Rail . Seventh Edition.  
Standard for the Uniform Scheduling of Medicines and Poisons 2011.  
National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC:2011(2003)]  
Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(1999)]  
Material Safety Data Sheets . individual raw materials . Suppliers.  
HSIS . Hazardous Substance Information System . National Worksafe Data Base.

**Revision Information**

New Issue to standard : 2nd Edition [NOHSC:2011(2003)].

**Note**

Safety Data Sheets are updated frequently. Please ensure that you have a current copy.

**Contact Point**

Regulatory Affairs Manager.

**Telephone**

(07) 3204 8300

**Issue Date**

JULY 2012

**Supersedes Issue Date**

JULY 2007

This SDS summarizes at the date of issue our best knowledge of the health and safety hazard information of this product, and in particular how to safely handle and use this product in the workplace. Since the supplier cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this SDS in the context of how the user intends to handle and use the product in the workplace. If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this supplier.