

## SAFETY DATA SHEET

### 1. IDENTIFICATION OF THE MATERIAL AND THE SUPPLIER

**Product Name:** D.W. DESCALER

**Recommended use:** Acidic Detergent

**Supplier:** Challenge Chemicals Australia  
**ACN:** 68 059 129 568  
**Street Address:** 6 Butcher Street  
 KWINANA  
 PERTH W.A. 6167

**Telephone:** (08) 9419 5577  
**Facsimile:** (08) 9419 4958

**Emergency Telephone number:** (08) 9419 5577 (7.00am to 4.30pm)  
 0419 049 003

### 2. HAZARDS IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO AUSTRALIAN WHS REGULATIONS

**GHS Classification(s)** Skin Corrosion / Irritation: Category 1B

**Signal Word:** DANGER

**Pictograms:**



<b>Hazard Statement(s):</b>	H314	- Causes severe skin burns and eye damage.
<b>Prevention Statement(s):</b>	P260 P264 P280	- Do not breath dust/fume/gas/mist/vapours/spray. - Wash thoroughly after handling. - Wear protective gloves, clothing, eye and face protection.
<b>Response Statement(s):</b>	P301+P330+P331 P303+P361+P353	- If swallowed, rinse mouth. Do NOT induce vomiting. - If on skin (or hair), Remove / take off immediately all contaminated clothing. Rinse skin with water/shower.
	P304+340	- If inhaled, remove to fresh air and keep at rest in a position comfortable 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 CENTRE or doctor/physician.
	P321 P363	- Specific treatment is advised – see first aid instructions. - Wash contaminated clothing before reuse.
<b>Storage Statement(s):</b>	P405	- Store locked up.

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**Version:** A/1

**Disposal Statement(s):** P501 - Dispose of contents/container in accordance to relevant regulations.  
**Other Hazards:** No information provided.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Recommended use:** Acidic detergent.

**Appearance:** Pale green thin liquid.

CHEMICAL ENTITY	CAS NO.	EC Number	Content
Water	7732-18-5	231-791-2	>60%
Phosphoric Acid	7664-38-2	231-633-2	<50%
Other ingredients determined to be Non Hazardous.	Not Available	Not Available	Remainder

All the constituents of this materials are listed on the Australian Inventory of Chemical Substances (AICS).

### 4. FIRST AID MEASURES

Poison Information Centres in each State capital city can provide additional assistance for scheduled poisons. Ring 13 11 26

**Ingestion:** Immediately rinse mouth with water. Give water to drink. Do NOT induce vomiting. If vomiting occurs, place victim's face downwards, head lower than hips to prevent vomit entering lungs. Seek immediate medical assistance.

**Eye Contact:** Immediately irrigate with copious quantities of water for at least 15 minutes. Eyelids to be held open. Seek medical assistance if irritation persists.

**Skin Contact:** Immediately wash contaminated skin with plenty of water. For gross contamination, immediately drench with water and remove clothing. Remove contaminated clothing and wash before re-use.

**Inhalation:** Remove victim from exposure – avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered.

**Important Symptoms:** See section 11 for more detailed information on health effects and symptoms.

**Notes to physician:** Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

**Fire fighting further advice:** Not combustible. Fire fighters to wear self-contained breathing apparatus if risk of exposure to vapour or products of combustion.

**Suitable extinguishing media:** Water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder).

**Special Hazards:** Not combustible. However, reaction with metals will produce flammable hydrogen gas which will burn if ignited.

**Hazchem Code:** 2X.

## 6. ACCIDENTAL RELEASE MEASURES

Slippery when spilt. Clear area of all unprotected personnel. Contain using sand or soil. Inert material or vermiculite. Spills may be neutralized using soda ash or lime. Collect and seal in properly labeled containers for disposal. Prevent runoff from entering drains and waterways. Small spills may be flushed with copious amounts of water.

Wear personal protective equipment as detailed in section 8 of the SDS.

## 7. HANDLING AND STORAGE

**Storage:** Ensure containers are adequately labelled and sealed when not in use. Store in a cool ventilated area away from oxidising agents, alkalis, sulphides, metal powders, cyanides, heat and ignition sources.

Before use carefully read the product label. Safe working practices are recommended.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### National occupational exposure limits.

Major constituent, Phosphoric Acid: SWA (Aust) – TWA 1mg/m<sup>3</sup> - STEL 3mg/m<sup>3</sup>

**Biological Limits:** No biological limits entered for this product.

As published by the National Occupational Health and Safety Commission (Worksafe Australia).

Peak limitation – a ceiling concentration which should not be exceeded over a measurement period which should be as short as possible but not exceeding 15 minutes.

This exposure standard is a guide to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. Exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

**Engineering Measures:** Avoid inhalation. Use in well ventilated areas. The use of mechanical extraction ventilation is recommended.

**Personal Protection Equipment:** Wear safety goggles, PVC or rubber gloves and coveralls. If an inhalation risk exists use a Type B respirator.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Form / Colour / Odour: Pale green thin liquid.

Specific Gravity : 1.19

Rel Vapour Density: Not determined

Vapour Pressure : Not determined

Flash Point: Not determined

Flammability Limits: Not determined

Autoignition Temp (C): Not determined

% Volatile by Volume: 65

Solubility in Water: 100%

Melting Point (C): 21 °C

Boiling Point (C): 158°C

Decomp. Point (C): Not determined

Sublimation Point: Not applicable

pH: <1

Viscosity: Not determined

Evaporation Rate: Not determined

## 10. STABILITY AND REACTIVITY

**Stability:** Stable

**Reactivity:** Carefully review all information provided below.

**Hazardous Polymerisation:** Will not occur.

**Conditions to Avoid:** Open flames, heat, sparks and other ignition sources.

**Materials to Avoid:** Oxidising agents, cyanides, alkalis, sulphides and metal powders

**Hazardous Decomposition Products:** May evolve toxic gases when heated to decomposition.

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## 11. TOXICOLOGICAL INFORMATION

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

**Acute Toxicity:** Based on the available data this product is expected to be of low toxicity.

The following data is available for Phosphoric Acid: Oral LD<sub>50</sub> 1530mg/kg (rat)  
Dermal LD<sub>50</sub> 2740 mg/kg (rabbit)

**Ingestion:** Swallowing may result in nausea, vomiting, diarrhoea and abdominal pain. May cause burns to mouth, throat and stomach.

**Eye Contact:** Causes irritation or burns. Contamination of the eyes may result in permanent damage.

**Skin Contact:** Repeated or prolonged skin contact may lead to irritant contact dermatitis. May cause skin burns, dryness or cracking.

**Inhalation:** Inhalation of mists may result in respiratory irritation and possible harmful corrosive effects to the nose, throat and mucous membranes.

**Sensitisation:** No sensitisation to skin or respiratory system.

**Mutagenicity Carcinogenicity and Reproductive Toxicity:** Not classified as a mutagen, carcinogen or reproductive toxin.

**Specific Target Organ Toxicity (STOT-RE & STOT-SE):** Over exposure may result in irritation to the nose & throat, coughing and bronchitis. High level exposure may result in lung damage, pneumonitis, pulmonary oedema and ulceration of the respiratory tract. Not classified as causing organ damage from repeated exposure.

**Aspiration Hazard:** Not classified as causing aspiration.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** No information provided.

**Bioaccumulative Potential:** Not expected to bioaccumulate.

**Persistence and Degradability:** Acidity may be reduced by natural water hardness minerals and the phosphate may persist indefinitely.

**Mobility in Soil:** Will permeate downwards and may dissolve some soil matter. Some acid will be neutralized, however significant amounts will remain and may enter the groundwater.

**Other adverse effects:** No information provided.

Avoid contaminating waterways.

## 13. DISPOSAL CONSIDERATIONS

Small spills can be greatly diluted with water or carefully neutralized with dilute alkali and flushed to drain with copious amounts of water. Alternatively, normally suitable for disposal at approved land waste site after neutralization.

Dispose of waste water according to local, state and federal regulations.

## 14. TRANSPORT INFORMATION

Classified as Dangerous Goods according to ADG7, IATA-DGR and IMDG codes.

UN Number: 1760

Proper Shipping Name: Corrosive Liquid, N.O.S.

Transport Hazard Class: 8

Packaging Group: II

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**Environmental Hazards:** No information provided.

**Special Precautions:** GTEPG: 8A1 EMS: F-A,S-B.

**Hazchem Code:** 2X.

## 15. REGULATORY INFORMATION

**Poison Schedule:** Classified as a schedule 5 (S5) as per SUSMP criteria.

**Inventory Listings:** All ingredients are listed in the Australian Inventory of Chemical Substances, AICS.

**Classified and User Label Information:** Classification and labelling have been performed according to regulations.

## 16. OTHER INFORMATION

### Abbreviations and Acronyms:

ADG7 -	Australian Code for the Transport of Dangerous Goods 7 <sup>th</sup> edition.
AICS -	Australian Inventory of Chemical Substance.
Cas No -	Chemical Abstracts Service Number (or CAS Registry Number).
EC Number -	European Community Number.
EMS -	Emergency Schedules (emergency procedures for ships carrying dangerous goods).
GHS -	Globally Harmonised System of Classification and Labelling of Chemicals.
GTEPG -	Group Text Emergency Procedures Guide.
Hazchem -	Emergency Action Code of Numbers and Letters that provide information to emergency services.
IATA-DGR -	Dangerous Goods Regulations by the International Air Transport Association.
IMDG -	International Maritime Code for Dangerous Goods.
PH -	Relates to Hydrogen Ion Concentration using a scale of 0 (High Acidic) to 14 (High Alkaline).
SDS -	Safety Data Sheet.
STOT-RE -	Specific Target Organ Toxicity (Repeated Exposure).
STOT-SE -	Specific Target Organ Toxicity (Single Exposure).
SUSMP -	Standard for the Uniform Scheduling of Medicines and Poisons.

This SDS summarises at the date of issue or 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. Since Challenge Chemicals Australia and its subsidiaries 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 company.

Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.

**Date of SDS Preparation:** 08/11/2016

**Edition, Revision:** Edition A, Revision 0

**Reason for Issue:** GHS Update