



# SAFETY DATA SHEET

Product Name: **DESCALER**

Date of Issue: August 2021

V#3.0

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

|                  |                                   |                |                 |
|------------------|-----------------------------------|----------------|-----------------|
| Trade Name:      | <b>DESCALER</b>                   |                |                 |
| SUPPLIER:        | ECOCLEAN UTILITY AGENCIES PTY LTD |                |                 |
| ADDRESS:         | PO Box 6224 YATALA DC 4207        |                |                 |
| TELEPHONE:       | (07) 5549 3622                    | FAX:           | (07) 5549 3666  |
| EMERGENCY PHONE: | 13 1126 in Australia.             | ABN:           | 72 135 037 160  |
| Substance:       | Water based liquid                | Product Use:   | Acidic descaler |
| Creation Date:   | August 2021                       | Revision Date: | August 2026     |

## SECTION 2 – HAZARDS IDENTIFICATION

### Classification of the substance or mixture

|                    |   |
|--------------------|---|
| Poisons Schedule   | S5 (PHOSPHORIC ACID)  |
| Dangerous Goods    | Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.   |
| GHS Classification | Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia. <ul style="list-style-type: none"> <li>• <b>Serious Eye Damage/Irritation Category 1</b></li> <li>• <b>Skin Irritation Category 2</b></li> </ul> |

### Label elements

|                      |  |
|----------------------|--|
| GHS label pictograms |  |
| Signal word          | <b>DANGER</b>  |

### Hazard statement(s)

|      |                            |
|------|----------------------------|
| H318 | Causes serious eye damage. |
| H315 | Causes skin irritation.    |

### Precautionary statement(s): General

|      |                                |
|------|--------------------------------|
| P102 | Keep out of reach of children. |
| P103 | Read label before use.         |

### Precautionary statement(s): Prevention

|      |  |
|------|--|
| P280 | Wear eye protection/face protection and protective gloves. |
| P264 | Wash hands and skin thoroughly after handling.             |

### Precautionary statement(s): Response

|                |  |
|----------------|--|
| 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/doctor/...  |
| P302 + P352    | IF ON SKIN: Wash with plenty of water/...  |
| P332 + P313    | If skin irritation occurs: Get medical advice/attention.   |
| P362           | Take off contaminated clothing and wash before reuse.  |
| P321           | Specific treatment (see First Aid Measures on this label).   |

### Precautionary statement(s): Storage

|  |                |
|--|----------------|
|  | None allocated |
|--|----------------|

### Precautionary statement(s): Disposal



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None allocated

## Note

### IMPORTANT

This SDS and the Hazard Classifications contained therein, only apply to the product in its concentrated form, as supplied. When diluted to 1:10 or greater they no longer apply. However, good hygiene and housekeeping practices should be adhered to.

## SECTION 3 – COMPOSITION AND INFORMATION ON INGREDIENTS

| Ingredients:                               | CAS Number: | Proportion:  |
|--|-------------|--------------|
| Orthophosphoric acid                       | 7664-38-2   | 10 - 30% w/w |
| Ingredients determined to be non-hazardous | various     | < 10 % w/w   |
| Water                                      | 7732-18-5   | To 100 % w/w |

NOTE: 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", or have been found NOT to meet the criteria of a dangerous substance as defined in the GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS). Listed ingredients may be below the cut-off concentrations for classification as hazardous, but are listed for information purposes and for additive effects.

## SECTION 4 – FIRST AID MEASURES

|                             |  |
|-----------------------------|--|
| <b>Inhalation</b>           | Remove victim to fresh air away from exposure. Obtain medical attention if symptoms occur.   |
| <b>Skin contact</b>         | Immediately wash contaminated skin with plenty of soap and water. Remove contaminated clothing and wash before re-use. Seek medical advice (e.g. doctor) if irritation, burning or redness persists.   |
| <b>Eye contact</b>          | If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Immediately call a POISON CENTER or doctor/physician. |
| <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>Advice to Doctor</b>     | Treat symptomatically.   |
| <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> | Eye wash station. Normal washroom facilities.  |

## SECTION 5 – FIRE FIGHTING MEASURES

|                                   |   |
|-----------------------------------|---|
| <b>Fire and Explosion Hazards</b> | Non flammable liquid. However, on evaporation of the aqueous component, the residual material may burn.   |
| <b>Extinguishing Media</b>        | Use an extinguishing media suitable for surrounding fires. Use carbon dioxide (CO <sub>2</sub> ) fire extinguisher, water fog or alcohol resistant foam or fine water spray.            |
| <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. |
| <b>Flash Point</b>                | None  |

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

|                             |  |
|-----------------------------|--|
| <b>Emergency Procedures</b> | 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 personal protective equipment and clothing to prevent exposure. Increase ventilation. As a water based product, if spilt on electrical equipment the product will cause short-circuits. If possible contain the spill. Place inert absorbent material onto spillage. Collect |
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the material and place into a suitable labelled container. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.

## SECTION 7 – HANDLING AND STORAGE

|                 |   |
|-----------------|---|
| <b>Handling</b> | Avoid skin or eye contact with concentrate. Wear protective clothing when risk of exposure occurs. 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 soap and water after handling. Work clothes should be laundered. Launder contaminated clothing before re-use. |
| <b>Storage</b>  | Store in a cool, dry, well-ventilated area, out of direct sunlight. Protect from freezing. Store in suitable, labelled containers. Keep containers tightly closed. Store away from incompatible materials. Ensure that storage conditions comply with applicable local and national regulations.  |

## SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

|   |   |
|---|---|
| <b>Exposure Limits</b>  | National Occupational Exposure Limits, as published by National Occupational Health & Safety Commission:<br><b>Time-weighted Average (TWA):</b><br>None established for product.<br><ul style="list-style-type: none"> <li>Phosphoric acid: 1 mg/m<sup>3</sup></li> </ul> <b>Short Term Exposure Limit (STEL):</b><br>None established for product.<br><ul style="list-style-type: none"> <li>Phosphoric acid: 3 mg/m<sup>3</sup></li> </ul>  |
| <b>Ventilation</b>  | Use with adequate ventilation.  |
| <b>Personal Protective Equipment</b>  | Use good occupational work practice. The use of protective clothing and equipment depends upon the degree and nature of exposure. The following protective equipment should be available;   |
| <b>Eye Protection</b><br>  | Safety glasses with full face shield should be used for handling concentrate in quantity, cleaning up spills, decanting, etc. Eye protection devices should conform to relevant regulations. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.   |
| <b>Hand Protection</b><br> | Wear gloves of impervious material such as butyl rubber, natural latex, neoprene, PVC and nitrile – to handle in quantity, clean up spills, decanting, etc. Final choice of appropriate gloves will vary according to individual circumstances. i.e. methods of handling or according to risk assessments undertaken. Occupational protective gloves should conform to relevant regulations. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.  |
| <b>Body Protection</b><br> | Suitable protective workwear, e.g. rubber or plastic apron, sleeves, boots and cotton overalls buttoned at neck and wrist are recommended. Chemical resistant apron is recommended where large quantities are handled.  |
| <b>Respirator</b>   | Generally not required for typical applications with diluted solutions as per label directions with adequate ventilation.<br>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). |



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## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

|                                  |                             |                   |                     |
|----------------------------------|-----------------------------|-------------------|---------------------|
| Physical State                   | Non-viscous liquid          | Colour            | Yellow              |
| Odour                            | Characteristic odour        | Specific Gravity  | 1.08 – 1.12 @ 25 °C |
| Boiling Point                    | Approximately 100 °C        | Freezing Point    | Approximately 0 °C  |
| Vapour Pressure                  | Not available               | Vapour Density    | Not available       |
| Flash Point                      | Not flammable               | Flammable Limits  | none                |
| Water Solubility                 | Miscible in all proportions | pH                | <1.5 neat           |
| Volatile Organic Compounds (VOC) | 0 % v/v                     | Per Cent Volatile | Ca 85 % v/v         |
| Viscosity                        | Not available               | Odour Threshold   | Not available       |

## SECTION 10 – STABILITY AND REACTIVITY

|                         |   |
|-------------------------|---|
| Reactivity              | Stable at normal temperatures and pressure.                                       |
| Conditions to Avoid     | Extremes of temperature and direct sunlight.                                      |
| Incompatibilities       | Reducing agents, oxidizing agents, alkalis.                                       |
| Hazardous Decomposition | Thermal decomposition may result in the release of toxic and/or irritating fumes. |

## SECTION 11 – TOXICOLOGICAL INFORMATION

### POTENTIAL HEALTH EFFECTS

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:

|                           |   |
|---------------------------|---|
| Inhalation                | Aerosols of this product containing acid are irritant to the respiratory system.  |
| Skin contact              | Properly diluted solutions not expected to be irritating to skin. Prolonged contact with concentrate may be irritating to skin. The symptoms may include redness, itching and swelling. |
| Eye contact               | Concentrated product causes eye irritation. Eye contact with concentrate will cause stinging, blurring, tearing. Contact with concentrated product may cause serious eye damage.        |
| Ingestion                 | Ingestion of this product may irritate the gastric tract causing nausea and vomiting.   |
| Chronic exposure          | No known effects.   |
| Toxicology Information    | Not toxic, based on ingredients. Oral LD50 (ATE calculated) : >8000 mg/kg   |
| 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.  |
| Respiratory sensitisation | Not expected to be a respiratory sensitizer.  |
| Skin Sensitisation        | Not expected to be a skin sensitizer.   |
| Germ cell mutagenicity    | Not considered to be a mutagenic hazard.  |
| Reproductive Toxicity     | Not considered to be toxic to reproduction.   |
| STOT-single exposure      | Not expected to cause toxicity to a specific target organ.  |
| STOT-repeated exposure    | Not expected to cause toxicity to a specific target organ.  |
| Aspiration Hazard         | Not expected to be an aspiration hazard.  |

## SECTION 12 – ECOLOGICAL INFORMATION

|                                |   |
|--------------------------------|---|
| Eco-toxicity Product (as sold) | Not harmful to aquatic life. LC50 > 100mg/L.<br>Acute Aquatic Toxicity (Calculated) LC50: 750 mg/L.<br>Acute Aquatic Toxicity NOT HAZARDOUS |
|--------------------------------|---|



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|   |  |
|---|--|
| <b>Eco-toxicity Product (at use dilution 1:100 rinse)</b> | Not harmful to aquatic life. LC50 > 100mg/L.<br>Acute Aquatic Toxicity (Calculated) LC50: 75,000 mg/L.<br>Acute Aquatic Toxicity NOT HAZARDOUS |
| <b>Persistence and degradability</b>                      | Biodegradable, based on ingredients.   |
| <b>Bio accumulative potential</b>                         | No bioaccumulation is expected.  |
| <b>Mobility in soil</b>                                   | Due to its physico-chemical characteristics, highly mobile in the environment and will partition to the aquatic compartment.                   |
| <b>Other adverse effects</b>                              | Not available  |
| <b>Environmental Protection</b>                           | Do not discharge this material into waterways.   |

## SECTION 13 – DISPOSAL CONSIDERATIONS

|  |   |
|--|---|
|  | Dispose of waste according to applicable local and national regulations. Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Wastes including emptied containers are controlled wastes and should be disposed of in accordance with all applicable local and national regulations. |
|--|---|

## SECTION 14 – TRANSPORT INFORMATION

|                              |                                    |
|------------------------------|------------------------------------|
| <b>Labels Required</b>       |                                    |
| <b>ADG</b>                   | Not classified as Dangerous Goods. |
| <b>IMDG Marine Pollutant</b> | No                                 |
| <b>HAZCHEM</b>               | None allocated.                    |
| <b>Land Transport (ADG)</b>  |                                    |
| <b>UN Number</b>             | None allocated.                    |
| <b>ADG Code</b>              | None allocated.                    |
| <b>HAZCHEM Code</b>          | None allocated.                    |
| <b>Special Provisions</b>    | None allocated.                    |
| <b>Packing Group</b>         | None allocated.                    |
| <b>Packaging Method</b>      | None allocated.                    |
| <b>Segregation</b>           | None allocated.                    |

## SECTION 15 – REGULATORY INFORMATION

|                           |  |
|---------------------------|--|
| <b>GHS Classification</b> | Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia. |
| <b>SUSMP</b>              | S5 (PHOSPHORIC ACID)   |
| <b>ADG Code</b>           | Not DG   |
| <b>AICS</b>               | All ingredients present on AICS.   |

## SECTION 16 – OTHER INFORMATION

|                                   |   |
|-----------------------------------|---|
| <b>Issue Date</b>                 | 16 <sup>th</sup> August 2021  |
| <b>Version Number</b>             | V 3.0 GHS7 CLASSIFICATION.  |
| <b>Abbreviations and acronyms</b> | <b>ADG Code:</b> Australian Code for the Transport of Dangerous Goods by Road and Rail.<br><b>AICS:</b> Australian Inventory of Chemical Substances.<br><b>CAS Number:</b> Chemical Abstracts Service Registry Number.<br><b>GHS:</b> Globally Harmonized System of Classification and Labelling of Chemicals<br><b>HAZCHEM:</b> An emergency action code of numbers and letters which gives information to emergency |



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|                              |   |
|------------------------------|---|
|                              | <p>services.</p> <p><b>HCIS:</b> Hazardous Chemical Information System</p> <p><b>IARC:</b> International Agency for Research on Cancer.</p> <p><b>NOHSC:</b> National Occupational Health and Safety Commission.</p> <p><b>NTP:</b> National Toxicology Program (USA).</p> <p><b>SDS:</b> Safety Data Sheet</p> <p><b>STEL:</b> Short Term Exposure Limit.</p> <p><b>SUSMP:</b> Standard for the Uniform Scheduling of Medicines and Poisons.</p> <p><b>TWA:</b> Time Weighted Average.</p> <p><b>UN Number:</b> United Nations Number.</p>   |
| <b>Literature references</b> | <p>Preparation of Safety Data Sheets for Hazardous Chemicals – Code of Practice ( Safe Work Australia)</p> <p>GHS Hazardous Chemical Information List (Safe Work Australia)</p> <p>Guidance on the Classification of Hazardous Chemicals under the WHS Regulations.</p> <p>Global Harmonized System of Classification and Labelling of Chemicals (GHS)</p> <p>“Australian Exposure Standards”. Safework Australia</p> <p>Australian Code For The Transport Of Dangerous Goods By Road And Rail</p> <p>Standard for the Uniform Scheduling of Medicines and Poisons</p> <p>Material Safety Data Sheets – individual raw materials – Suppliers</p> <p>HSIS – Hazardous Substance Information System – National Safe Work Australia Data Base.</p> <p>HCIS – Hazardous Chemical Information System – National Safe Work Australia Data Base.</p> <p>ECHA – European Chemicals Agency</p> |
| <b>Disclaimer</b>            | <p>This MSDS 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 MSDS 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.</p>   |

**End of SDS**