

# SAFETY DATA SHEET (SDS)




Cleanawerx Australia Pty Ltd

Product: CFS CLEAN FLUSH  
SOAK DESCALER **READY TO USE**

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

Supplier	<i>Cleanawerx Australia Pty Ltd</i>		
Address	P.O. Box 599 Paradise Point QLD 4216		
Trade name	<b>CFS CLEAN FLUSH SOAK DESCALER</b> <b>READY TO USE</b>		
Telephone	0449 266 673	Email:	info@cleanawerx.com.au
Ah emergency telephone	13 11 26 in Australia	ABN:	501 912 712 84
Substance	Water based liquid	Product Use:	Descaler
Creation date	October 2018	Revision Date:	October 2023
Product code	NA		

## SECTION 2 – HAZARDS IDENTIFICATION

Classification of the substance or mixture	
Poisons Schedule	S5 (PHOSPHORIC ACID)
Dangerous Goods	Not classified as Dangerous Goods
GHS Classification	<ul style="list-style-type: none"><li>Serious Eye Damage/Irritation Category 1</li><li>Skin Irritation Category 2</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	

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<b>P102</b>	Keep out of reach of children.
<b>P103</b>	Read label before use.
<b>Precautionary statement(s): Prevention</b>	
<b>P280</b>	Wear eye protection/face protection and protective gloves.
<b>P264</b>	Wash hands thoroughly after handling.
<b>Precautionary statement(s): Response</b>	
<b>P305+P351+P338</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
<b>P310</b>	Immediately call a POISON CENTER or doctor/physician.
<b>P302 + P352</b>	IF ON SKIN: Wash with plenty of soap and water.
<b>P332 + P313</b>	If skin irritation occurs: Get medical advice/attention.
<b>P362</b>	Take off contaminated clothing and wash before reuse.
<b>P321</b>	Specific treatment (see First Aid Measures on Safety Data Sheet).
<b>Precautionary statement(s): Storage</b>	
	None allocated
<b>Precautionary statement(s): Disposal</b>	
	None allocated
<b>Note</b>	
<b>IMPORTANT</b>	<p>This SDS and the Hazard Classifications contained therein, only apply to the product in its concentrated form, as supplied.</p> <p>When diluted to 1:20 or greater they no longer apply.</p> <p>However, good hygiene and housekeeping practices should be adhered to.</p>

## SECTION 3 – COMPOSITION AND INFORMATION ON INGREDIENTS

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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) , 4th edition United Nations 2011. 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).

## 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.
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<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>	<p>Minor spills do not normally need any special clean-up measures – rinse with water.</p> <p>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 the material and place into a suitable labelled container. Neutralise any residues with SODIUM CARBONATE or SODIUM BICARBONATE. 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.</p>
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## 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.




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## SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

<b>Exposure Limits</b>	<p>National Occupational Exposure Limits, as published by National Occupational Health &amp; Safety Commission:</p> <p><b>Time-weighted Average (TWA):</b></p> <p>None established for product.</p> <ul style="list-style-type: none"> <li>• Phosphoric acid: 1 mg/m<sup>3</sup></li> </ul> <p><b>Short Term Exposure Limit (STEL):</b></p> <p>None established for product.</p> <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> 	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> 	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> 	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.

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<b>Respirator</b>	<p>Generally not required for typical applications with diluted solutions as per label directions. Not required for normal cleaning operations with adequate ventilation.</p> <p>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).</p>
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## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Non-viscous liquid	<b>Colour</b>	Red
<b>Odour</b>	Characteristic odour	<b>Specific Gravity</b>	1.08 – 1.12 @ 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>	<1.5 neat
<b>Volatile Organic Compounds (VOC)</b>	0 % v/v	<b>Per Cent Volatile</b>	Ca 85 % v/v
<b>Viscosity</b>	Not available	<b>Odour Threshold</b>	Not available
<b>Physical State</b>	Non-viscous liquid	<b>Colour</b>	Red
<b>Odour</b>	Characteristic odour	<b>Specific Gravity</b>	1.08 – 1.12 @ 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>	<1.5 neat

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## SECTION 10 – STABILITY AND REACTIVITY

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

## 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:	
<b>Inhalation</b>	Not considered to be an inhalation hazard. No vapour or mist generally associated with liquid form of the product – water based. However, generated aerosols of this product containing acid are irritant to the respiratory system.
<b>Skin contact</b>	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.
<b>Eye contact</b>	Concentrated product causes eye irritation. Eye contact with concentrate will cause stinging, blurring, tearing. Contact with concentrated product may cause serious eye damage.
<b>Ingestion</b>	Ingestion of this product may irritate the gastric tract causing nausea and vomiting.
<b>Chronic exposure</b>	No known effects.
<b>Toxicology Information</b>	Not toxic, based on ingredients. Oral LD50 (calculated) : >5000 mg/kg

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<b>Carcinogen Status</b>	
<b>NOHSC</b>	No significant ingredient is classified as carcinogenic by NOHSC.
<b>NTP</b>	No significant ingredient is classified as carcinogenic by NTP.
<b>IARC</b>	No significant ingredient is classified as carcinogenic by IARC.
<b>Respiratory sensitisation</b>	Not expected to be a respiratory sensitizer.
<b>Skin Sensitisation</b>	Not expected to be a skin sensitizer.
<b>Germ cell mutagenicity</b>	Not considered to be a mutagenic hazard.
<b>Reproductive Toxicity</b>	Not considered to be toxic to reproduction.
<b>STOT-single exposure</b>	Not expected to cause toxicity to a specific target organ.
<b>STOT-repeated exposure</b>	Not expected to cause toxicity to a specific target organ.
<b>Aspiration Hazard</b>	Not expected to be an aspiration hazard.

## SECTION 12 – ECOLOGICAL INFORMATION

Eco-toxicity Product (as sold)	<p>Not harmful to aquatic life. LC50 &gt; 100mg/L.</p> <p>Acute Aquatic Toxicity (Calculated) LC50: 720 - 735 mg/L.</p> <p>Acute Aquatic Toxicity NOT HAZARDOUS.</p> <p>This material is not persistent in aquatic systems, but its low pH when undiluted or un-neutralized is acutely harmful to aquatic life.</p>
Eco-toxicity Product (at use dilution 1:100 rinse)	<p>Not harmful to aquatic life. LC50 &gt; 100mg/L.</p> <p>Acute Aquatic Toxicity (Calculated) LC50: 72,000 – 73,500 mg/L.</p> <p>Acute Aquatic Toxicity NOT HAZARDOUS.</p> <p>This material is not persistent in aquatic systems, but its low pH when undiluted or un-neutralized is acutely harmful to aquatic life.</p>
Persistence and	Biodegradable, based on ingredients.



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degradability	
Bio accumulative potential	No bioaccumulation is expected.
Mobility in soil	Due to its physico-chemical characteristics, highly mobile in the environment and will partition to the aquatic compartment.
Other adverse effects	Not available
Environmental Protection	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

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



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### 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>	8 <sup>th</sup> October 2018
<b>Version Number</b>	V #1.0 Initial GHS CLASSIFICATION.
<b>Abbreviations and acronyms</b>	<p><b>ADG Code:</b> Australian Code for the Transport of Dangerous Goods by Road and Rail.</p> <p><b>AICS:</b> Australian Inventory of Chemical Substances.</p> <p><b>CAS Number:</b> Chemical Abstracts Service Registry Number.</p> <p><b>GHS:</b> Globally Harmonized System of Classification and Labelling of Chemicals</p> <p><b>HAZCHEM:</b> An emergency action code of numbers and letters which gives information to emergency services.</p> <p><b>HSIS:</b> Hazardous Substances 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>

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	<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>
<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**