

SAFETY DATA SHEET (SDS)



Cleanawerx Australia Pty Ltd

Product: DRIFT-OFF HULL & DECK ACID WASH

SECTION 1 – STATEMENT OF CHEMICAL PRODUCT AND COMPANY IDENTIFICATION


Supplier	Cleanawerx Australia Pty Ltd		
Address	P.O. Box 599 Paradise Point QLD 4216		
Trade name	DRIFT OFF HULL & DECK ACID WASH		
Telephone	0449 266 673	Email:	info@cleanawerx.com.au
Emergency telephone	13 11 26 in Australia	ABN:	501 912 712 84
Substance	Water Based	Product Use:	Acid Wash
Creation date	APRIL 2016	Revision Date:	APRIL 2021
Product code	CWDO		

SECTION 2 – HAZARDS IDENTIFICATION

Classification of the substance or mixture

Poisons Schedule	S6
GHS Classification	Serious Eye Damage/Irritation Category 1 Skin Corrosion/Irritation Category 1B Corrosive to Metals Category 1

Label elements

GHS label pictograms	 GHS05
Signal word	DANGER

Hazard statement(s)

H314	Causes severe skin burns and eye damage.
H319	Causes serious eye irritation.
H290	May be corrosive to metals.

Precautionary statement(s): General

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.

Precautionary statement(s): Prevention

P234	Keep only in original container.
P260	Do not breathe mists.
P264	Wash hands/skin thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

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Precautionary statement(s): Response	
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.
P363	Wash contaminated clothing before reuse.
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.
P321	Specific treatment (see First Aid Measures on Safety Data Sheet).
Precautionary statement(s): Storage	
P405	Store locked up.
Precautionary statement(s): Disposal	
P501	Dispose of contents/ container in accordance with local regulations.
Note	
IMPORTANT	This SDS and the Hazard Classifications contained therein, only apply to the product in its concentrated form, as supplied. When diluted to 1:5 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	30 - 60 % w/w
Propylene glycol monomethyl ether	107-98-2	<10 % w/w
Non-Hazardous ingredients	Mixture	>60%

SECTION 4 – FIRST AID MEASURES

Eye Contact	If this product comes in contact with eyes: <ul style="list-style-type: none"> Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention.
Skin contact	If skin contact occurs: <ul style="list-style-type: none"> Remove / take off immediately all contaminated clothing Rinse skin with water/shower. Wash contaminated clothing before reuse. If symptoms persist, seek medical attention.
Inhalation	<ul style="list-style-type: none"> Remove victim to fresh air and keep at rest in a position comfortable for breathing

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	<ul style="list-style-type: none">• If respiratory symptoms: Immediately call POISON CENTER or doctor.• Treat symptomatically.
Ingestion	<ul style="list-style-type: none">• Rinse mouth.• Do NOT induce vomiting.
Symptoms caused by exposure	
	<ul style="list-style-type: none">• Causes severe skin burns and eye damage.
Medical attention and special treatment	
	Treat symptomatically

SECTION 5 – FIRE FIGHTING MEASURES

Suitable extinguishing equipment / media	
	<ul style="list-style-type: none">• Use an extinguishing media suitable for surrounding fires.• Water spray or fog.• Foam.• Dry Chemical Powder• BCF (where allowed)• Carbon dioxide
Special hazards arising from the chemical	
Fire incompatibility	No known incompatibility.
Special protective equipment and precautions for fire fighters	
Fire Fighting	<ul style="list-style-type: none">• Alert Fire Brigade and tell them the location and the nature of the hazard.• Wear full body protective clothing with breathing apparatus.• Prevent spillage from entering drains or watercourse.• Keep away from hot containers.• Cool hot containers with water spray.
Fire/Explosion Hazard	<ul style="list-style-type: none">• Non-combustible• Not considered to be a considerable fire risk.• Containers may explode on heating.• May emit acid smoke.• May emit corrosive fumes.• Decomposition may product toxic fumes of decomposition.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	
Minor spills	<ul style="list-style-type: none">• Clean up spills immediately.• Avoid contact with skin and eyes.• Use Personal Protective Equipment.

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	<ul style="list-style-type: none"> • Contain and absorb spill with vermiculite or other suitable material. • Sweep or wipe up. • Place in a suitable container for disposal.
Major spills	<ul style="list-style-type: none"> • Clear area of personnel. • Use Personal Protective Equipment • Prevent spill from entering drains or watercourse. • If contamination occurs contact emergency services. • Contain and absorb spill with vermiculite or other suitable material. • Label collected material for disposal. • Decontaminate if necessary (see section 13). • Launder and clean all protective equipment prior to being re-used.
Environmental precautions	
	<ul style="list-style-type: none"> • Use appropriate containment to avoid environmental contamination. • Prevent from spreading and entering waterway using sand, earth or other appropriate barriers. • DO NOT DISCHARGE BULK QUANTITIES INTO DRAINS, WATERWAYS, SEWER OR ENVIRONMENT. • Inform local authorities if this occurs.
Methods and materials for containment and cleaning up	
	Personal protective equipment advice is contained in Section 8 of the SDS

SECTION 7 – HANDLING AND STORAGE

Precautions for safe handling	
Safe handling	<ul style="list-style-type: none"> • Wear prescribed protective clothing. • Do NOT eat, drink or smoke when handling. • Wash hands after use. • Keep containers closed tightly when not in use. • Store in accordance to manufacturers instructions.
Other information	<ul style="list-style-type: none"> • Store in original containers. • Store in a cool, dry, well ventilated area out of direct sunlight.
Conditions for safe storage, including any incompatibilities	
Suitable container	<ul style="list-style-type: none"> • Not to be transported in unlined metal drums. • Lined metal can, lined metal pail/can. • Plastic pail. • Polyliner drum. • Packaging as recommended by manufacturer.
Storage incompatibility	<ul style="list-style-type: none"> • No known incompatibilities.

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SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control parameters

Occupational Exposure Limits (OEL)

See Ingredients Data and Emergency Limits below.

Ingredients data

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australian Exposure Standards	Phosphoric acid	Phosphoric acid: 1 mg/m3	Phosphoric acid: 3 mg/m3	Phosphoric acid: 3 mg/m3	not available	not available
Australian Exposure Standards	Propylene glycol monomethyl ether	Propylene glycol monomethyl ether	100ppm, 369 mg/m3	150 ppm, 553 mg/m3	not available	not available


Emergency limits

Ingredient	TEEL-0	TEEL-1	TEEL-2	TEEL-3
Not available				

IDLH data

Ingredient	Original IDLH	Revised IDLH
Not available	Not available	Not available

Exposure controls

Appropriate engineering controls	<ul style="list-style-type: none"> • Use in a well ventilated area. • General exhaust is adequate under normal operating conditions.
Personal protection	 <ul style="list-style-type: none"> • Use good occupational work practice. • The use of protective clothing and equipment depends upon the degree and nature of exposure.
Eye and face protection	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • See hand protection below
Hand protection	<ul style="list-style-type: none"> • Wear chemical protective gloves, e.g. PVC for applications with the concentrated

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	product in quantity, cleaning up spills, decanting, or extended contact.
Body protection	<ul style="list-style-type: none"> Wear safety footwear. Work clothes.
Respiratory protection	<ul style="list-style-type: none"> If determined by a risk assessment an inhalation risk exists, wear a suitable mist respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.
Other protection	<ul style="list-style-type: none"> Ensure there is access to eye washes and safety showers.
Thermal hazards	<ul style="list-style-type: none"> Not Available

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid		
Odour	Fragrant	Partition coefficient n-octanol/water	Not available
Odour threshold	Not applicable	Auto-ignition temperature (°C)	Not flammable
pH (as supplied)	<1 neat	Decomposition temperature	Not available
Melting Point / Freezing Point (°C)	Approximately 0 °C	Viscosity (cSt)	Not available
Initial boiling point and boiling range (°C)	Approximately 100 °C	Molecular weight (g/mol)	Not available
Flash point (°C)	not flammable	Taste	Not available
Evaporation rate	not available	Explosive properties	none
Flammability	non flammable liquid	Oxidising properties	Not available
Upper Explosive Limit (%)	none	Surface Tension (dyn/cm or mN/m)	Not available
Lower Explosive Limit (%)	none	Volatile Component (%vol)	Approx. 90% v/v
Vapour pressure (kPa)	Not available	Gas group	Not applicable
Solubility in water (g/L)	Miscible in all proportions	pH as a solution (1%)	<2
Vapour density (Air=1)	Not determined	Volatile organic compounds (VOC)	2%

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SECTION 10 – STABILITY AND REACTIVITY

Reactivity	Stable at normal temperatures and pressure.
Chemical stability	Stable at normal temperatures and pressure.
Possibility of hazardous reactions	ALKALI: violent reaction can occur, yielding heat and pressure, which can burst an enclosed container. Attacks many reactive metals (aluminium/magnesium/zinc alloys) releasing highly flammable gas (hydrogen), which generates fire or explosion hazards. Reacts with chlorine products and a toxic chlorine gas may be liberated.
Conditions to avoid	No special requirements.
Incompatible materials	Reducing agents. Oxidizing agents.
Hazardous decomposition products	Upon burning, may emit fumes.

SECTION 11 – TOXICOLOGICAL INFORMATION

Information on toxicological effects

Inhaled	Inhalation of mists or aerosols can produce mucous membrane and respiratory irritation. Exposure to high concentrations of the product in liquid form or as a mist may lead to possible harmful corrosive effects including lesions of the nasal septum, pulmonary oedema, pneumonitis and emphysema.
Ingestion	Swallowing can result in nausea, vomiting of blood and eroded tissue; chemical burns of the mouth, throat & abdomen; perforation of the gastrointestinal tract.
Skin contact	Corrosive to skin - may cause skin burns, severe irritation. Corrosion will continue until removed. Severity depends on the concentration and duration of exposure. Burns are not immediately painful; onset of pain may be minutes to hours.
Eyes	Corrosive to eyes; contact can cause corneal burns. Permanent eye damage, including loss of sight, may occur. High concentrations of vapours will cause irritation.
Chronic	Prolonged and repeated skin contact with diluted solutions may induce eczematoid dermatitis. Development of a defatting dermatitis on prolonged contact has been reported.

Individual constituents

Propylene glycol monomethyl ether

Acute Toxicity	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.	Carcinogenicity	Not listed as a carcinogen NTP, IARC, OSHA, EPA.
Skin Irritation/Corrosion	Not a skin sensitizer or skin irritant, and only slightly irritating to the eye.	Reproductivity	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,

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Serious Eye Damage/Irritation	No	STOT – Single Exposure	respectively. No data available
Respiratory or Skin sensitivity	No	STOT – Repeated Exposure	No data available
Mutagenicity	No data available	Aspiration Hazard	No data available
phosphoric acid			
Acute Toxicity	LD50 (oral rat), 1530mg/kg.	Carcinogenicity	Not listed as a carcinogen NTP, IARC, OSHA, EPA.
Skin Irritation/Corrosion	YES LD50 (dermal, rabbit), 2740 mg/kg. Corrosive to skin. Skin contact will cause redness, itching, irritation, severe pain and chemical burns with resultant tissue destruction.	Reproductivity	No data available
Serious Eye Damage/Irritation	YES, Corrosive to eyes	STOT – Single Exposure	No data available
Respiratory or Skin sensitivity	No	STOT – Repeated Exposure	No data available
Mutagenicity	No data available	Aspiration Hazard	No data available

SECTION 12 – ECOLOGICAL INFORMATION

Toxicity

PHOS CLEAN Acute Aquatic Toxicity – not hazardous. LC50 (calculated) = 235 – 320 mg/L.

Ingredients:

Phosphoric acid Fish: Mosquito Fish: LC50 = 138 mg/L; 96 Hr;

Propylene glycol monomethyl ether LC50 500mg/L (fish)

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
Propylene glycol monomethyl ether	Readily biodegradable	Not Available
Phosphoric acid	No data available.	No data available.

Bioaccumulative potential

Ingredient	Bioaccumulation
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Propylene glycol monomethyl ether	No bioaccumulation is expected.
Mobility in soil	
Ingredient	Mobility
Propylene glycol monomethyl ether	Potential for mobility in soils is high (Koc between 0 and 50).

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste treatment methods	
Product and Packaging Disposal	Recycle wherever possible or consult manufacturer for recycling options. Consult state land waste authority for disposal. Bury or incinerate residue at the approved site. Recycle containers if possible, or dispose of in an authorised landfill.

SECTION 14 – TRANSPORT INFORMATION

Labels Required	
Transport pictogram	
Marine Pollutant	None Allocated
HAZCHEM	2R
Land Transport (ADG)	
UN Number	1805
Packing Group	III
UN Proper shipping name or Technical name	PHOSPHORIC ACID, SOLUTION
Environmental hazard	No relevant data
Transport hazard class(es)	8
Special Precautions for user	None Allocated



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	None Allocated
Additional information	Not Available

SECTION 15 – REGULATORY INFORMATION

Health, safety and environment regulations

Poisons Schedule	S6 (PHOSPHORIC ACID >35%)
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SECTION 16 – OTHER INFORMATION

Issue Date	8 th September 2017
Version Number	2.0 – GHS classification.
Abbreviations and acronyms	<ul style="list-style-type: none">• ADG Code: Australian Code for the Transport of Dangerous Goods by Road and Rail.• AICS: Australian Inventory of Chemical Substances.• CAS Number: Chemical Abstracts Service Registry Number.• GHS: Globally Harmonized System of Classification and Labelling of Chemicals• HAZCHEM: An emergency action code of numbers and letters which gives information to emergency services.• HSIS: Hazardous Substances Information System• IARC: International Agency for Research on Cancer.• NOHSC: National Occupational Health and Safety Commission.• NTP: National Toxicology Program (USA).• SDS: Safety Data Sheet• STEL: Short Term Exposure Limit.• SUSMP: Standard for the Uniform Scheduling of Medicines and Poisons.• TWA: Time Weighted Average.• UN Number: United Nations Number.
Literature references	<ul style="list-style-type: none">• Preparation of Safety Data Sheets for Hazardous Chemicals – Code of Practice (December 2011 – Safe Work Australia)• GHS Hazardous Chemical Information List (September 2014 – Safe Work Australia)• Guidance on the Classification of Hazardous Chemicals under the WHS Regulations. April 2012. Safe Work Australia.• Global Harmonized System of Classification and Labelling of Chemicals (GHS). Fifth revised edition.• “Australian Exposure Standards”• List of Designated Hazardous Substances [NOHSC:10005(1999)]• Australian Code For The Transport Of Dangerous Goods By Road And Rail – 7th Edition.• Standard for the Uniform Scheduling of Medicines and Poisons 2015.• Material Safety Data Sheets – individual raw materials – Suppliers.• Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(1999)]

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	<ul style="list-style-type: none">• HSIS – Hazardous Substance Information System – National Worksafe Data Base.• LABELLING OF WORKPLACE HAZARDOUS CHEMICALS, Code of Practice, DEC 2011• IMPLEMENTATION OF THE GLOBALLY HARMONISED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS) APRIL 2012
Risk assessments	This SDS is a tool to communicate hazards which can assist you in creating relevant risk assessments for your workplace. There are many variables in determining whether a particular hazard is a risk in your workplace. Keep in mind this may be influenced by such things as the amount used, frequency of use, engineering controls, effectiveness of safety training and many more considerations.
Disclaimer	Safety Data Sheets are updated frequently. Please ensure that you have a current copy. This SDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact XO2 Pty Ltd. Our responsibility for products sold are subject to our standard terms and conditions. Where health or safety data given discloses a risk to the user or environment, it is the responsibility of the Purchaser to pass on that information to employees or those who may be using the product, ensuring that adequate safety procedures are used including good industrial hygiene.
Copyright	This document is copyright.

End of SDS