

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: Dishwash Machine Descaler

Recommended Use: Descaling Dish washers. Fill dishwasher with cold water manually. Add ½ cup of acid. Put on wash cycle only. Do not go to rinse until scale has come off. Put on rinse cycle and add 1 table spoon of dishwash powder.

Supplier: Midland Chemicals
ABN: 91 622 018 986

Street Address: 18 Elliott Street
Midvale
Western Australia

Telephone Number: +61 08 9274 1992

Facsimile: +61 08 9250 1710

Emergency Telephone: **1 800 033 111 (ALL HOURS)**

2. HAZARDS IDENTIFICATION

Hazardous according to the criteria of ASCC [NOHSC:1008(2004)]

Road and Rail; Dangerous Goods according to the criteria of the Australian Dangerous Goods Code (ADG Code).

Risk Phrases: R34: causes burns.
R36: Irritating to eyes.
R37: Irritating to respiratory system.
R38: Irritating to skin.

Safety Phrases: S2: Keep out of reach of children.
S3: Keep in a cool place.
S13: Keep away from food, drink and animal foodstuffs.
S14: Keep away from acids, and ammonium salts and other Class 8 corrosive substances.
S23: Do not breathe gas/fumes/vapour/spray
S24/25: Avoid contact with skin and eyes
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S27/28: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.
S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.
S45: In case of accident or if you feel unwell seek medical advice immediately (show label where possible)
S46: If swallowed, seek medical advice immediately and show this container or label.

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Packaging group number: III

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Proportion	Risk Phrases
Phosphoric Acid	7664-38-2	10%	R36, R38
Hydrochloric Acid	7647-01-0	<10%	
Water	7732-18-5	Up to 100%	

4. FIRST AID MEASURES

For advice, contact a Poisons Information Centre (e.g. phone Australia 131 126; New Zealand 0800 764 766) or a doctor at once.

Inhalation:

Remove from contaminated area immediately; avoid becoming a casualty. Give plenty of water as tolerated

Skin Contact:

If spilt on skin or hair, immediately drench with running water and remove contaminated clothing. Wash affected area thoroughly with water.

Eye Contact:

Immediately wash in and around the eye area with large amounts of water for at least 15 minutes. Eyelids to be held apart. Remove clothing if contaminated and wash skin. Seek immediate medical attention.

Ingestion:

Immediately rinse mouth with water. If swallowed, do NOT induce vomiting. Give glass of water, Never give anything by mouth to an unconscious person. If vomiting occurs give further water. Seek immediate medical assistance. Contact a doctor or the Poisons Information Centre.

Medical attention and special treatment:

Treat symptomatically.

5. FIRE FIGHTING MEASURES

Hazards from combustion products:

Non combustible product. Can emit toxic fumes upon heating. Wear protective breathing apparatus.

Precautions for fire fighters and special protective equipment:

Fire fighters to wear a positive-pressure self-contained breathing apparatus and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots and gloves). Clear fire of all non-emergency personnel. Stay up wind. Keep out of low areas. Eliminate ignition source.

Suitable Extinguishing Media:

Use extinguishing media appropriate to surrounding fire conditions. Remove containers not involved in the fire from vicinity.

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6. ACCIDENTAL RELEASE MEASURES

Emergency procedures:

Clear area of all unprotected personnel. Personnel involved in the clean up should wear full protective clothing as described in section 8. Eliminate all sources of ignition. Increase ventilation. Stop leak if safe to do so. Isolate the danger area. Do not let product reach drains or waterways. If product enters sewers or waterways advise local emergency services, or Environmental Protection Authority.

Methods and materials for containment and clean up:

Wear protective equipment to prevent skin and eye contact. Corrosive liquid. Oxidizing material. Stop leak if without risk. Dilute spills with water and neutralise with Soda Ash.

7. HANDLING AND STORAGE

This material must be stored, maintained and used in accordance with the relevant regulations.

Conditions for safe storage:

Keep container tightly closed. Keep container in a cool, well-ventilated area. Separate from acids, alkalis, reducing agents and combustibles.

Precautions for safe handling:

Avoid skin and eye contact and breathing in vapour, mists and aerosols. Keep container dry. Keep away from heat. Keep away from sources of ignition. Keep away from combustible material. Do not ingest. Do not breathe gas/fumes/ vapour/spray. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as reducing agents, combustible materials, organic materials, metals, acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:

Peak limitation = 7mg/m^3 (5ppm)

Engineering controls:

Use in well ventilated areas.

Personal Protective Equipment:

Wear full protective clothing, boots, safety goggles, gloves, and a self contained breathing apparatus. Before breaks and at end of work, wash hands and face thoroughly.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid

Colour: Colourless to yellow

Solubility: miscible in water

Specific Gravity: 1.16 approx.

Relative Vapour Density (air=1): N/A

Vapour Pressure (20 °C): N/A

Flash Point (°C): N/A

Flammability Limits (%): N/A

Auto Ignition Temperature (°C): N/A

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Boiling Point/Range (°C): N/A
pH: 2 @ 1% solution

10. STABILITY AND REACTIVITY

Chemical stability:	Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure. Can emit toxic fumes upon heating.
Conditions to avoid:	Store in a cool dry place away from Alkaline products and other chemicals.
Incompatible materials:	Incompatible with Alkaline products and other chemicals.
Hazardous decomposition products:	Nature of decomposition products is not known. Releases toxic gases upon heating.
Hazardous reactions:	Heat causes the product to emit toxic fumes.

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:

Ingestion:	Acute irritation of upper respiratory tract.
Eye contact:	Severe irritation and burns.
Skin contact:	Severe irritation and burns.
Inhalation:	Acute irritation of nasal and throat areas and irritation to upper respiratory tract.
Long Term Effects:	No information available for the product.
Toxicological Data:	This product has high toxicity and is irritant if it comes in contact with skin, eyes and mucous membranes or is swallowed or inhaled.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Do not contaminate waterways.
Persistence and degradability	possible short term degradation products are not likely. However, long term degradation products may arise.

13. DISPOSAL CONSIDERATIONS

Disposal methods:	Dispose of in accordance with all local, state and federal regulations. All empty packaging should be disposed of in accordance with Local, State, and Federal Regulations or recycled/reconditioned at an approved facility.
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14. TRANSPORT INFORMATION

Road and Rail Transport

classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; DANGEROUS GOODS.

UN No: 1760

Class-Primary: 8 corrossive

Packing Group: III

Proper Shipping Name: Phosphoric Acid and Hydrochloric Acid

Hazchem Code: 2R

Marine Transport

classified as Non- Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; DANGEROUS GOODS.

UN No: 1760

Class-Primary: 8 corrossive

Packing Group: III

Proper Shipping Name: Phosphoric Acid and Hydrochloric Acid

Hazchem Code: 2R

Air Transport

classified as Non-Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; DANGEROUS GOODS.

UN No: 1760

Class-Primary: 8 corrossive

Packing Group: III

Proper Shipping Name: Phosphoric Acid and Hydrochloric Acid

Hazchem Code: 2R

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15. REGULATORY INFORMATION

Classification: Hazardous according to criteria of Safe work Australia; HAZARDOUS SUBSTANCE

Hazard Category: Corrosive

Risk Phrases: R34: causes burns.
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R37: Irritating to respiratory system.
R38: Irritating to skin.

Safety Phrases: S2: Keep out of reach of children.
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16. OTHER INFORMATION

This material safety data sheet has been prepared by Midland Chemicals

This MSDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Midland Chemicals cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material. If clarification or further information is needed, the user should contact Midland Chemicals at the contact details on page 1.

Midland Chemical's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.