

MDA

1: Identification of the Material and Supplier

Product Identifier	MDA		
Other Means of Identification	Phosphoric acid solution		
Recommended Use	Machine Descaling Acid		
Supplier	Organisation	Location	Contact Information
	Chemform Pty Ltd	7 Kirke St	Phone: (08) 9240 7444
	ABN: 50 008 905 119	Balcatta WA 6021	Fax: (08) 9344 4360
		Australia	E-Mail: admin@chemform.com.au
			Web: www.chemform.com.au
Emergency Phone Number	Poisons Information Centre (Australia) 13 11 26		

2: Hazard Identification

Classified as hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) criteria of Safe Work Australia and classified as a dangerous good according to Australian Dangerous Goods Code.

GHS Classification	Skin corrosion (category 1)
Signal Word	Danger
Hazardous Statement(s)	Causes severe skin burns and eye damage.
Precautionary Statement(s)	Wear protective eyewear, gloves and clothing. Wash hands thoroughly after handling. IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF INHALED: Remove victim to fresh air and keep at rest in a comfortable position for breathing. Immediately call a POISON CENTRE or doctor. Store locked up. Dispose of contents in accordance with local regulations.

3: Composition/Information on Ingredients

Ingredient	CAS Number	Proportion (% w/w)
Phosphoric acid	7664-38-2	30-60%
Non-hazardous ingredients	-	to 100%

4: First Aid Measures

General	For advice, contact a Poisons Information Centre (Australia 13 11 26) or a doctor.
Ingestion	If swallowed, DO NOT induce vomiting. If person is conscious, rinse mouth thoroughly with water first then give a glass of water to drink. If vomiting occurs, wash out mouth again with water and give another glass of water to drink. Seek medical attention urgently.
Eyes	If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre (Australia 13 11 26) or by a doctor, or for at least 15 minutes.
Skin	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.
Inhalation	If swallowed or inhaled, remove from contaminated area. Apply artificial respiration if not breathing. Do not give direct mouth-to-mouth resuscitation. To protect rescuer, use air-viva, oxy-viva or one-way mask. Resuscitate in a well-ventilated area.
Symptoms Caused by Exposure (Chronic)	Irritant dermatitis may result from working with this material.
Medical Attention and Special Treatment	Treat symptomatically as for strong acids.

5: Fire Fighting Measures

Suitable Extinguishing Equipment	Material itself is not combustible. Extinguish fire using agent suitable for type of surrounding fire. Use foam, dry chemical or carbon dioxide. May be washed to drain with large quantities of water.
Specific Hazards Arising from the Chemical	When heated to decomposition, toxic and corrosive fumes of gas are emitted.
Special Protective Equipment and Precautions for Fire Fighters	Liquid-tight chemical protective suit with breathing apparatus.
Hazchem Code	2R

6: Accidental Release Measures

Personal Precautions	Keep unnecessary personnel away. Wear protective eyewear, respirator, chemical resistant boots, impervious overalls and gloves.
Environmental Precautions	Seek disposal options by a licensed waste contractor.

Spills and Disposal

Small Spills

Dilute with water, then neutralise with lime or soda ash to a neutral pH. Caution: carbon dioxide gas will be liberated during neutralisation.

Large Spills

Neutralise and contain spill with absorbent material such as soil, sand, attapulgate, vermiculite. Collect and seal in properly labeled plastic drums. Wash area with water. Seek disposal options by a licensed waste contractor.

7: Handling and Storage

Precautions for Safe Handling	Wash hands after use. Minimise direct contact with product. Use PPE as described in section 8.
Conditions for Safe Storage	Always replace lid on container after use. Store in well-ventilated area and preferably outdoors, out of direct sunlight and out of the reach of children.

8: Exposure Controls – Personal Protection

National Exposure Standards	1 mg/m ³ (Time Weighted Average) 3 mg/m ³ (STEL) Phosphoric acid
Engineering Controls	Use in well-ventilated area. Avoid high mist concentrations.
Individual Protection	
Eyes/Face	Mono-goggles.
Hands	Neoprene, nitrile, PVC or rubber gloves. Avoid skin contact.
Skin	Chemical resistant work wear.
Respiratory	Where vapour, or mist is a problem, use an approved respirator.

9: Physical and Chemical Properties

Appearance	Clear liquid
Odour	Nil
pH	1.2 – 1.5
Vapour Pressure	Not applicable
Vapour Density	Not applicable
Flash Point	Not applicable
Flammability Limits	Not applicable
Boiling Point	No data available
Melting Point	No data available
Specific Gravity	1.33 – 1.36
Solubility	Soluble in water

10: Stability and Reactivity

Chemical Stability	The product is stable under normal conditions.
Possibility of Hazardous Reaction	Reacts with oxidising agents and alkaline substances. Reacts with sodium hypochlorite liberating toxic chlorine gas.
Conditions to Avoid	Extreme heat and temperatures.
Incompatible Materials	Store away from strong alkalis, including sodium or calcium hypochlorite (swimming pool chlorine), oxidizing agents, combustible solids, foodstuffs and organic peroxides.
Hazardous Decomposition Products	None known.

11: Toxicological Information

Ingestion	LD50 Rat oral 1530 mg/kg (phosphoric acid). Swallowing can result in nausea, vomiting, diarrhoea, abdominal pain and chemical burns to the gastrointestinal tract.
Eye	Corrosive to eyes. Contact with eyes can result in permanent injury.
Skin	Highly corrosive to skin. Irritant dermatitis may result from working with this material. Produces burns, deep ulceration at the site of contact.
Inhalation	Not considered a risk of normal use. Inhalation of sprays or mists will result in respiratory irritation and possible harmful corrosive effects including lesions of nasal septum, pulmonary oedema, pneumonitis and emphysema.

12: Ecological Information

Ecotoxicity	Fish: Mosquito Fish: LC50 = 138 mg/L; 96 Hr
Persistence/Degradability	Not expected to persist in the soil
Bio-accumulative Potential	Has limited potential to bio-accumulate
Mobility in Soil	Mobile in soil

13: Disposal Considerations

Disposal Methods	Disposal of this product and solutions of the product should at all times comply with requirements of environmental protection and waste disposal legislation as well as requirements by local authorities. Dispose of via licensed waste disposal carriers.
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14: Transport Information

UN Number	1805
Shipping Name	Phosphoric acid solution
Class	8
Subsidiary Risk	Not applicable
Packing Group	III
Special Precautions For Users	Ensure containers are clearly labelled. Keep containers securely sealed and protected against physical damage.
Hazchem Code	2R
IERG Number	37

15: Regulatory Information

Packaging & Labelling	This product is a Scheduled Poison (S6) and must therefore be stored, maintained and used in accordance with the relevant State Poisons Act. Defined as a "Dangerous Good" by the Australian Code for the Transport of Dangerous Goods by Road and Rail.
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16: Other Information

Prepared By	Brett Amos
Date of Previous Issue	February 2014
Changes Made	Updated to comply with WHS regulations (GHS format).
References	Australian Dangerous Goods Code. Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice 2011. Standard for the Uniform Scheduling of Medicines & Poisons (SUSMP). Guidance on the Classification of Hazardous Chemicals Under the WHS Regulations (April 2012).
Contact Person/Point	Australia 24 HOUR EMERGENCY CONTACT Poisons Information Centre 13 11 26
Legal Disclaimer	The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.

END OF SAFETY DATA SHEET