

PRODUCT NAME: **Descaler**

1. IDENTIFICATION OF MATERIAL & SUPPLIER

NAME: Ecowash Solutions Pty Ltd
ADDRESS: 41 Chard Rd, BROOKVALE NSW 2100
PHONE: 02 9938 9444
FAX: 02 9905 7222
EMERGENCY NO: 02 9938 9444
WEBSITE: www.ecowashsolutions.com.au
SYNONYM(S)
USE(S) DESCALING WASH MACHINES & URNS
MSDS DATE: 04 July 2011

2. HAZARDS IDENTIFICATION

Hazardous according to NOHSC criteria.

Dangerous Goods.

Risk Phrases:

R: 34 Causes burns.

Safety Phrases:

S: 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S: 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S: 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

3. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	FORMULA	CAS NO.	CONTENT
Aminotri(methylenephosphonic acid)	NOT AVAILABLE	[6419-19-8]	10 - 30 %
Other ingredients deemed not to be hazardous	NOT AVAILABLE	NOT AVAILABLE	← 10 %
WATER	H2O	[7732-18-5]	to 100 %

4. FIRST AID MEASURES

EYE	If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.
INHALATION	Remove from exposure.
SKIN	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.
INGESTION	If swallowed, do NOT induce vomiting.
ADVICE TO DOCTOR	Product is an aqueous solution of an organic phosphonic acid. Corrosive irritant to living tissue. Risk of serious eye damage. Contact Poisons Information Centre.
FIRST AID FACILITIES	Recommended: Eye wash. Hand wash-basin. Emergency shower if handling industrial quantities.

5. FIRE FIGHTING MEASURES

FLAMMABILITY	Not Flammable
FIRE & EXPLOSION	Not Flammable
EXTINGUISHING	Water fog or fine water spray.
HAZCHEM CODE	2X

6. ACCIDENTAL RELEASE MEASURES

SPILLAGE	<p>Emergency Procedures: Contain. Prevent spillages from entering natural waters.</p> <p>For large spills: Contain spillage using sand or earth. Transfer liquid and solids to suitable container. Treat residues as for small spillage.</p> <p>For small spills: Spills may be neutralised by liberal application of soda ash. If local regulations permit, mop up with plenty of water and run to waste, diluting greatly with running water. Otherwise absorb on inert absorbent, transfer to suitable container and arrange removal by disposals company. Wash site of spillage thoroughly with water and detergent.</p>
-----------------	--

7. STORAGE AND HANDLING

STORAGE	Store in a cool, well-ventilated place, out of reach of children. Large quantities should be stored in a bounded dangerous goods store. Store in original container. Keep container tightly closed and out of direct sunlight. Keep away from alkalis. Protect from physical damage. Clean up all spills and splashes promptly; avoid secondary accidents.
HANDLING	Avoid contact with skin and eyes. Keep away from alkalis.

8. EXPOSURE CONTROLS / PERSONAL EQUIPMENT

EXPOSURE STANDARDS	No Data
BIOLOGICAL LIMIT VALUES	No Data
ENGINEERING CONTROLS	Avoid using mild steel as a material of construction. Ensure adequate ventilation (same as outdoors) when using. If handling industrial quantities or if aerosol risk exists, consider local mechanical exhaust/extraction to keep airborne contamination as low as possible.
PPE	Avoid contact with skin and eyes. Personal protection to be selected from those recommended below, as appropriate to mode of use, quantity handled and degree of hazard:- Eye/face protection, Gloves, rubber or plastic, Plastic apron, sleeves and boots Impervious overalls.

9. PHYSICAL & CHEMICAL PROPERTIES

APPEARANCE:	Clear, slightly coloured, mobile liquid.	SOLUBILITY (WATER):	Miscible with water in all proportions.
ODOUR:	Very slight, aromatic odour.	SPECIFIC GRAVITY:	About 1.15 g/mL @ 20 °C
pH:	← 2	% VOLATILES:	About 72 %
VAPOUR PRESSURE:	23 hPa @ 20 °C	FLAMMIBILITY:	No Data
VAPOUR DENSITY:		FLASH POINT:	Not Relevant
BOILING POINT:	→ 100 °C	UPPER EXPLOSION LIMIT:	Not Relevant

MELTING POINT:	Not Available	LOWER EXPLOSION LIMIT:	Not Relevant
EVAPORATION RATE:	Not Available	AUTOIGNITION:	Not Available
DENSITY:	Not Available		

10. STABILITY & REACTIVITY

MATERIAL TO AVOID: Incompatible materials. Alkalis, mild steel.

11. TOXICOLOGICAL INFORMATION

EYE	Corrosive irritant. May cause redness, irritation and pain. Risk of chemical conjunctivitis and corneal
INHALATION	An unlikely route owing to the low volatility of ingredients. Inhalation of aerosols or spray/mist may cause irritation to the upper respiratory tract, cardiac disturbances and central nervous system effects such as vertigo, anxiety, depression, and muscle incoordination and emotional instability. Overexposure may lead to pulmonary oedema(fluid build-up in the lungs). Onset of symptoms may be delayed.
SKIN	Irritating to skin. The concentrate may cause burns.
INGESTION	May cause burns to mouth, throat and epigastrium. May cause gastric upset, nausea, vomiting and possible diarrhoea. May cause cardiac disturbances.
TOXICITY DATA	Chronic: Repeated skin contact may lead to irritation and burns. LD50: Aminotri(methylenephosphonic acid) 2,100 mg/kg oral, rat.

12. ECOLOGICAL INFORMATION

ENVIRONMENT Contains phosphonic acids. May contribute to the formation of algal bloom in natural waters.

13. DISPOSAL CONSIDERATION

WASTE DISPOSAL Avoid disposal to natural waters or the environment. Do not use mild steel containers.
LEGISLATION Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION

SHIPPING NAME:	Corrosive liquid, n.o.s (aminotri(methylenephosphonic acid))			
UN No.	1760	DG CLASS	8	SUBSIDIARY RISK(S)
Pkg GROUP	III	HAZCHEM CODE	2X	EPG

15. REGULATORY INFORMATION

AICS All chemicals listed on the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

ADDITIONAL INFORMATION:

Additional Information

EXPOSURE STANDARDS - TIME WEIGHTED AVERAGES: Exposure standards are established on the premise of an 8 hour work period of normal intensity, under normal climatic conditions and where a 16 hour break between shifts exists to enable the body to eliminate absorbed contaminants. In the following circumstances, exposure standards must be reduced: strenuous work conditions; hot, humid climates; high altitude conditions; extended shifts (which increase the exposure period and shorten the period of recuperation).

ABBREVIATIONS:

ADB - Air-Dry Basis.

CAS# - Chemical Abstract Service number - used to uniquely identify chemical compounds.

CNS - Central Nervous System.

IARC - International Agency for Research on Cancer.

M - moles per litre, a unit of concentration.

mg/m³ - Milligrams per cubic metre.

NOS - Not Otherwise Specified.

pH - relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).

ppm - Parts Per Million.

TWA/ES - Time Weighted Average or Exposure Standard.

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES: The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

HEALTH EFFECTS FROM EXPOSURE: It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

This document has been compiled by the manufacturer of the product and serves as the manufacturer's Material Safety Data Sheet ('MSDS'). It is based on information concerning the product which has been provided to Ecowash Solutions obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue.

While Ecowash Solutions have taken all due care to include accurate and up-to-date Information in this MSDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, Ecowash Solutions accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this MSDS.