

SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: PHOSPHORIC ACID 85 % LA385

Synonyms:

Use: Acidic detergent used for derusting and descaling various metal and non-metal surfaces.

Supplier: Advance Chemicals

ABN: 61 005 625 025

Street Address: 4 – 8 Malton Court, Altona, 3018

Telephone Number: (03) 9398 4444

Emergency Telephone: Ted Powell (03) 9398 4444 (Business Hours)
0425 800 022 (After Hours)

2. HAZARDS IDENTIFICATION

Classified as hazardous according to criteria of the Globally Harmonised System of Classification and Labelling of Chemicals 7th Revised Edition.

Hazard Classification: HAZARDOUS SUBSTANCE, DANGEROUS GOODS.

Classification of the substance or mixture:

Skin Corrosion – category 1B

SIGNAL WORD: DANGER



Hazard Statement(s):

H314 – Causes severe skin burns and eye damage.

Precautionary Statement(s):

Prevention:

P102 Keep out of reach of children.

P103 Read label before use.

P104 Read Safety Data Sheet before use.

P260 – Do not breathe mist/vapour/spray

P264 – Wash hands thoroughly after handling

P280 - Wear protective gloves/eye protection/ face protection.

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Response:

P301 + P3330 +P331 – IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P303 + P361 + P353 – IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P363 – Wash contaminated clothing before re-use
 P321 – Specific treatment (see First Aid Measures on Safety Data Sheet)
 P304 + P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P310 – Immediately call a POISON CENTRE (131126) or doctor/physician if you feel unwell
 P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage:

P405 – Store in a well-ventilated place. Keep cool.

Disposal:

P501: Dispose of contents/container in accordance with local waste management authority.

Poisons Schedule (Australia): 5

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Entity	C.A.S. No.	Proportion	Risk phrases
Phosphoric Acid	7664-38-2	75 % - 85%	H314
Water	7732-18-5	To 100%	

4. FIRST AID MEASURES

Inhalation: Remove the source of contamination or move the victim to fresh air. Ensure airways are clear and have a qualified person give oxygen through a face mask if breathing is difficult. If victim has stopped breathing begin artificial respiration, or if heart has stopped, cardiopulmonary resuscitation. SEEK MEDICAL ATTENTION.

Skin Contact: Remove all contaminated clothing. Wash gently and thoroughly with water and non-abrasive soap for 15 minutes. Ensure contaminated clothing is washed before re-use or discard. SEEK MEDICAL ATTENTION.

Eye Contact: If contact with eye(s) occurs, wash with copious amounts of water for approximately 15 minutes holding eyelid(s) open. Take care not to rinse into the non-affected eye. SEEK IMMEDIATE MEDICAL ATTENTION.

Ingestion: Immediately wash out mouth with water and then give plenty of water to drink. SEEK IMMEDIATE MEDICAL ATTENTION.

Notes to Doctor: Treat symptomatically as for strong acids.

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5. FIRE FIGHTING MEASURES

Specific Hazards: Not flammable. Hazardous decomposition products include: toxic gases and vapours (phosphoric acid fumes may be released). May liberate phosphorous oxide.

Firefighting advice: Wear self-contained breathing apparatus (S.C.B.A) and full protective clothing to minimise skin exposure.

Suitable Fire Extinguishing Media: Use water fog on fires in which phosphoric acid is involved. Water may be used to extinguish fire by cooling and diluting liquid with water.

Hazchem Code: 2R

Flammability: Non flammable. Contact with strong alkalis may generate heat.

6. ACCIDENTAL RELEASE MEASURES

Wear full protective clothing, boots, protective gloves, goggles and a self contained breathing apparatus. Keep unnecessary people away.

Small Spills: Cover contaminated surface with sodium bicarbonate or a soda/flaked lime mixture (50-50). Mix and add water if necessary to form a slurry. Scoop up slurry and wash site with soda ash solution. Proper mixing is essential. Trained personnel should conduct this procedure. Untrained personnel should be removed from the spill area.

Large Spills: Persons not wearing protective equipment should be excluded from the area of spill until clean-up is complete. Stop spill at source. Dike to prevent spreading. Pump to salvage tank.

7. HANDLING AND STORAGE

Handling advice: Wear appropriate protective equipment to prevent inhalation, skin and eye contact. Ensure a high level of personal hygiene is maintained when using this product. That is, always wash hands before eating, drinking, smoking or using the toilet.

Storage advice: Store in a cool place and out of direct sunlight. Store in a well ventilated area. Store away from oxidising agents. Store away from foodstuffs. Keep containers securely sealed and protected against physical damage. Care must be taken especially where the material may be stored or used in glass vessels.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Occupational Exposure Limits:

Substance	TWA (ppm)	TWA (mg/m ³)	STEL (ppm)	STEL (mg/m ³)
Phosphoric acid	-	1	-	3

TWA – Time Weighted Average STEL – Short Term Exposure Limit

Engineering Controls: Maintain concentration below recommended exposure limit. Local exhaust ventilation usually required. Keep containers in a well ventilated area.

Personal Protection Equipment: Use only a MSHA/NIOSH approved respirator to prevent overexposure if vapour levels may or do exceed the exposure limits. Wear chemical splash goggles and face shield. Wear appropriate impervious gloves (neoprene, nitrile rubber, polyvinyl chloride, polyethylene) and protective clothing and boots to prevent skin contact. All employees who handle this product should wash their hands before eating, drinking, smoking or using the toilet.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear colourless, odourless syrupy liquid

Boiling Point: 135 deg C

Melting Point: Not available

Flash Point: Not available

Vapour Pressure: 5.65 mm Hg

Vapour Density (Air = 1) : >1

Flammability Limits: Not available

Specific Gravity: 1.692

pH (1% dispersion): < 1

Solubility in water: 100g/l

Corrosiveness: Corrosive to human tissue and most metals.

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity: LD50 (RAT) – 3500mg/kg (Slightly toxic)

Acute Dermal Toxicity: LD50 (RABBIT) - > 1260mg/kg (slightly toxic)

Acute Health Effects:

Ingested: Can produce burns to the mouth and lips; sever gastrointestinal irritation, nausea, bloody diarrhoea, difficult swallowing, severe abdominal pains, thirst, acidemia, difficult breathing, convulsions, collapse, shock and death.

Eye: May cause permanent eye injury. Symptoms include stinging, tearing, redness and swelling of eyes. Can injure the cornea and cause blindness.

Skin: May cause permanent skin burns. Phosphoric acid may not produce an immediate burning sensation upon contact, delaying the awareness of the worker that contact has occurred. Symptoms may include: redness, burning and swelling of the skin, burns and other skin damage.

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Inhaled: Breathing of vapour or mist is possible. Breathing this material may be harmful or fatal. Symptoms may include severe irritation and burns to the nose, throat and respiratory tract.

Chronic: Dermatitis may occur from prolonged exposure. No significant health effects could be found. This product is not considered to be a carcinogen or mutagen and no reproductive effects have been identified.

12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

13. DISPOSAL CONSIDERATIONS

Refer to Waste Management authority.

14. TRANSPORT INFORMATION

UN Number: 1805

Proper Shipping Name: PHOSPHORIC ACID SOLUTION

Dangerous Goods Class: 8

Subsidiary risk: N/A

Packing Group: III

Hazchem Code: 2R

Road and Rail Transport: Classified as Class 8 Dangerous Goods by criteria of the Australian Code for the transport of Dangerous Goods by Road and Rail.



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15. REGULATORY INFORMATION

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Poisons Schedule: 5

16. OTHER INFORMATION

This S.D.S. is valid for 5 years from the date of issue but may be withdrawn and revised anytime prior to that date. Please ensure that you are using the latest issue.

All information contained in this Safety Data Sheet is as accurate and up-to-date as possible. Since ADVANCE CHEMICALS cannot anticipate or control the conditions under which this information can be used, each user must review this information in the specific context of the intended application.

ADVANCE CHEMICALS will not be responsible for any damage or loss of any nature resulting from the use of or reliance upon this information. No expressed or implied warranties are given other than those mandated by Commonwealth, State or Territory legislation.

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