

SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL

Product Name: LIQUID DESCALER
Other names PHOSPHORIC ACID SOLUTION
Recommended Use: Removal of acid soluble soils such as hard water salts, cement dust, rust, uric acid, marine growths, etc. from washable surfaces.

EMERGENCY TELEPHONE NO: POISONS INFORMATION CENTRE **13 1126** OR (08) 8347 0040

2. HAZARD IDENTIFICATION

Classification of the substance:

Skin corrosion (Category 1B)

Label elements

Pictograms:



Signal word: Danger

Hazard statements:

H314 Causes severe skin burns and eye damage

Precautionary Statements:

P264 Wash hands thoroughly after handling.

P280 Wear protective, impervious PVC gloves and eye protection.

P302 + P352 IF ON SKIN: Wash off with plenty of water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332 + P313 If skin irritation occurs: Get medical advice.

P337 + P313 If eye irritation persists: Get medical advice.

P362 Take off contaminated clothing and wash before reuse.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Name</u>	<u>Proportion (w/v)</u>	<u>CAS Number</u>
Orthophosphoric Acid	>60%	7664-38-2
Proprietary surfactant blend	<10%	Not classified as hazardous
Other ingredients not classified as hazardous	Balance	Not classified as hazardous

4: FIRST AID MEASURES

For Advice, contact a Poisons Information Centre on 13 1126 (Australia wide) or a doctor.

Swallowed: If swallowed, do NOT induce vomiting.

Eye: 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 (e.g. phone Australia 13 11 26) or 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.
- Inhaled:** If affected, remove from contaminated area. Apply artificial respiration if not breathing. If any suspicion of aspiration into lungs, e.g. through swallowing and vomiting, seek urgent medical assistance.
- Advice to doctor:** Treat symptomatically.

5: FIRE FIGHTING MEASURES

Non-flammable

- Specific Hazards:** May react violently with strong alkalis such as sodium hydroxide (caustic soda). Reacts with chlorine releasing compounds generating dangerous chlorine gas.
- Extinguishing Media:** Water spray. (Non-flammable.)
- Unsuitable Extinguishing Media:** None known or expected.
- Protective Equipment for Firefighters:** Wear full protective clothing and self-contained breathing apparatus.
- Additional Advice:**
- Hazchem Code** No Hazchem code is set for this product under ADG code.

6: ACCIDENTAL RELEASE MEASURES

Observe all relevant local, federal and international regulations.

- Protective measures:** Avoid contact with spilled or released material. Immediately remove all contaminated clothing. For guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. For guidance on disposal of spilled material see Chapter 13 of this Material Safety Data Sheet. Shut off all leaks if this is possible without personal risk. Contain to prevent environmental contamination. Prevent from spreading or entering drains, ditches or rivers using sand, earth or other inert barriers.
- Spills:** Spills are slippery, clean up all spills promptly. For small liquid spills (< 1 drum), mop up all possible material and place in a sealable container for re-use or disposal. Rinse off remainder with water. Dispose in accordance with Federal, State and Local regulations.
- For large spills (> 1 drum), transfer by mechanical means, such as vacuum truck, to a salvage tank for recovery or safe disposal. Rinse off remaining residue with water. Dispose in accordance with Federal, State and Local regulations.

7: HANDLING AND STORAGE

- Precautions:** Avoid contact with skin and eyes.
Wear suitable protective clothing and equipment (PPE) to prevent skin and eye contact.
- Storage:** Store, tightly sealed, away from foodstuffs.
Ensure containers are correctly labelled, protected from potential damage and properly sealed when not in use.

8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- Exposure limits:** No exposure limits available for this product or its ingredients.

Recommended Minimum Personal Protective Equipment:

- EYE PROTECTION:** Safety glasses with side shields or splash proof chemical goggles.
GLOVE TYPE: PVC or Neoprene gloves
RESPIRATOR: Not normally required under normal use conditions. If finely atomised wear a mask or respirator approved for nuisance dust to prevent irritation of the respiratory tract.
OTHER: Suitable protective clothing to prevent skin contact, e.g. impervious overalls and PVC Apron.

9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Water clear, mobile liquid.
Boiling Point	100°C
Vapour Pressure	not determined
Specific Gravity	1.38 g/cm ³
Flash Point	none
Solubility in water	Miscible in all proportions
pH	1.0 (approx) neat

10: STABILITY AND REACTIVITY

Chemical Stability:	Stable under ambient storage conditions.
Conditions to Avoid:	Avoid storing at temperatures above 40°C or below 2°C. Storing in temperatures outside this range may lead to instability. This instability is not hazardous however, and once the product is returned to a temperature within the range above, gentle mixing will return it to a uniform state.
Material to Avoid:	Do not mix with other chemicals, especially chlorine (or other halogen) releasing compounds.
Decomposition:	If heated to decomposition, e.g. in a fire, oxides of carbon and nitrogen may be evolved.
Hazardous Reactions:	Reacts with chlorine releasing compounds evolving dangerous chlorine gas.

11: TOXICOLOGICAL INFORMATION**Possible Health Effects:****Acute:**

- Swallowed:** May be irritant. Ingestion of large quantities may induce gastrointestinal irritation. Aspiration during swallowing, or vomiting may severely affect lungs.
- Eye:** Irritant. Likely to cause stinging and lachrymation.
- Skin:** Prolonged exposure, especially to the concentrate, may lead to de-fatting of the skin, resulting in dryness, possible cracking and dermatitis.
- Inhaled:** Not normally an inhalation hazard, however if finely atomised, spray mist may be irritant to the respiratory tract.

Toxicity Data:

No data exists for this product or its ingredients.

12: ECOLOGICAL INFORMATION

- Environment:** Avoid release to the environment. Refer to Chapter 6 of this Material Safety Data Sheet.
- Ecotoxicity:** As with all compounds that contain surfactants, this product is acutely toxic to fish life.
- Persistence/Degradability:** This product contains phosphorous releasing compounds which can build up in waterways leading to plant and algal blooms.

13: DISPOSAL CONSIDERATIONS

- Waste Disposal:** Wear protective equipment. Refer to local authorities to ensure compliance with legislative requirements for correct disposal. Recover and recycle if possible.
- Container Disposal:** Drain container thoroughly. After draining, rinse with water.
- Local Legislation:** Disposal should be in accordance with applicable regional, nation and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with.

14: TRANSPORT INFORMATION

Classified as a Dangerous Good according to the criteria of the ADG Code.

- UN Number** 1805
Proper Shipping Name: PHOSPHORIC ACID SOLUTION
- DG Class** 8
Subsidiary Risk Class none
Packaging Group III
Hazchem Code 2R

- Storage and Transport:** Transport in original container or one that is correctly labelled and approved for Dangerous Goods Packaging Group III. Store away from food stuffs and in accordance with government regulations. Keep container tightly closed when not in use.

15: REGULATORY INFORMATION

- Poisons Schedule:** Schedule 6 poison - According to the criteria of the Poisons Standard October 2021.
- AICS:** All ingredients listed on the Australian Inventory of Chemical Substances.

16: OTHER INFORMATION

- SDS Revision Date: October 2021
Reason for up-date: Scheduled maintenance.