

SAFETY DATA SHEET

DESCALE : ACID DESCALER

1. IDENTIFICATION OF MATERIAL AND SUPPLIER

Product Name DESCALE
Product Code 184
Product Use Removes hard water scale from dishwashers, etc.
Company Name Byre Chemicals
Address 3/43 Byre Avenue
 Somerton Park SA 5044
Telephone 08 8350 9228
Fax 08 8350 9334
Emergency phone no. 0412 426 697
Email info@chemtecaustralia.com.au

2. HAZARDS IDENTIFICATION

GHS Classification H290 May be corrosive to metals
 H302 Harmful if swallowed Category 4
 H314 Causes severe skin burns and eye damage Category 1
Signal Word DANGER
Hazard Statement Harmful if swallowed
 Causes severe burns and eye damage
Precautionary Statement
 Avoid contact with skin and eyes
 Wear eye protection and rubber gloves
 Avoid inhaling mists
 If swallowed DO NOT induce vomiting. Give water or milk. Seek immediate medical help.
 Splashes on skin to be washed off immediately
 If splashed into eyes, remove contact lenses if present and wash with clean running water for 15 minutes. Seek medical attention immediately.
 Keep containers tightly closed and store in a lock-up facility.

Pictograms



3. COMPOSITION /INFORMATION ON INGREDIENTS

INGREDIENTS	CAS.NO.	PROPORTION
Phosphoric Acid	7664-38-2	60 - 80 %
Non Ionic Surfactant	9016-45-9	1 - 5 %
Non Hazardous Ingredients		1 - 5 %
Water		Balance

BYRE CHEMICALS

DESCALE : ACID DESCALER

4. FIRST-AID MEASURES

INHALATION	Avoid generating mists. Remove casualty from contaminated area
INGESTION	If swallowed Do Not induce vomiting. Give water or a glass of milk. If breathing has stopped, give artificial respiration. Transport to hospital.
SKIN	If skin contact occurs, remove contaminated clothing and wash skin thoroughly with soap and water. Wash clothing before re-use. If irritation persists, seek medical advice.
EYE	If in eyes, hold eyelids apart and flood the eye continuously with water for at least 10 minutes. Seek medical attention
FIRST AID	Eye wash. Safety shower , hand wash basin
ADVICE TO DOCTOR	Treat symptomatically

5. FIREFIGHTING MEASURES

Extinguishing Media	Carbon dioxide, or foam
Hazards from Combustion	Material won't burn but may emit carbon dioxide including carbon monoxide gas. Contact with some metals including aluminium and zinc will liberate flammable hydrogen gas
Precaution for Firefighter	Wear chemical suit. Prevent run off from entering drains and waterways.

6. ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURE

Evacuate all unauthorised personnel. Do not breathe fumes or handle damaged containers
For small spills hose down area. For large spills absorb onto an inert material such as dirt or sand. The collected material should then be transferred into suitable containers , labelled and disposed of in an appropriate way.
Dispose of waste according to applicable local and national regulations

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Wear appropriate protective clothing
Avoid inhalation of vapours and mists and skin or eye contact. Use only in a well ventilated area. Keep containers sealed when not in use.
Prevent the build up of mists and vapours in the work atmosphere. Do not use near ignition sources, cut, heat containers as they may produce hazardous fumes. Maintain high standards of personal hygiene ie washing hands prior to eating, drinking, smoking or using toilet facilities

CONDITIONS FOR SAFE STORAGE

Corrosive liquid . Store in a cool, dry, well ventilated area away from sources of ignition, oxidising agents , peroxides, foodstuffs and clothing. Large quantities should be stored in a banded dangerous goods store. Prevent contact with aluminium, tin, zinc or galvanised iron .Store in original containers

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits	Phosphoric Acid Acute Oral LD50 Rat 1530 mg/kg Dermal LD50 Rabbit 2740 mg/kg Inhalation LC50 Rat 850mg/m3 1 hour
Engineering Controls	This substance is corrosive. Keep containers closed when not in use.
Eye Protection	Safety glasses with side shields should be used.
Hand Protection	Wear gloves of impervious material such as neoprene, or nitrile rubber.
Hygiene Measures	Avoid contact with skin, eyes and clothing Wash hands after handling product. Keep away from foodstuffs.
Skin & Body Protection	Wear rubber gloves and apron

BYRE CHEMICALS

DESCALE : ACID DESCALER

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear green liquid.
Odour	Slight
pH	1.1
Boiling Point	Above 100C
Vapour Pressure	Not Applicable
Flash Point	None
Specific Gravity	1.36
Solubility in Water	Miscible in all proportions.

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions of storage and handling
Conditions to avoid	Excess heat exposure to air
Incompatible materials	Alkalis , strong oxidising agents.
Hazardous decomposition	Thermal decomposition may result in release of irritating fumes including carbon dioxide and carbon monoxide
Hazardous polymerization	Will not occur

11. TOXICOLOGICAL INFORMATION

Acute toxicity	Oral LD50 (Rabbit) 500 mgm/kg STEL 3 mgm/m ³ TWA 1 mgm/m ³
Ingestion	Corrosive. Harmful if swallowed. May cause burns to mouth and throat, nausea, vomiting, abdominal pain and diarrhoea. Can also cause swelling of the larynx and suffocation, perforation of stomach and intestines with constrictive scarring
Eyes	Corrosive. Causes severe burns which can result in permanent injury or blindness
Skin	Causes severe irritation and if untreated burns
Carcinogenic	No evidence of carcinogenic properties
Chronic Effects	Repeated or prolonged skin contact may cause chronic dermatitis.

12. ECOLOGICAL INFORMATION

Ecotoxicity	No data available
Persistence/Degradability	Low
Mobility	Soluble in water
Bioaccumulative Potential	No data available
Environmental	Do not discharge into drains, sewers, waterways

13. DISPOSAL CONSIDERATIONS

Spills & Disposal	Disposal of small spillages only. For large spillages liquids should be contained using sand or earth and both liquids and solids then transferred to salvage containers. Residues should be treated as for small spillages. CAUTION: Before dealing with spillage take necessary protective measures, inform others to keep at a safe distance and for flammable materials, shut off all possible sources of ignition.
Disposal	Land fill, sewer (small quantities). Refer to Land Waste Management Authority in your State

DESCALE : ACID DESCALER**14. TRANSPORT INFORMATION**

<i>Transport Information</i>	<i>This material is classified as Dangerous Goods Class 8</i>
<i>Proper Shipping Name</i>	<i>PHOSPHORIC ACID</i>
<i>UN.NO.</i>	<i>1805</i>
<i>Packaging Group</i>	<i>111</i>
<i>Hazchem Code</i>	<i>2R</i>
<i>DG Class</i>	<i>8</i>

15. REGULATORY INFORMATION*Regulatory Information*

*Classified as hazardous according to criteria of NOHSC
Poisons Schedule S6*

Hazard Category

Corrosive, irritant to skin

Risk Statement

Causes severe burns.

Safety Statement

Keep out of reach of children. In case of contact with eyes, rinse immediately with plenty of water and contact a doctor or Poisons Information Centre. Wear suitable gloves and eye/face protection. In case of accident or if unwell, contact a doctor or Poisons Information Centre immediately.

16. OTHER INFORMATION*Preparer Signature
Contact*

*Technical Director
Telephone: 08 8350 9228
24 hour emergency number 0412 426 697*

Every care is taken to ensure that the information printed hereon is true and accurate and that the contents are suitable for the purposes represented, but since the conditions of use are beyond the control of the manufacturers, they make no warranty, express or implied, and they disclaim any liability in connection with the use of this product, whether used separately or in combination with any other substance.