DISH MACHINE

DESCALE

PROCEDURE

Items Required

1. Rubber Gloves
2. Safety Glasses
3. Enviro Descaler
4. Hard bristle scrubbing brush

Before starting: put on your gloves & safety glasses

1. Turn Rinse/Detergent Dispenser OFF
2. Turn Dish Machine off and empty
3. Refill the Dish Machine and run one full cycle. Repeat step 2.
4. Refill the Dish Machine and add correct amount of Enviro Descaler (20mls/litre of water in wash tank). Ensure you have your gloves and safety glasses on.
5. Run the Dish Machine for one full cycle and inspect the interior, if the scaling is still present, scrub the areas of concern using the scrubbing brush. Close the machine and run a wash cycle.
6. Inspect the machine again and repeat step 5 until you are happy with the appearance of the machine.
7. Turn machine off and empty.
8. Refill and run the machine for one full cycle.
9. Turn the machine off and empty.
10. Turn the Rinse/Detergent Dispenser ON.
11. Refill the dish machine and run.

DO NOT skip steps 3 & 8 as the water pumps hold water, even if the machine is empty. You can not mix even a SMALL amount of Enviro Descaler and dish detergent: this will cause a toxic gas!!

FOR SAFETY & FIRST AID READ MSDS SHEET
SAFETY DATA SHEET

1. PRODUCT & COMPANY IDENTIFICATION

Product Name: DESCALER

Uses: Removal of calcium and rust stains from metal and mineral surfaces.

COMPANY DETAILS:
Company: Enviro Chemicals (Aust.) Pty Ltd.
(A.C.N : 094087493)
Address: 740-744 Woodville Road Fairfield East
NSW 2165.
Emergency PH: (02) 9755 2012 (Business hour) or
Poisons Information Centre Telephone: 13 11 26
2. HAZARDS IDENTIFICATION

STATEMENT OF HAZARDOUS NATURE
THIS PRODUCT IS CLASSIFIED AS: XN, HARMFUL. N, DANGEROUS TO THE ENVIRONMENT. C, CORROSIVE.
HAZARDOUS ACCORDING TO
THE CRITERIA OF SWA.
DANGEROUS ACCORDING TO THE AUSTRALIAN DANGEROUS GOODS (ADG) CODE.
RISK PHRASES: R22, R35, R52. HARMFUL IF SWALLOWED. CAUSES SEVERE BURNS. HARMFUL TO AQUATIC
ORGANISMS.
SAFETY PHRASES: S20, S23, S26, S46, S61, S24/25, S36/37/39. WHEN USING, DO NOT EAT OR DRINK. DO NOT
BREATHE MISTS OR SPRAY. IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND
CONTACT A DOCTOR OR POISONS INFORMATION CENTRE. AFTER CONTACT WITH SKIN, WASH IMMEDIATELY WITH PLENTY OF WATER. IF
SWALLOWED, CONTACT A DOCTOR OR POISONS INFORMATION CENTRE IMMEDIATELY AND SHOW THIS MSDS OR LABEL. AVOID RELEASE TO THE
ENVIRONMENT.
REFER TO SPECIAL INSTRUCTIONS/SAFETY DATA SHEETS. AVOID CONTACT WITH SKIN AND EYES. WEAR SUITABLE
PROTECTIVE CLOTHING, GLOVES AND EYE/FACE PROTECTION.
SUSMP CLASSIFICATION: S6
ADG CLASSIFICATION: CLASS 8: CORROSIVE SUBSTANCES.
UN NUMBER: 1719, CAUSTIC ALKALI LIQUID, N.O.S.

GHS SIGNAL WORD: DANGER

HAZARD STATEMENT:
H290: CORROSIVE TO METALS.
H302: HARMFUL IF SWALLOWED
H314: CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.
H440: HARMFUL TO AQUATIC LIFE.

PREVENTION
P102: KEEP OUT OF REACH OF CHILDREN.
P260: DO NOT BREATHE FUMES, MISTS, VAPOURS OR SPRAY.
P264: WASH CONTACTED AREAS THOROUGHLY AFTER HANDLING.
P370: DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT.
P280: WEAR PROTECTIVE GLOVES, PROTECTIVE CLOTHING AND EYE OR FACE PROTECTION.

RESPONSE
P310: IMMEDIATELY CALL A POISON CENTRE OR DOCTOR/PHYSICIAN.
P330: RINSE MOUTH
P631: WASH CONTAMINATED CLOTHING BEFORE REUSE.
P301+312: IF SWALLOWED: CALL A POISON CENTRE OR DOCTOR IF YOU FEEL UNWELL.
P303+361+351: IF ON SKIN (OR HAIR): REMOVE IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE
CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES.
P304+340: IF INHALED: REMOVE VICTIM TO FRESH AIR AND KEEP AT REST IN A POSITION COMFORTABLE FOR
BREATHING.
P305+351+338: IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT
LENSES, IF
PRESENT AND EASY TO DO. CONTINUE RINSE.
P332+333: IF SKIN IRRITATION OCCURS: GET MEDICAL ADVICE.
P337+313: IF EYE IRRITATION PERSISTS: GET MEDICAL ADVICE.
P391: COLLECT SPILLAGE.
P370+378: NOT COMBUSTIBLE. USE EXTINGUISHING MEDIA SUITED TO BURNING MATERIALS. WATER FOG OR
FINE SPRAY IS THE PREFERRED MEDIUM FOR LARGE FIRES.

STORAGE
P400+P404: STORE IN A DRY PLACE. STORE IN A CLOSED CONTAINER.
P403+P233: STORE IN A WELL-VENTILATED PLACE. KEEP COOL.

DISPOSAL
P501: DISPOSE OF SMALL QUANTITIES AND EMPTY CONTAINERS BY WRAPPING WITH PAPER AND PUTTING IN
GARBAGE. FOR LARGER QUANTITIES, IF RECYCLING OR RECLAIMING IS NOT POSSIBLE, USE A COMMERCIAL WASTE DISPOSAL
SERVICE.
3. COMPOSITION / INFORMATION ON INGREDIENTS

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<tr>
<th>Chemical Identity</th>
<th>Percentage</th>
<th>CAS No.</th>
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<tr>
<td>Phosphoric Acid</td>
<td>&lt; 60</td>
<td>7664-38-2</td>
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<tr>
<td>Water</td>
<td>&gt; 40</td>
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</table>

4. FIRST AID MEASURES

**Swallowed:** Drink 1 or 2 glasses of water. Do Not induce vomiting. NEVER give anything by mouth to an unconscious person. If symptoms persist seek medical advice.

**Eye Exposure:** Immediately flush eyes with plenty of water holding eyelids open. If eye irritation persists, seek medical advice.

**Skin Exposure:** Wash of with water. If skin irritation persists seek medical advice.

**Inhalation:** Remove victim from exposure to fresh air. If feeling unwell seek medical advice.

**Advice to Doctor**
Treat symptomatically based on individual reactions of patient and judgement of doctor.

5. FIRE FIGHTING MEASURES

**Hazchem Code:** 2R

**Extinguishing Media**
In case of fire, use appropriate media for surrounding fire. Product is water based and is unlikely to play a contributing role in any fire. Heated product may splatter.

**Special protective precautions and equipment for fire fighters**
Fire fighters should wear self contained breathing apparatus and full protective clothing along with protective equipment.

**Hazards from Combustion Products**
No data available.

**Flammability Conditions**
Product is not flammable.
6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:
USE PERSONAL PROTECTIVE EQUIPMENT INCLUDING IMPERVIOUS GLOVES AND EYE PROTECTION. SPILT MATERIAL CREATES SLIPPERY CONDITIONS.

ENVIRONMENTAL PRECAUTIONS: CAUTION:
KEEP SPILLS AND CLEANING RUNOFF OUT OF DRAINS AND OPEN BODIES OF WATER.

METHODS & MATERIALS FOR CONTAINMENT & CLEAN UP:
CONTAIN SPILLS IMMEDIATELY WITH INERT ABSORBENT MATERIALS (E.G. SAND, EARTH). TRANSFER LIQUIDS AND USED ABSORBENT MATERIAL TO SEPARATE SUITABLE CONTAINERS FOR RECOVERY OR DISPOSAL.

7. HANDLING & STORAGE

Handling:
Avoid contact with eyes and skin. Ensure eyewash and safety shower are available and ready for use.

Conditions for safe storage
Store in a cool, dry, well-ventilated area. Keep container tightly closed when not in use. Do not store next to strong oxidizing agents or strong acids.
8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limit(s): Phosphoric acid. - ASCC (AUS) / TWA - 1 mg/m³ / STEL - 3 mg/m³

Engineering measures: Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended. Maintain vapour levels below the recommended exposure standard.

Biological Limit Values: Not available

PPE Wear splash-proof goggles, full-length nitrile or full-length viton (R) or full-length neoprene or full-length butyl or full-length rubber or full-length PVC gloves and coveralls. When using large quantities or where heavy contamination is likely, wear: a PVC apron, rubber boots and full face protection. Where an inhalation risk exists, wear: a Type B (inorganic gases and vapours) respirator. If spraying, with prolonged use, or if in confined areas, wear: an Air-line respirator.

9. PHYSICAL & CHEMICAL PROPERTIES

Physical state: Liquid
Colour: Colourless
Odour: Odourless
pH: Less than 1.0
Boiling point/range: 158°C
Melting point/range: 21°C
Flash point: Non combustible
Lower explosion limit: Not applicable
Upper explosion limit: Not applicable
Vapour pressure: 2.2 hPa
Relative vapour density: 3.4 (Air = 1)
Water solubility: Miscible with water at all proportions
Relative density: 1.41 +/- 0.02
Viscosity, dynamic: Not applicable
Evaporation rate: Not established
Percent volatility: Not determined

NOTE: The physical data presented above are typical values and should not be construed as a specification.
10. STABILITY & REACTIVITY

CHEMICAL STABILITY: STABLE UNDER RECOMMENDED CONDITIONS OF STORAGE.
CONDITIONS TO AVOID: AVOID HEAT, SPARKS, OPEN FLAMES AND OTHER IGNITION SOURCES.

MATERIAL TO AVOID: INCOMPATIBLE WITH ALKALIS (EG. HYDROXIDES) AND METALS. ALSO INCOMPATIBLE WITH ALCOHOLS, ALDEHYDES, AMIDES, AMINES, AMMONIA, CYANIDES, GLYCOLS, KETONES, CARBAMATES, ESTERS, FLUORIDES, NITROMETHANE, MERCAPTINS, PHENOLS

HAZARDOUS DECOMPOSITION PRODUCTS: DECOMPOSITION PRODUCTS MAY EVOLVE TOXIC GASES (PHOSPHORUS OXIDES) WHEN HEATED TO DECOMPOSITION

HAZARDOUS REACTIONS: POLYMERIZATION IS NOT EXPECTED TO OCCUR.

11. TOXICOLOGICAL INFORMATION

Health Hazard Summary
Highly corrosive. This product has the potential to cause serious adverse health effects. Use safe work practices to avoid eye or skin contact and inhalation. Over exposure may result in severe skin, eye and respiratory burns with permanent lung and tissue damage. Upon dilution, the potential for adverse health effects may be reduced.

Eye: Highly corrosive. Contact may result in irritation, lacrimation, pain, redness and corneal burns with possible permanent damage.

Inhalation: Corrosive - toxic. Over exposure may result in irritation of the nose and throat, coughing and bronchitis. High level exposure may result in ulceration of the respiratory tract, lung tissue damage, chemical pneumonitis and pulmonary oedema. Effects may be delayed.

Skin: Corrosive. Contact may result in irritation, redness, pain, rash, dermatitis and possible burns. Prolonged or repeated contact may result in ulceration.

Ingestion: Highly corrosive. Ingestion may result in burns to the mouth and throat, nausea, vomiting, ulceration of the gastrointestinal tract, oedema, rapid pulse, shock, unconsciousness, convulsions and death.

Toxicity Data: PHOSPHORIC ACID (7664-38-2) LD50 (ingestion): 1530 mg/kg (rat) LD50 (skin): 2740 mg/kg (rabbit)
12. ECOLOGICAL INFORMATION

Ecotoxicity: No data available

Persistence and degradability: No information available for this product.

Mobility: No information available on this product.

Additional information

Environmental fate (exposure): Avoid contaminating waterways, drains and sewers.

Bioaccumulative potential: No information available for this product.

13. DISPOSAL CONSIDERATIONS

Environmental precautions: CAUTION:
Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

Disposal: Dispose of in accordance with local, state and federal regulations.
14. TRANSPORT INFORMATION

Product Name: PHOSPHORIC ACID Solution 85%
CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

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<td>Hazchem Code</td>
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<td>GTEPG</td>
<td>8A1</td>
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</table>

15. REGULATORY INFORMATION

Label
Classification and labelling have been performed according to regulations.

Poison Schedule
Classified as a Schedule 6 (S6) Poison using the criteria in the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

EPG:
PHOSPHORIC ACID Solution

Australia. Industrial Chemical (Notification and Assessment) Act (AUSTR).

All ingredients in this preparation are listed in the Australian Inventory of Chemical Substances, AICS.
16. OTHER INFORMATION

Date of Preparation: 01/01/2018

Key to Abbreviations & Acronyms Used in SDS:

< Less Than
> Greater Than
AICS Australian Inventory of Chemical Substances
CAS Chemical Abstracts Service (Registry Number)
LC50 LC stands for lethal Concentration. LC50 is the concentration of a material in air which causes death of 50% (one half) of a group of test animals.
LD50 LD stands for “Lethal Dose”. LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals.
OECD Organisation for Economic Co-operation and Development.
PEL Permissible Exposure Limit.
STEL Short Term Exposure Limit TLV Threshold Limit Value
TWA Time Weighted Average
UN United Nations (Number)
deg C (°C) Degrees Celsius g Gram g/cm³ Grams per cubic centimetre g/l Grams per litre
Immiscible Liquids are insoluble in each other kg Kilogram kg/m³ Kilograms per cubic metre
metre ltr Litre m³ Cubic metre mg Milligram mg/24H Milligrams per 24 hours mg/kg Milligrams per kilogram mg/m³ Milligrams per cubic metre
miscible Liquids form one homogeneous liquid ppm Parts per million wt Weight

Literature References: Supplies SDS

Enviro Chemicals Descaler SDS 01/01/2018
LITERATURE REFERENCES: SUPPLIES SDS

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END OF SDS