MATERIAL SAFETY DATA SHEET

1. PRODUCT & COMPANY IDENTIFICATION

Product Name: **DESCALER**

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

Supplier Details: ED Oates Pty Ltd Trading As: RESEARCH PRODUCTS
Address: 13-21 Maygar Boulevard, Broadmeadows, Victoria, 3047
ABN 61 004 329 462 ACN: 004 329 462
Telephone: (03) 9355 6994
Fax Number: (03) 9359 9509

Poisons Information Centre Telephone: 13 11 26

2. HAZARDS IDENTIFICATION

Classified as hazardous according to criteria of NOHSC
Risk Classification: C; Corrosive.
Risk Phrases: R34: Causes burns.

Safety Phrases

S1/2	Keep locked up and out of reach of children.
S24/25	Avoid contact with skin and eyes.
S26	In case of contact with eyes, rinse with plenty of water and seek medical advice.
S45	In case of accident or you feel unwell, seek medical advice immediately (show label or this MSDS whenever possible).

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Identity	Percentage	CAS No.
Phosphoric Acid	< 60	7664-38-2
Water	> 40	7732-18-5

4. FIRST AID MEASURES

Swallowed: Causes acid burns Drink 1 or 2 glasses of water. Do Not induce vomiting. NEVER give anything by mouth to an unconscious person. Seek medical advice.
Eye Exposure: Immediately flush eyes with plenty of water holding eyelids open. Seek medical advice.
Skin Exposure: Remove all contaminated clothing. Wash affected area with plenty of water. Launder clothing before reuse. 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

Product is water based and is unlikely to play a contributing role in any fire. Heat product may give of highly irritating fumes.

Special protective precautions and equipment for fire fighters

Fire fighters should use the appropriate equipment for the surrounding fire. Breathing apparatus must be worn.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:
Use personal protective equipment including impervious gloves and eye protection.
Spilt material can create 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.
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 alkalies.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limit(s): Not established for this product
Exposure controls:
Eye protection: Wear safety glasses.
Hand protection: Wear suitable gloves.
Engineering measures: Use only in well ventilated area.

9. PHYSICAL & CHEMICAL PROPERTIES

Physical state:	Liquid
Colour:	Colourless
Odour:	Acidic
pH:	Less than 1.0
Boiling point/range:	Approximately 100^{o}C
Melting point/range:	0^{o}C Water
Flash point:	Non combustible
Vapour pressure:	Not established
Relative vapour density:	Not established
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

Hazardous Reactions:	Product is stable under normal conditions of use, storage and temperature. Do not store in metal containers.
Materials to avoid:	Avoid contact with strong alkalies and strong oxidising agents.
Polymerization:	Product will not undergo polymerization.

11. TOXICOLOGICAL INFORMATION

No data is available for this material

Health Effects – Acute

Swallowed: Ingestion may cause acidic burns to the digestive tracts and digestive system.

Eye: May causes burns to eyes. Strong irritant.

Skin: Irritating to skin. Danger of skin burns.

Inhaled: Inhalation may causes irritation to the mucus membranes.

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

Australian Code For Transport of Dangerous Goods by ROAD and RAIL

U.N. Number: 1805

U.N. Proper Shipping Name: PHOSPHORIC ACID SOLUTION

Subsidiary Risk: N/A

Packaging Group: III

Hazchem Code: 2R

15. REGULATORY INFORMATION

Label

Classification and labelling have been performed according to regulations.

Poison Schedule S6

EPG : CORROSIVE LIQUID, ACIDIC, INORGANIC NOS

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: 08.08.2008
Key to Abbreviations & Acronyms Used in MSDS:

<	**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.**
NOHSC	**National Occupational Health and Safety Commission.**
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**
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 MSDS

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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