

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: DESCALER
Product Code: DS5L
Product DG Class: 8
Version: 1.2
Revision Date: August 2018 (Reviewed and revised by A.J.Haggerty. - Refer to Section 16: Other Information)

Description

For the descaling of pipework internally.

Contact Details

Kyle Chemicals
PO Box 173
OTAKI
Telephone (06) 364-6888
Facsimile (06) 364-8788

**Poisons Information Centre
New Zealand
Telephone 0800 764 766**

Chemical Details

Chemical Name: Descaler.
Chemical Classification: Strong Corrosive Acid.
Chemical Formula: No Data Available.

Section 1 Notes: This Material Safety Data Sheet may not provide exhaustive guidance for all HASNO Controls assigned to this substance. The EPA website www.epa.govt.nz should be consulted for a full list of triggered controls and cited regulations.

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical Entity</u>	<u>C.A.S. No</u>	<u>HSNO Classification</u>	<u>Proportion % WT</u>
Phosphoric Acid	7664-38-2	6.1D, 8.1A, 8.2C, 8.3A, 9.1D, 9.3C	4.5 - 5.5
Hydrochloric Acid	7647-01-0	6.1D, 8.1A, 8.2B, 8.3A, 9.3C	19.5 - 20.5

Non hazardous ingredients and water make product to 100%.

HSNO classification of the substance

6.1E Substances that are acutely toxic 8.1A Substances that are corrosive to metals, 8.2B Substances that are corrosive to dermal tissue. 8.2C Substances that are corrosive to dermal tissue. 8.3A Substances that are corrosive to ocular tissue, 9.1D Substances that are slightly harmful to the aquatic environment or are otherwise designed for biocidal action,





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3. HAZARDS IDENTIFICATION

Emergency Overview:	Moderately Acidic/ toxic by ingestion. Irritating to eyes and skin. Do not inhale vapors.
Carcinogenicity:	Not Carcinogenic.
Acute Health Hazards:	Moderately toxic by ingestion.
Chronic Health Hazards:	May cause headaches, nausea, dizziness, and vomiting, leading to unconsciousness and collapse.

Potential Health Effects

Eyes:	May cause inflammation and irritation to eye(s).
Skin:	On prolonged contact may cause irritation due to a "Defatting" effect on the skin.
Ingestion (Oral):	Moderately toxic by ingestion. May cause headaches, dizziness, nausea, and vomiting.
Inhalation:	May cause headaches, dizziness, nausea, and vomiting.

4. FIRST AID MEASURES

Physicians or First Aiders:	This product is a strong corrosive Acid. Treat symptomatically based on judgment of doctor and individual reactions of the patient.
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Directions

Eyes:	If splashed in eye(s), remove contact lenses if worn and irrigate eyes with running water for fifteen minutes. Seek medical attention.
Skin:	Wash area affected with running water. Seek medical attention if irritation develops.
Ingestion (Oral):	Give a glass of water or milk to drink and do NOT induce vomiting. Seek urgent medical attention.
Inhalation:	Remove to a well-ventilated area. Seek urgent medical attention.

5. FIRE FIGHTING MEASURES

Extinguishing Media:	Product is a non-flammable liquid. In case of fire, use appropriate extinguishing media most suitable for surrounding fire conditions.
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6. ACCIDENTAL RELEASE MEASURES

Accidental Release Measures:	Contain large spills by absorbing with sand or earth. Store contained spill in clearly labelled drum for disposal. Wash small spills down with water.
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7. HANDLING AND STORAGE

Handling and Storage:	Store in a cool dry and secure area. Keep out of reach of children. Do not mix with other chemicals.
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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation:	Use with adequate ventilation.
Eye Protection:	It is recommended that eye protection be worn.
Skin Protection:	It is recommended that rubber gloves and protective clothing be worn.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear liquid
Odor:	No Data Available
Physical State:	Liquid
Ph As Supplied:	1
Specific Gravity:	1.06
Flash Point:	No Data Available
Boiling Point:	100°C
Solubility in Water:	Miscible
Viscosity (at 20 0°C):	No Data Available

10. STABILITY AND REACTIVITY

No Data Available

11. TOXICOLOGICAL INFORMATION

Toxicological Health Effects

Eyes:	May cause inflammation and irritation to eye(s).
Skin:	On prolonged contact may cause irritation due to a "Defatting" effect on the skin.
Ingestion (Oral):	Moderately toxic by ingestion. May cause headaches, dizziness, nausea and vomiting.
Inhalation:	May cause headaches, dizziness, nausea and vomiting.

12. ECOLOGICAL INFORMATION

No Data Available.

13. DISPOSAL CONSIDERATIONS

Empty packaging should be disposed of in accordance with local and state regulations or recycled at an approved facility. Refer to waste management authorities for disposal of the contents or through a licensed waste contractor.

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14. TRANSPORT INFORMATION

Proper Shipping Name:	CORROSIVE LIQUID ACIDIC INORGANIC NOS.
Technical Name:	CONTAINS HYDROCHLORIC & PHOSPHORIC ACID.
Class - Primary:	8
UN No:	3264
Hazchem Code:	2R
Flash Point:	/
Packing Group:	II



15. REGULATION INFORMATION

HSNO Act 1996:	HSNO Approval Number HSR002530. Cleaning Products (Subsidiary Hazard) Group Standard 2006.
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Response Plans and Secondary Containment (Trigger Quantities)

100 L or 100 kg:	HSNO: 9.1A substance.
1,000 L or 1,000 kg:	HSNO: 6.1D, 6.5A, 6.5B, 6.7A, 8.2B, 9.1B, OR 9.1C substance.
10,000 L or 10,000 kg:	HSNO: 9.1D, 8.3A, 6.6A, 6.8A, or 6.9A substance.

Signage (Trigger Quantities)

100 L or 100 kg:	HSNO: 9.1A substance.
250 L or 250 kg:	HSNO: 8.2B substance
1,000 L or 1,000 kg:	HSNO: 6.1D, 6.5A, 6.5B, 9.1B, OR 9.1C substance.
10,000 L or 10,000 kg:	HSNO: 9.1D, 8.3A, 6.6A, 6.8A, or 6.9A substance.

16. OTHER INFORMATION

Disclaimer:

The information contained herein has been provided in good faith, compiled by Kyle Chemicals, from sources it considers reliable and, is accurate to the best of Kyle Chemicals knowledge. Before using the product identified hereon, the foregoing MSDS and product label should be read carefully. The information contained herein relates only to the product identified hereon, and does not relate to its use in combination with any other material or in any process.

Customers are encouraged to conduct their own tests concerning the uses of the product identified hereon as each customer's manner and conditions of use and handling may involve additional considerations.

Kyle Chemicals assumes and shall incur no liability for any damages, losses. Injuries, costs, or consequential damages that may result from the use or misuse of the product identified hereon, and the recipient assumes all of such liability.

The classifications in this SDS have been reviewed and revised by our Consultant: A.J.Haggerty