

SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

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DESCALE

Revision 0

Revision date 2015-03-25

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name DESCAL

1.2. Relevant identified uses of the substance or mixture and uses advised against

Product Use [SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites; [PC35] Washing and cleaning products (including solvent based products);

Description **Equipment Descaler**

1.3. Details of the supplier of the safety data sheet

Company Spectrum Industrial Limited
Address 19/24 Bedesway
Bede Industrial Estate
Jarrow
Tyne & Wear
NE32 3EG
Web www.spectrumindustrial.co.uk
Telephone 0191 4301111
Fax 0191 4837422
Email sales@spectrum-ind.co.uk
Email address of the competent person sales@spectrum-ind.co.uk

1.4. Emergency telephone number

Emergency telephone number 0191 4301111
9.00 am - 5.00 pm Mon - Fri

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.1. Classification - 67/548/EEC C; R34
Symbols: C: Corrosive.

Main hazards Causes burns.

2.1.2. Classification - EC 1272/2008 Skin Corr. 1B: H314;

2.2. Label elements

Hazard pictograms



Signal Word

Danger

Hazard Statement

Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.

Precautionary Statement: Prevention

P102 - Keep out of reach of children.
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.

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2.2. Label elements

Precautionary Statement: Response	P264 - Wash thoroughly after handling.
	P280 - Wear protective gloves/protective clothing/eye protection/face protection.
	P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
	P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
	P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Precautionary Statement: Storage	P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P310 - Immediately call a POISON CENTER or doctor/physician.
	P363 - Wash contaminated clothing before reuse.
	P405 - Store locked up.

2.3. Other hazards

Other hazards	This product does not contain any substances classified as PBT or vPvB.
Further information	
Supplemental label information	Contains:. Phosphoric Acid.

SECTION 3: Composition/information on ingredients

3.1. Substances

67/548/EEC / 1999/45/EC

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
Phosphoric acid...% (Orthophosphoric acid)	015-011-00-6	7664-38-2	231-633-2	01-2119485924-24	40 - 50%	C; R34

EC 1272/2008

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SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Inhalation of vapour may cause shortness of breath. Move the exposed person to fresh air. Seek medical attention.
Eye contact	Causes burns. Causes severe inflammation and may damage the cornea. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention.
Skin contact	Causes burns. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
Ingestion	Ingestion causes burns to the respiratory tract. DO NOT INDUCE VOMITING. If swallowed, seek medical advice immediately and show this container or label.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation	Inhalation of vapour may cause shortness of breath.
Eye contact	Causes burns.
Skin contact	Causes burns.
Ingestion	Ingestion causes burns to the respiratory tract.

4.3. Indication of any immediate medical attention and special treatment needed

Inhalation	Seek medical attention.
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4.3. Indication of any immediate medical attention and special treatment needed

Eye contact	Seek medical attention.
Skin contact	Seek medical attention.
Ingestion	Seek medical attention.

SECTION 5: Firefighting measures**5.1. Extinguishing media**

	Use extinguishing media appropriate to the surrounding fire conditions.
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5.2. Special hazards arising from the substance or mixture

	Corrosive. Burning produces irritating, toxic and obnoxious fumes.
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5.3. Advice for firefighters

	Wear suitable respiratory equipment when necessary.
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SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

	Ensure adequate ventilation of the working area. Evacuate personnel to a safe area. Wear suitable protective equipment.
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6.2. Environmental precautions

	Do not allow product to enter drains. Prevent further spillage if safe. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental agency or other appropriate regulatory body.
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6.3. Methods and material for containment and cleaning up

	Absorb with inert, absorbent material. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.
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6.4. Reference to other sections

	For personal protection see section 8. Collect and dispose of spillage as indicated in section 13.
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SECTION 7: Handling and storage**7.1. Precautions for safe handling**

	Avoid contact with eyes and skin. Ensure adequate ventilation of the working area.
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7.2. Conditions for safe storage, including any incompatibilities

	Keep in a cool, dry, well ventilated area. Keep containers tightly closed.
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7.3. Specific end use(s)

	See section 1.2.
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Suitable packaging

	Plastic containers.
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SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

	WEL = Work place exposure limit.
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8.1.1. Exposure Limit Values

Phosphoric acid...% (Orthophosphoric acid)	WEL 8-hr limit ppm: -	WEL 8-hr limit mg/m3: 1
	WEL 15 min limit ppm: -	WEL 15 min limit mg/m3: 2




8.2. Exposure controls

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8.2. Exposure controls

	  
8.2.1. Appropriate engineering controls	Ensure adequate ventilation of the working area.
8.2.2. Individual protection measures	Wear chemical protective clothing.
Eye / face protection	Approved safety goggles.
Skin protection - Handprotection	Chemical resistant gloves (PVC).
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State	Liquid
Colour	Colourless
Odour	Mild
pH	< 2
Melting point	No data available
Freezing Point	No data available
Boiling point	No data available
Flash point	Not applicable.
Evaporation rate	No data available
Flammability limits	Not applicable.
Vapour Flammability	Not applicable.
Vapour pressure	No data available
Vapour density	No data available
Relative density	1.28 (Water = 1 @ 20 °C)
Fat Solubility	No data available
Partition coefficient	No data available
Autoignition temperature	Not applicable.
Viscosity	No data available
Explosive	Not applicable.
Oxidising	Not applicable.
Solubility	Soluble in water

9.2. Other information

Conductivity	No data available
Surface tension	No data available
Gas group	Not applicable.
Benzene Content	Not applicable.
Lead content	Not applicable.
VOC (Volatile organic compounds)	Not applicable.

SECTION 10: Stability and reactivity

10.1. Reactivity

	Avoid contact with: Alkalis.
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10.2. Chemical stability

	Stable under normal conditions.
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10.4. Conditions to avoid

	There are no known conditions that are likely to result in a hazardous situation.
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10.5. Incompatible materials

	Alkalis. Chlorine releasing materials will liberate toxic chlorine gas.
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10.6. Hazardous decomposition products

	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Skin corrosion/irritation	Causes burns.
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Serious eye damage/irritation	Causes burns.
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11.1.4. Toxicological Information

C9-11 Alcohol Ethoxylate	Dermal Rat LD50: 2000 mg/kg
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SECTION 12: Ecological information

12.1. Toxicity

	No data is available
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12.2. Persistence and degradability

	Biodegradable.
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12.3. Bioaccumulative potential

	The product does not contain any substances expected to be bioaccumulating.
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12.4. Mobility in soil

	No data is available on this product.
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12.5. Results of PBT and vPvB assessment

	Not applicable.
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Further information

Ecotoxicity	Potentially hazardous due to the acidity of the product.
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SECTION 13: Disposal considerations

General information

	Dispose of in compliance with all local and national regulations.
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Disposal of packaging

	After final product withdrawal, all residues must be removed from containers (drip-free, powder-free or paste-free). Can be recycled if in compliance with local and national regulations.
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SECTION 14: Transport information

Hazard pictograms



14.1. UN number

	UN1805
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14.2. UN proper shipping name

	PHOSPHORIC ACID, SOLUTION
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14.3. Transport hazard class(es)

ADR/RID	8
Subsidiary risk	-
IMDG	8
Subsidiary risk	-
IATA	8
Subsidiary risk	-

14.4. Packing group

Packing group	III
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14.5. Environmental hazards

Environmental hazards	No
Marine pollutant	No

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

	Not relevant.
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ADR/RID

Hazard ID	80
Tunnel Category	(E)

IMDG

EmS Code	F-A S-B
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IATA

Packing Instruction (Cargo)	856
Maximum quantity	60 L
Packing Instruction (Passenger)	852
Maximum quantity	5 L

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

	Safety Data Sheet prepared in accordance with REACH commission Regulation (EU) No 453/2010 (which amends Regulation (EC) No 1907/2006). The product is as classified under GHS/CLP - Regulation (EC) No 1272/2008 classification, labelling & packaging of substances & mixtures. Ingredients are listed with classification under both CHIP - Directive 67/548/EEC classification, packaging & labelling of dangerous substances & GHS/CLP - Regulations (EC) No 1272/2008 classification, labelling & packaging of substances & mixtures.
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15.2. Chemical safety assessment

	No chemical safety assesment has been carried out as not applicable as this product is a mixture.
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SECTION 16: Other information

Other information

Text of risk phrases in Section 3	The Risk Phrases/Hazard statements listed below in this section No 16 relate to the Raw Materials (ingredients) in the Product (as listen in section 3) Phrases/Hazard Statements relating to this Product see Section 2.
	R34 - Causes burns.
Text of Hazard Statements in Section 3	Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.

Further information

	The information supplied in this Safety Data Sheet is designed only as guidance for the safe use,
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Further information

storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This 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 other process.