

SAFETY DATA SHEET
according to Regulation (EU) 2015/830


Limescale Remover (HYC154)

Revision: 1
Revision date: 07/05/2021

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

1.1 Product identifier	
Product name	Limescale Remover (HYC154)
1.2 Relevant identified uses of the substance or mixture and uses advised against	
Product Use	[SU22] Professional uses: Public domain (administration, education, entertainment, services, craftsmen); [PC35] Washing and cleaning products (including solvent based products);
1.3 Details of the supplier of the safety data sheet	
Company Address	Enveloped Design Solutions Ltd Piksa House, 2 Penrod way, Heysham LA3 2UZ United Kingdom
Web	www.edsltd.uk
Telephone	01524 387655
Email:	info@edsltd.uk
1.4 Emergency telephone number	
Emergency telephone number	028 9267 3331. In the event of a medical enquiry involving this product, please contact your GP or local A&E dept.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture	
2.1.2 Classification - EC 1272/2008	Skin Corr. 1B: H314; STOT SE 3: H335;
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	P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary Statement: Response	P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. 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/doctor/ . P363 - Wash contaminated clothing before reuse.
Precautionary Statement Storage	P405 - Store locked up.
Precautionary Statement: Disposal	P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

Further information	Contains: hydrochloric acid.
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SECTION 3: Composition/information on ingredients

3.2 Mixtures
EC 1272/2008

Chemical name	Index No.	CAS No.	EC No.	REACH registration Number	Conc (%w/w)	Classification
Hydrochloric acid	017-002-01	7647-01-0	231-595-7	01-2119484862-27	10-20	Skin Corr. 1B: H314; STOT SE 3: H335;
Orthophosphoric acid	015-011-00-6	7664-38-2	231-633-2	01-2119485924-00	1-10	Skin Corr. 1B: H314;

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. Wash with water. 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	Irritant, Severe respiratory.
Eye contact	Causes severe burns.
Skin contact	Causes severe burns.
Ingestion	Causes severe burns.

4.3 Indication of any immediate medical attention and special treatment needed

	No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.
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SECTION 5: Firefighting measures

5.1 Extinguishing media

	Use as appropriate: Carbon dioxide (CO ₂), Dry chemical, Foam.
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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.
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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 protective equipment see subsection 8.2. For disposal considerations see 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. Adopt best manual handling considerations when handling, carrying and dispensing.
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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. For incompatibilities refer to section 10.4.
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7.3 Specific end use(s)

	No specific advice for end use available.
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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.1.1 Exposure Limit Values - UK

Hydrochloric acid	WEL 8-hr limit mg/m ³ : 2 WEL 8-hr limit ppm: 1 WEL 15 min limit mg/m ³ : 8
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	WEL 15 min limit ppm: 5
Orthophosphoric acid	WEL 8-hr limit mg/m ³ : 1 WEL 15 min limit mg/m ³ : 2

8.1.1 Occupational Exposure Limits Values (OELVs) - Ireland

Hydrochloric acid	Occupational Exposure Limit Value (8-hour reference period)	5 ppm 8 mg/m ³
	Occupational Exposure Limit Value (15-minute reference period)	10 ppm 15 mg/m ³
Orthophosphoric acid	Occupational Exposure Limit Value (8-hour reference period)	1 mg/m ³
	Occupational Exposure Limit Value (15-minute reference period)	2 mg/m ³

DNEL: Derived no-effect level.


Exposure Pattern - Workers

Orthophosphoric acid	Long-term - inhalation - Local effects	2.92 mg/m ³
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Exposure Pattern - General population

Orthophosphoric acid	Long-term - inhalation - Local effects	0.73 mg/m ³
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8.2 Exposure controls

	
8.2.1 Appropriate engineering controls	Adopt best Manual Handling considerations when handling, carrying and dispensing. Take off immediately all contaminated clothing. Avoid contact with skin and eyes. Wash hands after handling the product.
8.2.2 Individual protection measures	Ensure adequate ventilation of the working area.
Eye / face protection	Wear chemical-resistant clothing and boots in case direct dermal exposure and/or splashes may occur (EN 14605)
Skin protection - Hand protection	Safety glasses. (EN166) Chemical resistant gloves (PVC). (EN 374)
Respiratory protection	If exposure to liquid particles or splashes cannot be avoided use: half mask (EN 140) with particle filter P2 (EN 143) or full-face mask (EN 136) with particle filter P1 (EN 143) Consider specific local use conditions. In consultation with the supplier of respiratory protection equipment a different type providing similar protection may be chosen. Specific applications tools may be available to limit exposure. Please refer to the technical information sheet for the possibilities.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Liquid
Colour	Red
Odour	Characteristic
pH	<1.0
Melting point	Not determined
Freezing Point	Not determined
Initial boiling point	Not determined
Flash point	Not determined
Evaporation rate	Not determined
Flammability (solid, gas)	Not applicable to liquids
Fat Solubility	Not determined
Partition coefficient	Not determined
Autoignition temperature	Not determined
Viscosity	<100 cp @20°C

Explosive properties	Not explosive
Oxidising properties	Not oxidising
Solubility	Soluble in water
Vapour pressure	Not determined

9.2 Other information

Conductivity	Not determined
Surface tension	Not determined
Specific gravity	1.09 g/cm ³

SECTION 10: Stability and reactivity

10.1 Reactivity

	No reactivity hazards known under normal storage and use conditions.
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10.2 Chemical stability

	Stable under normal conditions.
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10.3 Possibility of hazardous reactions

	No other adverse effects known.
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10.4 Conditions to avoid

	Avoid contact with: Alkalis, Chlorine-based bleaching agents
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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Skin corrosion/irritation	Causes burns.
Germ cell mutagenicity	No mutagenic effects reported.
Carcinogenicity	No carcinogenic effects reported.
Reproductive toxicity	No observed effect level.

11.1.4 Toxicological Information

Hydrochloric acid	Inhalation Rat LC50/15min: NDA	Dermal Rat LD50 NDA
	Oral Rat LD50: 900 mg/kg	Oral Mouse LD50: NDA
	Dermal Rabbit LD50: > 5010 mg/kg	Dermal Guinea Pig LD50 NDA
Orthophosphoric acid	Inhalation Rat LC50/15min: NDA	Dermal Rat LD50: NDA
	Oral Rat LD50: NDA	Oral Mouse LD50 NDA
	Dermal Rabbit LD50: NDA	Dermal Guinea Pig LD50: NDA

SECTION 12: Ecological information

12.1 Toxicity

Hydrochloric acid	Daphnia EC50/48h: 0.4920 mg/l
	Lepomis_Macrochirus LC50/96h: 24.6 mg/l
	Algae IC50/72h: 0.78 mg/l
Orthophosphoric acid	Algae EC50/72h: NDA
	Guppy LC50/96h: NDA
	Daphnia LC50/48h: NDA

12.2 Persistence and degradability

	No data is available on this product.
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12.3 Bioaccumulative potential

	No data is available on this product.
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Partition coefficient

	No data is available on this product.
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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

	Substances that fulfill the criteria for PBT/vPvB, if any, are listed in section 3.
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12.6 Other adverse effects

	No other adverse effects known.
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SECTION 13: Disposal considerations

General information

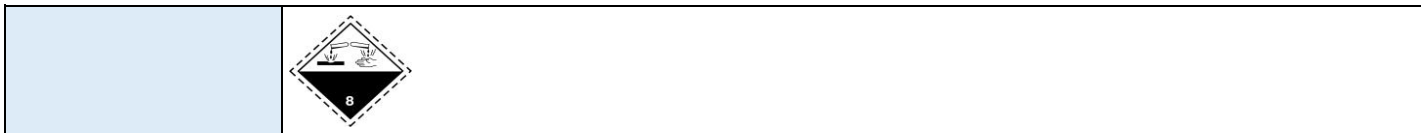
	Dispose of in compliance with all local and national regulations.
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Disposal of packaging

	Dispose of in compliance with all local and national regulations. Empty containers can be cleaned with water.
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Further information

	European Waste Catalogue: 20 01 14 acids.
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SECTION 14: Transport information**Hazard pictograms****14.1 UN number**

	UN1760
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14.2 UN proper shipping name

	CORROSIVE LIQUID, N.O.S. (PHOSPHORIC & HYDROCHLORIC ACID)
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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

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	30L
Packing Instruction (Passenger)	852
Maximum quantity	5L

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

	<p>EU regulations:</p> <ul style="list-style-type: none"> • Regulation(EC)No.1907/2006 - REACH • Regulation(EC)No1272/2008 - CLP • Regulation(EC)No.648/2004 - Detergents regulation <p>Ingredients according to EC Detergents Regulation 648/2004 Non-ionic surfactants 0% - < 5%</p>
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15.2 Chemical safety assessment

	A chemical safety assessment has not been carried out on the mixture.
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SECTION 16: Other information**Other information**

Revision	This document differs from the previous version in the following areas: Changes to sections: NEW LC: Lethal concentration. LD: Lethal dose. NDA - No data available. NOAEC: No observed adverse effect concentration. NOAEL: No observed adverse effect level. NOEC: No observed effect concentration. NOEL: No observed effect level. PBT: Persistent, bioaccumulative and toxic.
Acronyms	

Text of Hazard Statements in Section 3	SVHC. Substance of very high concern. vPvB. Very persistent and very bioaccumulative. *R01 - Polymer REACH number not available. Skin Corr. 1B: H314 - Causes severe skin burns and eye damage. Skin Irrit. 2: H315 - Causes skin irritation. Eye Irrit. 2: H319 - Causes serious eye irritation. STOT SE 3: H335 - May cause respiratory irritation
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Further information

	The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, 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. Internal ref: F000043
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