



SAFETY DATA SHEET LIFEGUARD LIMESCALE REMOVER

According to Regulation (EC) No 1907/2006, Annex II, as amended.

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

1.1. Product identifier

Product name LIFEGUARD LIMESCALE REMOVER
Product number LGLR1LTR

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

Identified uses Toilet Cleaner

1.3. Details of the supplier of the safety data sheet

Supplier Deb Ltd
Denby Hall Way
Denby
Derbyshire
DE5 8JZ
Main Tel. 01773 855100
Technical Tel 01773 855105
reach@deb.co.uk

1.4. Emergency telephone number

Emergency telephone National Poisons Information Service (UK) 0344 8920111 (Health Professionals only)
National Poisons Information Centre (Eire) 01-8092566/8379964

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified
Health hazards Skin Corr. 1B - H314 Eye Irrit. 2 - H319
Environmental hazards Aquatic Chronic 3 - H412

2.2. Label elements

Pictogram



Signal word Danger

Hazard statements H314 Causes severe skin burns and eye damage.
H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.

LIFEGUARD LIMESCALE REMOVER

Precautionary statements

P280 Wear protective clothing, gloves, eye and face protection.
 P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P302+P352 IF ON SKIN: Wash with plenty of water.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P313 Get medical advice/ attention.
 P501 Dispose of contents/ container in accordance with national regulations.

Contains PHOSPHORIC ACID

Detergent labelling < 5% cationic surfactants, < 5% non-ionic surfactants, Contains ALPHA-ISOMETHYLIONONE, CITRONELLOL, LIMONENE

Supplementary precautionary statements P362+P364 Take off contaminated clothing and wash it before reuse.

2.3. Other hazards

None.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

PHOSPHORIC ACID	1-5%
CAS number: 7664-38-2	EC number: 231-633-2
REACH registration number: 01-2119485924-24-XXXX	
Classification	
Met. Corr. 1 - H290	
Acute Tox. 4 - H302	
Skin Corr. 1B - H314	
Eye Dam. 1 - H318	
ALCOHOL (C9-C11) ETHOXYLATE (6EO)	1-5%
CAS number: 68439-45-2	
Classification	
Acute Tox. 4 - H302	
Eye Dam. 1 - H318	
ALKYL BENZYL DIMETHYL AMMONIUM CHLORIDE	<1%
CAS number: 68424-85-1	EC number: 270-325-2
REACH registration number: 01-2119970550-39-XXXX	
M factor (Acute) = 10	M factor (Chronic) = 1
Classification	
Met. Corr. 1 - H290	
Acute Tox. 4 - H302	
Acute Tox. 4 - H312	
Skin Corr. 1B - H314	
Eye Dam. 1 - H318	
Aquatic Acute 1 - H400	
Aquatic Chronic 1 - H410	

LIFEGUARD LIMESCALE REMOVER

The full text for all hazard statements is displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	If spray/mist has been inhaled, proceed as follows. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.
Ingestion	Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention immediately.
Skin contact	Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention promptly if symptoms occur after washing.
Eye contact	Remove affected person from source of contamination. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue to rinse.

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

Inhalation	This is unlikely to occur but symptoms similar to those of ingestion may develop.
Ingestion	May cause chemical burns in mouth and throat. May cause stomach pain or vomiting.
Skin contact	This product is strongly corrosive.
Eye contact	Causes serious eye damage.

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

Notes for the doctor	Treat symptomatically.
-----------------------------	------------------------

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products None known.

5.3. Advice for firefighters

Protective actions during firefighting No specific firefighting precautions known.

Special protective equipment for firefighters Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Environmental precautions Avoid discharge to the aquatic environment. The product may affect the acidity (pH) of water which may have hazardous effects on aquatic organisms. Collect and dispose of spillage as indicated in Section 13.

6.3. Methods and material for containment and cleaning up

LIFEGUARD LIMESCALE REMOVER

Methods for cleaning up Do not touch or walk into spilled material. Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Flush contaminated area with plenty of water.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Avoid spilling. Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in closed original container at temperatures between 0°C and 30°C. Store away from incompatible materials (see Section 10).

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

PHOSPHORIC ACID

Long-term exposure limit (8-hour TWA): WEL 1 mg/m³

Short-term exposure limit (15-minute): WEL 2 mg/m³

WEL = Workplace Exposure Limit

Ingredient comments WEL = Workplace Exposure Limits

PHOSPHORIC ACID (CAS: 7664-38-2)

DNEL Workers - Inhalation; Long term local effects: 1 mg/m³
Workers - Inhalation; Short term local effects: 2 mg/m³
General population - Inhalation; Long term local effects: 0.73 mg/m³

ALKYL BENZYL DIMETHYL AMMONIUM CHLORIDE (CAS: 68424-85-1)

DNEL Workers - Inhalation; Long term systemic effects: 3.96 mg/m³
Workers - Dermal; Long term systemic effects: 5.7 mg/kg/day
General population - Inhalation; Long term systemic effects: 1.64 mg/m³
General population - Dermal; Long term systemic effects: 3.4 mg/kg/day
General population - Oral; Long term systemic effects: 3.4 mg/kg/day

PNEC - Fresh water; 0.0009 mg/l
- Marine water; 0.00096 mg/l
- Intermittent release; 0.00016 mg/l
- STP; 0.4 mg/l
- Sediment (Freshwater); 12.27 mg/kg
- Sediment (Marinewater); 13.09 mg/kg
- Soil; 7 mg/kg

8.2. Exposure controls

LIFEGUARD LIMESCALE REMOVER

Protective equipment



Appropriate engineering controls

Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles or face shield.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. It is recommended that gloves are made of the following material: Rubber (natural, latex).

Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures

Provide eyewash station and safety shower. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. Do not eat, drink or smoke when using this product.

Respiratory protection

No specific recommendations.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Blue.
Odour	Perfume.
Odour threshold	Not determined.
pH	pH (concentrated solution): 1.3
Melting point	Not determined.
Initial boiling point and range	Not determined.
Flash point	Not applicable.
Evaporation rate	Not determined.
Upper/lower flammability or explosive limits	Not applicable.
Vapour density	Not determined.
Relative density	Not determined.
Solubility(ies)	Soluble in water.
Partition coefficient	Not determined.
Auto-ignition temperature	Not applicable.
Decomposition Temperature	Not determined.
Viscosity	Not determined.

LIFEGUARD LIMESCALE REMOVER

Explosive properties	Not applicable.
Oxidising properties	Does not meet the criteria for classification as oxidising.

9.2. Other information

Other information	None.
--------------------------	-------

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	The following materials may react with the product: Alkalis. Chemically-active metals. Inorganic halides. Oxidising agents. Isocyanates.
-------------------	--

10.2. Chemical stability

Stability	Stable at normal ambient temperatures and when used as recommended.
------------------	---

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Not known.
---	------------

10.4. Conditions to avoid

Conditions to avoid	Avoid excessive heat for prolonged periods of time. Avoid contact with the following materials: Strong alkalis. Oxidising materials.
----------------------------	--

10.5. Incompatible materials

Materials to avoid	Strong oxidising agents. Acid-reactive materials. Alkalis. Inorganic halides. Isocyanates. chlorine-based bleaching agents
---------------------------	--

10.6. Hazardous decomposition products

Hazardous decomposition products	No known hazardous decomposition products.
---	--

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg)	8,693.69
-------------------------	----------

Acute toxicity - dermal

Notes (dermal LD₅₀)	Based on available data the classification criteria are not met.
---------------------------------------	--

Acute toxicity - inhalation

Notes (inhalation LC₅₀)	Based on available data the classification criteria are not met.
---	--

Skin corrosion/irritation

Skin corrosion/irritation	Corrosive to skin.
----------------------------------	--------------------

Serious eye damage/irritation

Serious eye damage/irritation	Risk of serious damage to eyes.
--------------------------------------	---------------------------------

Respiratory sensitisation

Respiratory sensitisation	Based on available data the classification criteria are not met.
----------------------------------	--

Skin sensitisation

Skin sensitisation	Based on available data the classification criteria are not met.
---------------------------	--

Germ cell mutagenicity

LIFEGUARD LIMESCALE REMOVER

Genotoxicity - in vitro	Does not contain any substances known to be mutagenic.
<u>Carcinogenicity</u>	
Carcinogenicity	Does not contain any substances known to be carcinogenic.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	Does not contain any substances known to be toxic to reproduction.
<u>Specific target organ toxicity - single exposure</u>	
STOT - single exposure	No information available.
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	No information available.
<u>Aspiration hazard</u>	
Aspiration hazard	Based on available data the classification criteria are not met.
<u>Inhalation</u>	
Inhalation	May cause damage to mucous membranes in nose, throat, lungs and bronchial system.
<u>Ingestion</u>	
Ingestion	May cause chemical burns in mouth, oesophagus and stomach.
<u>Skin contact</u>	
Skin contact	This product is corrosive.
<u>Eye contact</u>	
Eye contact	May cause chemical eye burns.

Toxicological information on ingredients.

ALKYL BENZYL DIMETHYL AMMONIUM CHLORIDE

Acute toxicity - oral

Acute toxicity oral (LD₅₀) 795.0
mg/kg)

Species Rat Rat

ATE oral (mg/kg) 795.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀) 1,560.0
mg/kg)

Species Rat

ATE dermal (mg/kg) 1,560.0

Skin corrosion/irritation

Animal data Primary dermal irritation index: 6.29

SECTION 12: Ecological Information

Ecotoxicity The product may affect the acidity (pH) of water which may have hazardous effects on aquatic organisms. Harmful to aquatic life with long lasting effects.

12.1. Toxicity

Ecological information on ingredients.

ALKYL BENZYL DIMETHYL AMMONIUM CHLORIDE

Acute aquatic toxicity

LIFEGUARD LIMESCALE REMOVER

LE(C)₅₀	0.01 < L(E)C ₅₀ ≤ 0.1
M factor (Acute)	10
Acute toxicity - fish	LC ₅₀ , < 96 hours: 1 mg/l,
Acute toxicity - aquatic invertebrates	EC ₅₀ , < 48 hours: 1 mg/l, Daphnia magna
Acute toxicity - aquatic plants	IC ₅₀ , < 48 hours: 1 mg/l, Freshwater algae
Acute toxicity - microorganisms	EC ₅₀ , 3 hours: 7.75 mg/l, Activated sludge
Acute toxicity - terrestrial	NOEC, 14 days: 1000 mg/l, mg/kg, Eisenia Fetida (Earthworm)
<u>Chronic aquatic toxicity</u>	
M factor (Chronic)	1

12.2. Persistence and degradability

Persistence and degradability The surfactant(s) contained in this product complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them at their direct request, or at the request of a detergent manufacturer.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not determined.

12.4. Mobility in soil

Mobility Mobile.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information When handling waste, the safety precautions applying to handling of the product should be considered. Waste is classified as hazardous waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Disposal methods Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID) 1760

UN No. (IMDG) 1760

LIFEGUARD LIMESCALE REMOVER

UN No. (ICAO) 1760

UN No. (ADN) 1760

14.2. UN proper shipping name

Proper shipping name (ADR/RID) CORROSIVE LIQUID, N.O.S. (CONTAINS PHOSPHORIC ACID , ALKYL BENZYL DIMETHYL AMMONIUM CHLORIDE)

Proper shipping name (IMDG) CORROSIVE LIQUID, N.O.S. (CONTAINS PHOSPHORIC ACID , ALKYL BENZYL DIMETHYL AMMONIUM CHLORIDE)

Proper shipping name (ICAO) CORROSIVE LIQUID, N.O.S. (CONTAINS PHOSPHORIC ACID , ALKYL BENZYL DIMETHYL AMMONIUM CHLORIDE)

Proper shipping name (ADN) CORROSIVE LIQUID, N.O.S. (CONTAINS PHOSPHORIC ACID , ALKYL BENZYL DIMETHYL AMMONIUM CHLORIDE)

14.3. Transport hazard class(es)

ADR/RID class 8

ADR/RID classification code C9

ADR/RID label 8

IMDG class 8

ICAO class/division 8

ADN class 8

Transport labels



14.4. Packing group

ADR/RID packing group II

IMDG packing group II

ADN packing group II

ICAO packing group II

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

EmS F-A, S-B

ADR transport category 2

Emergency Action Code 2X

Hazard Identification Number (ADR/RID) 80

Tunnel restriction code (E)

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

LIFEGUARD LIMESCALE REMOVER

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

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

EU legislation

Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work (as amended).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

Commission Directive 91/322/EEC of 29 May 1991 on establishing indicative limit values by implementing Council Directive 80/1107/EEC on the protection of workers from the risks related to exposure to chemical, physical and biological agents at work.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

General information	Only trained personnel should use this material.
Revision comments	This is first issue.
Revision date	15/06/2017
Revision	2
Supersedes date	09/06/2017
SDS number	21523
Hazard statements in full	H290 May be corrosive to metals. H302 Harmful if swallowed. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H319 Causes serious eye irritation. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.
Notes for Hazard Statements in Full	The full text for Hazard Statements in section 16 relates to the reference numbers in sections 2 and 3 and not necessarily the finished product classification.

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 process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.