# PRODUCT INFORMATION SHEET



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# LIME SCALE REMOVER

# FEATURES & APPLICATIONS

Unico Lime Scale Remover can be used on stainless steel and is safe enough to use for descaling kettles, urns and boilers. It is unperfumed so it will not taint surfaces.

Unico Lime Scale Remover will remove limescale and surface dirt from brick and stonework.

Unico Lime Scale Remover will also clean and descale toilet bowls and urinals.

# APPLICATION DETAILS

Task	Maximum Dilution How To Use		
Cleaning and descaling kettles, urns and boilers. Removing limescale and surface dirt on brick and stonework.	1 in 5 with water. (1 litre per 5 litres).	Pour over area then leave for 15 minutes ensuring complete coverage Rinse thoroughly with fresh water before use.	
Cleaning and descaling toilet bowls and urinals.	Use undiluted.	Pour over surface, ensuring complete coverage. Leave for 15 minutes, then flush or rinse with water.	

# PRODUCT AND PACKAGING INFORMATION

Appearance & Odour: Coloured liquid with mild odour.

Chemical Description: An aqueous solution of citric acid, surfactant and dye.

Packaging: 2 X 5 litres.

Shelf Life: 2 years.

#### **ENVIRONMENTAL INFORMATION** General Information: This product is expected to have very little ecological impact. **Environmental Checklist:** Biodegradable detergents CFC free Yes Yes Yes Solvent free Phosphate free Yes Acid/alkali free No Free of dyes/perfumes No Recyclable packaging Yes Biodegradable container No Biodegradable outer box Yes

FURTHER INFORMATION AVAILABLE ON REQUEST

# PRODUCT SAFETY DATA SHEET



# 3. COMPOSITION OF PRODUCT AND INFORMATION ON INGREDIENTS

#### 3.1 Mixtures

Concentrations below the concentration limit for classification in mixtures means that substance not reaching this does not need to be classified. Those that do not reach this concentration will still be included as indicative advice only.

Citric Acid		5 . 15%
CAS-No.: 77-92-9	EC No.: 201-069-1	
Classification (EC 1272/2008) Eye Damage 2 . H319	Skin Irritant. 2 - H315 Resp. Irritant - H335	
Alcohol ethoxylate		5 - 15%
CAS-No.: 68439-46-3	EC No.:	
Classification (EC 1272/2008) Eye Damage 1 . H318	Acute 4 . H302	

# PRODUCT SAFETY DATA SHEET



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NAME CI 18050 CI 19140		<b>RANGE</b> < 5.00% < 5.00%		<u>EINECS</u> 223-098-9 217-699-5	<u>CAS No</u> 3734-67- 1934-21-	6 Not d	<mark>c. Limit for Classif</mark> lefined lefined	ication
4. FIRST AID ME	ASURES							
4.1 Description of fir	st aid measures							
Ingestion		Rinse mouth thoroughly. Do not induce vomiting. Act immediately to prevent further irritation of mouth, throat and stom ach mucosa. Seek medical advice immediately						
Inhalation	No ill effects expected at concentrations used. If irritation is experienced go in open air and ventilate area. Mouth and throat may be rinsed with water.							
Eye Contact	Check for and	Check for and remove contact lenses. Rinse thoroughly with plenty of water for several minutes.						
Skin Contact	ntact Rinse affected area with water as instructed, if needed apply a cold compress to relieve irritation.							
4.2 Most Important	symptoms and eff	ects, both acute	<u>&amp; chro</u>	nic				
Where irritation of tis condition improves.								
4.3 Indication of an	y immediate medio	al attention and	specia	I treatment ne	eded_			
If irritation to the mo measures have been respiratory symptom	n carried out, seek ir	nmediate medical	advice	and have this				
A cold compress car	n be used to alleviate	e skin irritation.						
5. FIRE FIGHTIN	G MEASURES							
5.1 Suitable exting	uishing media			This product is not flammable. Use fire extinguishing media appropriate for surrounding area.				
Unsuitable extin	nguishing media			Not applicable	Э.			
5.2 Special hazards arising from the substance or mixture			Fumes may contain poisonous oxides of carbon and nitrogen (CO <sub>x</sub> & NO <sub>x</sub> ) if affected by fire.					
5.3 Advice for firefi	ghters			wear self-con		apparatus if he	in the area. Firefigl at generated break	
6. ACCIDENTAL	RELEASE MEA	SURES						
6.1 Personal preca	utions, protective e	quipment and er	nerger	ncy procedure	s			
Wear protective clot	hing and eyeshields							
6.2 Environmental	Precautions							
Avoid spillage into s	urface water drains,	soil / subsoil or ve	egetatio	on.				
6.3 Methods and m	aterial for containn	nent and cleaning	g up					
Hose away with plenty of water, diluting well, unless this would contaminate a water source or vegetation. In which case either collect, dilute as earlier and pour down waste drain (foul sewer) or absorb onto dry sand or similar material and dispose of safely as commercial waste.								
7.HANDLING AN	ID STORAGE							
7.1 Handling	Avoid con	act with skin and	eyes.	Do not mix wit	n any other che	micals. Avoid co	ntact with alkaline r	materials
7.2 Storage	7.2 Storage Store upright in original containers in a cool dry area out of the reach of children.							
7.3 Specific end use(s) Use only as directed by the front page of this document and the product label								
8. EXPOSURE C	ONTROLS/PER	SONAL PRO	ТЕСТ	ION				
8.1 Control Parame	eters							
Name		-	TWA .		STEL .	15 Min	Comments	]
Citric Acid (nuisand	ce dust only)	OEL 10mg/r		e / respirable 4mg/m <sup>3</sup>		-		1



Sensitization	No evidence
Mutagenic Effects	No information available
Reproductive Effects	Some limited evidence but not conclusive.
Developmental Effects	No information available.
Target Organs	No evidence but general internal tissue damage from ingestion
Endocrine Disruptor Info.	No information available.
Other Adverse Effects	The toxicological properties have not been fully investigated. See actual entry in RTECS for complete

#### **12. ECOLOGICAL INFORMATION**

information

# 12.1 Toxicity

# Ecotoxicity effects

Component	Toxicity to Fish LC-50, mg/l	Exposure Time, Hrs	Comments
Citric Acid	440-760 (fish)	96	

**12.3 Bioaccumulation Potential** 

With the current information available, when used for its intended purpose this product will not cause adverse

# PRODUCT SAFETY DATA SHEET

	effects in the environment.		
12.4 Mobility in soil	No information available but is biodegradable		
12.5 Aquatic Toxicity	With the current information available, this is judged to be low at the dilutions that exist.		
12.6 Other adverse effects	No information available		

## 13. DISPOSAL CONSIDERATIONS

#### 13.1. Waste treatment methods

Discharge used working solutions to drain is acceptable in small amounts due to the dilution of running water. Small amounts (less than 1 Litre) of unwanted concentrated product may be flushed with water to sewer with at least 15 minutes of running water.

Larger volumes of the concentrated product must be sent for disposal using a licensed waste disposal contractor.

Rinse out empty container with water and consign to normal waste.

## 14. TRANSPORT

Not regulated for Transport

# **15. REGULATORY INFORMATION**

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

#### EU legislation

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 GHS/CLP- Regulation (EC) No 1272/2008 classification, labelling & packaging of substances & mixtures.

#### Guidance

Workplace Exposure Limits EH40.

The National Institute for Occupational Safety and Health (NIOSH) register of Immediately Dangerous to Life or Health Concentrations (IDLH)

# **16. OTHER INFORMATION**

This product does not require any special training before use. Usage and handling instructions are mentioned on packaging and on the first page of this Safety Data Sheet .This health and safety information refers to the concentrated product and has been prepared assuming the intended described use is adhered to. Any unusual or novel use of this product is done without being assessed for the impact nor is it part of the considerations in this document.

Diluted solutions can be considered to be significantly less hazardous although they should always be handled with care.

#### Key literature references and sources for data

Safety Data Sheet, Misc. manufacturers.

CLP Classification - Table 3.1 List of harmonised classification and labelling of hazardous substances. CHIP Classification - Table 3.2 The list of harmonised classification and labelling of hazardous substances from Annex I to Directive 67/548/EEC.

ECHA - C&L Inventory database.

#### **Revision comments**

This product is now using classification from GHS/CLP - Regulation (EC) No 1272/2008 classification, labelling & packaging of substances & mixtures.

#### Revision date 01/05/2017

The Hazard Statements listed below in this Section No 16 relate to the Raw Materials (Ingredients) in the Product (as listed in Section 3) and NOT the product itself. For the Risk Phrases / Hazard Statements relating to this Product see Section 2.

#### Hazard statements in full

H302 Harmful if swallowed

H315 Causes skin irritation H319 Causes serious eye irritation H335 Possible respiratory irritation