



## SAFETY DATA SHEET

### Kettle Descaler

#### Section 1: Identification of the substance/mixture and of the company/undertaking

##### 1.1. Product identifier

**Product name:** Kettle descaler

**Product code:**

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

**Use of substance/ mixture:** Descaler for kettles

##### 1.3. Details of the supplier of the safety data sheet

**Company name:** LCR Chem Ltd

Units 5-6 Drumshambo Business Park,

Drumshanbo,

Co. Leitrim

**Tel:** 071 9640798

**Fax:** 071 9640798

**Email:** samlcr@eircom.net

##### Emergency telephone number

**Emergency tel:** +353 (0) 71 9640798 GMT 8:00-16:00

#### Section 2: Hazard identification

##### 2.1. Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]**

Acute toxicity, Oral (Category 4)

Skin corrosion (Category 1B)

Eye Damage (Category 1)

STOT SE (Category 3)

Metal Corrosion (Category 1)

**Classification according to EU Directives 67/548/EEC or 1999/45/EC**

Causes burns. Harmful in contact with skin and if swallowed.

For the full text of the R-phrases mentioned in this Section, see Section 16.

**2.2. Label elements**

**Labeling according Regulation (EC) No 1272/2008 [CLP]**

**Pictogram** GHS05: Corrosion



**Signal word;** Warning

**Hazard statement(s)**

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage

**Precautionary statement(s)**

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

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.

P405 Store locked up.

P501 Dispose of contents/container to an approved waste disposal site

**According to European Directive 67/548/EEC as amended.**

**Hazard symbol(s)**



**R-phrases(s)**

R21/22 Harmful in contact with skin and if swallowed

R34 Causes burns.

**S-phrases(s)**

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**2.3. Other hazards**

PBT: none

**Section 3: composition/information on ingredients**

Hazardous ingredients	Conc.	CAS No.	EINECS NO.	Symbols/Risk phrases
Phosphoric Acid	10-20%	7664-38-2	231-633-2	C: R34
Sodium lauryl ethoxy sulphate	0.5-1%	68585-34-2		Xi; R36/38

For the full text of the H-Statements and R-Phrases mentioned in this Section, see Section 16

**Section 4: First aid measures****4.1. Description of first aid measures**

**Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning.

**Eye contact:** Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

**Ingestion:** Do not induce vomiting. If conscious, give half a litre of water to drink immediately. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible.

**Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. If conscious, ensure the casualty sits or lies down. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital as soon as possible.

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

**Skin contact:** Irritation or pain may occur at the site of contact. There may be redness or whiteness of the skin in the area of exposure. Blistering may occur. Severe burns may occur.

**Eye contact:** There may be irritation and pain. The eyes may water profusely. Corneal burns may occur.

**Ingestion:** There may be soreness and redness of the mouth and throat. There may be difficulty swallowing. Corrosive burns may appear around the lips. Nausea and stomach pain may occur. There may be vomiting. Blood may be vomited.

**Inhalation:** There may be a feeling of tightness in the chest with shortness of breath. Exposure may cause coughing or wheezing. There may be congestion of the lungs causing severe shortness of breath. There may be loss of consciousness.

**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

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

No data available

### Section 5: fire-fighting measures

#### 5.1. Extinguishing media

**Extinguishing media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### 5.2. Special hazard arising from the substance or mixture

**Exposure hazards:** Corrosive. In combustion emits toxic fumes of carbon dioxide / carbon monoxide, as well as toxic fumes of sulphur oxides and oxides of phosphorus

#### 5.3. Advice for fire fighters

**Advice for fire fighters:** Wear self contained breathing apparatus for firefighting if necessary.

### Section 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Material can create slippery conditions underfoot

#### 6.2. Environmental precautions

Do not allow product to enter drains. Prevent further spillage if safe.

#### 6.3. Methods and materials for containment and cleaning up

Soak up with inert absorbent material (dry earth or sand) and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

#### 6.4. Reference to other sections

See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information

### Section 7: Handling and storage

#### 7.1. Precautions for safe handling

Ensure there is sufficient ventilation of the area. Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

#### 7.2. Conditions for safe storage, including any incompatibles

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

#### 7.3. Specific end use(s):

**Specific end use(s):** A part from the uses mentioned in section 1.2 no other specific uses are stipulated

### Section 8: Exposure control/ Personal protection

#### 8.1. Control parameters

##### Workplace exposure limits:

Component	CAS-NO.	Value	Control parameters	Basis
Phosphoric acid	7664-38-2	OELV – 8 hrs (TWA)	1 mg/m <sup>3</sup>	Ireland. List of Chemical Agents and Occupational Exposure Limit Values- Schedule 1
	Remarks	Indicative Occupational Exposure Limit Value		
		OELV -15 min (STEL)	2 mg/m <sup>3</sup>	Ireland. List of Chemical Agents and Occupational Exposure Limit Values- Schedule 1
		Indicative Occupational Exposure Limit Value		
		TWA	1 mg/m <sup>3</sup>	Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
		Indicative Occupational Exposure Limit Value		
		STEL	2 mg/m <sup>3</sup>	Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
		Indicative Occupational Exposure Limit Value		

## 8.2. Exposure controls

**Respiratory protection:** Ensure adequate ventilation of the working area.

**Hand protection:** Chemical resistant gloves (PVC)

**Eye protection:** Approved safety goggles.

**Protective equipment:** Wear chemical protective clothing

## Section 9: Physical and chemical properties

**State:** Viscous Liquid

**Colour:** Blue

**Odour:** Aromatic

**Evaporation rate:** -

**Oxidising:** -

**Solubility in water:** Soluble

**Viscosity:** -

**Boiling point/range °C:** N/A

**Melting point/ range °C:** N/A

**VOC g/l:**

**pH:** 2

## 9.2. Other information

**Other information:** no data available

## Section 10: Stability and reactivity

### 10.1. Reactivity

Stable under recommended transport or storage conditions

### 10.2. Chemical stability

Stable under normal conditions

### 10.3. Possibility of hazardous reactions:

Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

### 10.4. Conditions to avoid

Excessive heat and moist air

## 10.5. Incompatible materials

Strong acids, Strong bases, finely powdered metals

## 10.6. Hazardous decomposition products

In combustion emits toxic fumes of carbon dioxide / carbon monoxide. In combustion emits toxic fumes of sulphur oxides.

## Section 11: Toxicological information

### 11.1. Information on Toxicological effect

#### Toxicity values:

Substance	Species	Test	Value	Units
Phosphoric acid	Rat	Oral LD <sub>50</sub>	1550-3500	mg/kg
Phosphoric acid	Rabbit	Dermal LD <sub>50</sub>	1260	mg/kg
Phosphoric acid	Rat	Inhalation LD <sub>50</sub>	25.5	mg/kg
Phosphoric acid	Mouse	Inhalation LD <sub>50</sub>	25.5	mg/kg
Sodium lauryl ethoxy sulphate	Rat	Oral LD <sub>50</sub>	1600	mg/kg

#### Skin corrosion/irritation

Substance	Effect	Route	Basis
Phosphoric acid	Skin corrosion / irritation	Skin	Hazardous: Calculated Rabbit 24 h
Phosphoric acid	Serious eye damage	Eye	Hazardous: Calculated Rabbit 24 h
Sodium lauryl ethoxy sulphate	irritation	Skin	Hazardous: Calculated Rabbit 24 h
Sodium lauryl ethoxy sulphate	Serious eye damage	Eye	Hazardous: Calculated Rabbit 24 h

### Symptoms/ routes of exposure

**Skin contact:** Irritation or pain may occur at the site of contact. There may be redness or whiteness of the skin in the area of exposure. Blistering may occur. Severe burns may occur.

**Eye contact:** There may be irritation and pain. The eyes may water profusely. Corneal burns may occur.

**Ingestion:** There may be soreness and redness of the mouth and throat. There may be difficulty swallowing. Corrosive burns may appear around the lips. Nausea and stomach pain may occur. There may be vomiting. Blood may be vomited.

**Inhalation:** There may be a feeling of tightness in the chest with shortness of breath. Exposure may cause coughing or wheezing. There may be congestion of the lungs causing severe shortness of breath. There may be loss of consciousness.

**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

## **Section 12: Ecological information**

### **12.1. Eco-toxicity**

Eco-toxicity values: No available data

### **12.2. Persistence and degradability**

All surfactants are readily degradable

### **12.3. Bio-accumulative potential**

Bio-accumulative potential: no data available

### **12.4. Mobility in soil**

Mobility: mobile

### **12.5. Results of PBT and vPvB assessment**

PBT identification: no data available

### **12.6. Other adverse effects**

Other adverse effects: Potentially toxic to aquatic life

## **Section 13: Disposal considerations**

Dispose of in compliance with all local and national regulations

### **13.1 Waste treatment methods**

For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used. Local and national regulations.

## **Section 14: Transport information**

This product does not require a classification for transport

## **Section 15: Regulatory Information**

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

### **15.2. Chemical Safety Assessment**

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier



## Section 16: Other information

### Text of H-code(s) mentioned in Section 2 and 3:

Acute toxicity, Oral (Category 4)	H302:	Harmful if swallowed
Skin corrosion (Category 1B)	H314:	Causes severe skin burns and eye damage
Eye Damage (Category 1)	H318:	Causes serious eye damage
STOT SE (Category 3)	H335:	May cause respiratory irritation
Metal Corrosion (Category 1)	H290:	May be corrosive to metals

### Text of R-phrases mentioned in Section 2 and 3:

R21/22	Harmful in contact with skin and if swallowed
R34	Causes burns.
R36/38	Irritating to eyes and skin

### Legal disclaimer:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.