

# ***Kamco Limited***

## **MATERIAL SAFETY DATA SHEET**

### **SCALEBREAKER DSC**

Revision date: April 2016

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

##### **1.1. Product identifier**

**Product name:** Scalebreaker DSC

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

**Use of substance / mixture:** Cleaning liquid for modular boiler heat exchangers.

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

**Company name:** Kamco Ltd  
Unit 9, Curo Park  
Frogmore  
St Albans  
Herts  
AL2 2DD

**Tel:** 01727 875020

**Fax:** 01727 875335

**Email:** info@kamco.co.uk

##### **1.4. Emergency telephone number**

#### **Section 2: Hazards identification**

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

**Classification under CHIP:** Xi; R41

**Classification under CLP:** Eye damage 1 - H318

**Most important adverse effects:**

##### **2.2. Label elements**

**Label elements under CLP:** EC Number 231-665-7

**Hazard statements:** H318 Causes serious eye damage.

**Signal words:** Danger

**Hazard pictograms:**



**Precautionary statements:**

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 / doctor.

### 2.3. Other hazards

**PBT:** This substance is not classified as PBT or vPvB according to current EU criteria.

## Section 3: Composition/information on ingredients

### 3.2. Mixtures

**Hazardous ingredients:** Sodium hydrogen sulphate

<i>EINECS</i>	<i>CAS</i>	<i>CHIP Classification</i>	<i>CLP Classification</i>	<i>Percent</i>
231-665-7	7681-38-1		H318, Eye Dam	<30

## Section 4: First aid measures

### 4.1. Description of first aid measures

- Skin contact:** Remove contaminated clothing immediately and wash skin with soap and water. Continue to rinse for at least 15 minutes. Get medical attention.
- Eye contact:** Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue to rise.
- Ingestion:** Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Rinse mouth thoroughly with water. Give plenty of water to drink. Do not induce vomiting. Get medical attention immediately.
- Inhalation:** 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.

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

- Skin contact:** Prolonged skin contact may cause redness and irritation.
- Eye contact:** Cause serious eye damage.
- Ingestion:** May cause discomfort if swallowed.
- Inhalation:**

**Delayed / immediate effects:**

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

**Immediate / special treatment:** No specific recommendations. If in doubt get medical attention promptly.

## Section 5: Fire-fighting measures

### 5.1. Extinguishing media

**Extinguishing media:** Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

### 5.2. Special hazards arising from the substance or mixtures

**Exposure hazards:** Oxides of the following substances: Sulphur.

### 5.3. Advice for fire-fighters

**Advice for fire-fighters:** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## 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:** Do not discharge into drains or watercourses or onto the ground. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

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

**Clean-up procedures:** Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated material and remove from the area as soon as possible. Flush contaminated area with plenty of water. Collect and place in suitable waste disposal containers and seal securely. For waste disposal see Section 13.

### 6.4. Reference to other sections

**Reference to other sections:** Wear protective clothing as described in Section 8 of this safety data sheet.

## 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 tightly-closed, original container in a dry, cool and well-ventilated place.

**Storage Class:** Chemical storage.

### 7.3. Specific end use(s)

**Specific end uses(s):** Cleaning liquid for modular boiler heat exchangers.

## Section 8: Exposure controls/personal protection

### 8.1. Control parameters

**Ingredient comments** No exposure limits known for ingredients

### 8.2. Exposure controls

**Protective equipment:**



**Engineering measures:** Provide adequate general and local exhaust ventilation.

**Eye / face protection:** Chemical splash goggles.

**Hand protection:** Wear protective gloves. The most suitable glove should be chosen in consultation with the glove supplier / manufacturer, who can provide information about 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 rubber apron. Wear rubber footwear.

**Hygiene measures:** Provide eyewash station. When using do not eat, drink or smoke.

**Respiratory protection:** If ventilation is inadequate, suitable respiratory protection must be worn.

## Section 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**State:** Liquid.

**Colour:** Clear dark blue.

**Odour:** Slight sweet smell.

**Solubility in water:** Miscible with water.

**pH:** pH of 10% solution: circa 0.9

### 9.2. Other information

## Section 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity:** Avoid contact with alkalis. Scalebreaker DSC will react with these, generating heat.  
Do not mix with oxidising agents.  
Attacks some metals, liberating flammable hydrogen gas.

### 10.2. Chemical stability

**Chemical stability:** Stable at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

**Hazardous reactions:** Does not decompose when used and stored as recommended.

### 10.4. Conditions to avoid

**Conditions to avoid:** Listed above in section 10.1.

### 10.5. Incompatible materials

**Materials to avoid:**

### 10.6. Hazardous decomposition products

**Haz. Decomp. Products:**

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

Relevant effects for solution:		
Effect	Route	Basis
No data available		

### Symptoms / routes of exposure

- Skin contact:** Prolonged and frequent contact may cause redness and irritation.
- Eye contact:** Risk of serious damage to eyes.
- Ingestion:** May cause stomach pain or vomiting.
- Inhalation:** Irritating to respiratory system.

**Delayed / immediate effects:**

## Section 12: Ecological information

### 12.1. Toxicity

**Toxicity:** No data available

### 12.2. Persistence and degradability

**Persistence and degradability:** No data available

### 12.3. Bioaccumulative potential

**Bioaccumulative potential:** No data available

### 12.4. Mobility in soil

**Mobility:** No data available

### 12.5. Results of PBT and vPvB assessment

**PBT identification:** This substance is not classified as PBT or vPvB according to current EU criteria.

### 12.6. Other adverse effects

**Other adverse effects:** Solution is acidic.

## Section 13: Disposal considerations

### 13.1. Waste treatment methods

**General information:** 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:** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

## Section 14: Transport information



**14.1. UN number****UN No. (ADR/RID/ADN):****UN No. (IMDG):****NU No. (ICAD)****14.2. UN proper shipping name:****Proper shipping name** Scalebreaker FX**14.3. Transport hazard class(es):****ADR/RID/ADN Class** Class 8: Corrosive substances.**ADR Label No.** 8**IMDG Class** 8**ICAO Class / Division** 8**14.4. Packing group****ADR/RID/ADN packing group:** III**IMDG packing group:** III**ICAD packing group** III**14.5. Environmental hazards****Environmental hazardous substances / marine pollutant:** No**14.6. Special precautions for user****EMS:****Emergency Action Code:****Hazard No. (ADR)****Section 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations:** The chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).**EU legislation:** 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).  
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).**Guidance Notes:** CHIP for everyone HSG228.  
Safety Data Sheets for Substances and Preparations.  
Approved Classification and labelling Guide (Sixth edition) L131.**Water hazard classification:** WGK 1**Inventory Information:** EINECS**Section 16: Other information**

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**Other information:**

**Phrases used in sections 2 and 3:** R41 Risk of serious damage to eyes.  
H318 Causes serious eye damage.  
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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.

**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. Kamco Limited shall not be held liable for any damage resulting from handling or from contact with the above product.