

# ***Kamco Limited***

## **MATERIAL SAFETY DATA SHEET**

### **SOOTBREAKER boiler cleaning powder**

Revision date: 12/08/2015

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

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

**Product name:** SOOTBREAKER

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

**Use of substance / mixture:** Boiler cleaning powder

##### **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:** O; Oxidising

R8: Contact with combustible material may cause fire.

**Classification under CLP:** Ox. Sol. 2 H272 May intensify fire; oxidiser.

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

**Label elements under CLP:** The substance is classified and labelled according to the CLP regulation.

**Hazard statements:** H272 May intensify fire; oxidiser.

**Signal words:** Danger

**Hazard pictograms:**



GSH03

**Precautionary statements:** P221 : Take any precaution to avoid mixing with combustibles.  
P210 : Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P220 : Keep/Store away from clothing/combustible materials.  
P280 : Wear protective gloves/protective clothing/eye protection/face protection.  
P370+P378 : In case of fire: Use for extinction: CO2, powder or water spray.  
P501 : Dispose of contents/container in accordance with local/regional/national/international regulations.

### 2.3. Other hazards

**Other hazards:** Not applicable.

## Section 3: Composition/information on ingredients

### 3.1. Chemical characterisation: Substances

<b>CAS No. Description:</b>	7757-79-1 potassium nitrate
<b>EC number:</b>	231-818-8
<b>CAS No. Description:</b>	7631-99-4 sodium nitrate
<b>EC number:</b>	231-554-3

## Section 4: First aid measures

### 4.1. Description of first aid measures

**Skin contact:** Immediately wash with water and soap and rinse thoroughly.  
**Eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.  
**Ingestion:** Do not induce vomiting; call for medical help immediately.  
**Inhalation:** Supply fresh air; consult doctor in case of complaints.

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

**Acute:** No further relevant information available.

**Delayed:** No further relevant information available.

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

**Immediate / special treatment:** No further relevant information available.

## Section 5: Fire-fighting measures

### 5.1. Extinguishing media

**Extinguishing media:** CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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

**Unusual Fire & Explosion hazards:** During heating or in case of fire poisonous gases are produced. Nitrogen oxides (NOx)

### 5.3. Advice for fire-fighters

**Protective equipment:** Mount respiratory protective device.  
Wear self-contained respiratory protective device

**Additional information** Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.  
Cool endangered receptacles with water spray.

See Section 9 for Flammable Properties including Flash Point and Flammable (Explosive) Limits

## Section 6: Accidental release measures

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

**Personal precautions:** Mount respiratory protective device. Wear protective equipment. Keep unprotected persons away.

### 6.2. Environmental precautions

**Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

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

**Clean-up procedures:** Pick up mechanically.

### 6.4. Reference to other sections

**Reference to other sections:** See Section 7 for information on safe handling.  
See Section 8 for information on personal protection eqp.  
See Section 13 for disposal information.

## Section 7: Handling and storage

### 7.1. Precautions for safe handling

**Handling requirements:** Keep receptacles tightly sealed.  
Prevent formation of dust.

**Information about fire - and explosion protection:** Keep ignition sources away - Do not smoke.  
Keep respiratory protective device available.

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

**Requirements to be met by storerooms:** Dry storeroom below 50 deg C.

**Information about storage in one common storage facility:** Do not store together with alkalis (caustic solutions).  
Store away from reducing agents.  
Do not store together with acids.  
Store away from flammable substances.

**Further information about storage conditions:** None

### 7.3. Specific end use(s)

**Specific end uses(s):** See note 1.2

## Section 8: Exposure controls/personal protection

### 8.1. Control parameters

### 8.2. Exposure controls

**General protective and hygienic measures:** Wash hands before breaks and at the end of work.

**Respiratory protection:** Filter P2  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

**Skin/Hand protection:**



Protective gloves  
EN374, Butyl rubber BR, Neoprene gloves, Rubber gloves.

**Eye/Face protection:**



EN166 Tightly sealed goggles.

**Other protective Equipment** Protective work clothing.

## Section 9: Physical and chemical properties

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

**Appearance:** Grey / green free flowing powder.

**Physical Form:** Powder

**Odour:** n/a

**pH:** n/a

**Melting/Freezing Point:** ca. 330 deg C.

**Initial Boiling Point/Range:** n/a

**Flash Point:** n/a

**Relative Density (water=1):**

**Solubility (ies):** ca. 94%

**Auto-ignition Temperature:**

**Decomposition Temperature:** > 400 deg C

**Explosive Properties:**

**Oxidising Properties:**

### 9.2. Other information

**Pour point:** n/a

## Section 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity:**

### 10.2. Chemical stability

**Chemical stability:** No decomposition if used according to specifications.

### 10.3. Possibility of hazardous reactions

**Hazardous reactions:** Reacts with reducing agents.  
Reacts with acids.  
Reacts with organic substances.

### 10.4. Conditions to avoid

**Conditions to avoid:**

**10.5. Incompatible materials**

**Materials to avoid:**

**10.6. Hazardous decomposition products**

**Hazardous decomposition products:** Nitrogen oxides.

**Section 11: Toxicological information**

**11.1. Information on toxicological effects**

**LD /LC50 values relevant for classification:** Oral / LD50 / 3750mg/kg (rat)

**Symptoms / routes of exposure**

**Aspiration Hazard:**

**Skin Corrosion/Irritation:**

**Serious Eye Damage/Irritation:** No irritant effect.

**Signs and Symptoms:**

**Skin Sensitisation:** No irritant effect.

**Respiratory Sensitisation:**

**Section 12: Ecological information**

**12.1. Toxicity**

**Aquatic toxicity:** EC 50 (24u) 490mg/l (daphnia magna) (OECD 202)  
LC 50 (96u) 191 mg/l (Poecilia reticulata)

**12.2. Persistence and degradability**

**Persistence and degradability:** No further relevant information available.

**Persistence per IOPC Fund definition:**

**12.3. Bioaccumulative potential**

**Bioaccumulative potential:** No further relevant information available.

**12.4. Mobility in soil**

**Mobility:** No further relevant information available.

**General notes:** Water hazard class 1: slightly hazardous for water.  
Do not allow product to reach ground water, water course or sewage system.

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

**PBT or vPvB identification:** Not applicable.

**12.6. Other adverse effects**

**Other adverse effects:** No further relevant information available.

**Section 13: Disposal considerations**

### 13.1. Waste treatment methods

**Disposal operations:** Must not be disposed with household garbage.  
Do not allow product to reach sewage system.

**Disposal of packaging:** Disposal must be made according to official regulations.

## Section 14: Transport information

**UN number:** UN1499

**UN proper shipping name:** SOOTBREAKER  
"Contains potassium & sodium nitrates"

**Transport hazard class label:**



**Class:** 5.1 Oxidising substances

**Packing Group:** III

**Environmental hazards:** Not applicable.

**Special precautions for user:** Warning: Oxidising substance.  
Danger code (Kemler): 50  
EMS Number: F-A,S-Q

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

**Transport / Additional information:** ADR Limited quantities (LQ): 5kg  
ADR Transport category: 3  
ADR Tunnel restriction code: E

**UN "Model Regulation":** UN1486, Potassium Nitrate, 5.1, III

## Section 15: Regulatory information

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

**Labelling to Regulation (EC) No 1272/2008:** GHS label elements.

**Water hazard class:** Water Hazard Class 1: slightly hazardous for water

### 15.2. Chemical Safety Assessment

**Chemical safety assessment:** A chemical Safety Assessment has not been carried out.

## Section 16: Other information

**List of relevant hazard statements:**

**Legal disclaimer:** The above information is based on the present state of our knowledge of the product at the time of publication. It is given in good faith, no warranty is implied with respect to the quality or specification of the product. The user must satisfy himself that the product is entirely suitable for his purpose.