

# MATERIAL SAFETY DATA SHEET - SOOTBREAKER powder variants

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### **1. Product name / description:**

**SOOTBREAKER** boiler cleaning powder.

### **2. Composition / information on ingredients:**

Blend of oxidising agents and catalysts.

Potassium nitrate < 77% CAS no: 7757-79-1.

Sodium nitrate < 6% CAS no.: 7631-99-4.

Other: CAS nos.; 7704-34-9; 497-19-8; 1309-48-4; 1332-40-7.

### **3. Hazards identification:**

Oxidising agent. Contact with combustible material may cause fire.

### **4. FIRST AID MEASURES:**

Eyes: Irrigate thoroughly with water for at least 10 minutes.

Skin: Wash with soap and plenty of water. Remove contaminated clothing and wash before re-use.

Ingestion: Wash out mouth with water, and give water to drink. **DO NOT INDUCE VOMITING.** If patient feels unwell seek medical attention.

Inhalation: Unreacted product in powder form - inhalation improbable. Seek medical attention if patient has symptoms apparently due to inhalation.

### **5. Fire fighting measures:**

Extinguishing media: Water spray, carbon dioxide, foam, or BCF.

Dampen product with water to prevent combustion. Contact with combustible material may cause fire.

### **6. Accidental release measures:**

Sweep up spilled substance, but avoid making dust. Dispose of by incineration. Wash the spillage site with large amounts of water.

### **7. Handling & storage:**

SOOTBREAKER variants are oxidising agents, and should be stored away from combustible materials, oxidisable materials, and acids. Use good general ventilation. Store in closed containers in a dry place, below 50°C. Keep away from open flames.

### **8. Exposure controls / personal protection:**

Hand protection: Wear PVC or rubber gloves.

Eye protection: Wear goggles if handling loose powder.

### **9. Physical & chemical properties:**

- Appearance: Free flowing grey / green powder.
- Specific gravity: 1.15
- Solubility in water: ca. 94%.
- pH of 1% solution: n/a
- Melting point: ca. 330°C.

### **10. Stability & reactivity:**

Stability: Stable, absorbs moisture.

Materials to avoid: Combustible materials and acids.

Hazardous decomposition products: Decomposes at high temperatures, evolving nitrogen oxides and small quantities of sulphur oxides. Avoid breathing fumes from combustion products.

<p><b>11. Toxicological information:</b>  <u>Eyes:</u> Dust may cause irritation to eyes.  <u>Inhalation:</u> Material may irritate mucous membranes and the upper respiratory tract.</p>
<p><b>12. Ecological information:</b>  <u>Ecotoxicity:</u> May present small hazard to aquatic life.  <u>Persistence:</u> Substantially biodegradable.</p>
<p><b>13. Disposal considerations:</b>  Sweep up and dispose of by incineration.</p>
<p><b>14. Transport information:</b>  <u>IMDG information:</u></p> <ul style="list-style-type: none"> <li>• UN no: 1499</li> <li>• Packing group: III</li> <li>• Class item: 5.1</li> </ul> <p><u>ADR/RID information:</u></p> <ul style="list-style-type: none"> <li>• Subst. ID no: 1499</li> <li>• Class no: 5.1, 22</li> </ul>
<p><b>15. Regulatory information:</b>  <u>Classification:</u> Oxidising.</p> <ul style="list-style-type: none"> <li>• <u>RISK PHRASES:</u>  R8 Contact with combustible material may cause fire.  R25 Toxic if swallowed.</li> <li>• <u>SAFETY PHRASES:</u>  S17 Keep away from combustible material.  S24/25 Avoid contact with skin and eyes.  S45 In case of accident or if you feel unwell, seek medical advice immediately.</li> </ul>
<p><b>16. Other information:</b>  There are no dangers associated with the correct use of SOOTBREAKER variants, but as the product must be combustible in order to function, it should be kept in sealed packs when not in use, and kept away from flames. It is safe to store within the boiler house. The product will only combust at a controlled rate, and requires sustained intense heat for this to occur.</p>
<p><b>Legal disclaimer:</b> 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.</p>

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