



SAFETY DATA SHEET

SOOTMASTER™ POWDER

Remove soot from oil and gas-fired burners

SECTION 1 – PRODUCT AND COMPANY INFORMATION

Product Name

Sootmaster™ Powder

Product Codes

68322

Chemical Family

Inorganic

Use

Soot remover for oil & gas burners

Manufacturer's Name

The RectorSeal Corporation

2601 Spenwick Drive

Houston, Texas 77055 USA

Date of Validation

January 23, 2015

Date of Preparation

June 27, 2013

HMIS Codes

Health 1

Flammability 0

Reactivity 1

PPI B

Emergency Telephone No.

Chemtrec 24 Hours

(800)-424-9300 USA

(703)-527-3887 International

Technical Service Telephone No.

(800)-231-3345 or (713)-263-8001

SECTION 2 – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

OSHA Hazards

Oxidizer, Carcinogen, Target Organ Effect

Target Organs

Blood, Central nervous system

GHS Classification

Oxidizing solids (Category 3)

Acute toxicity, Oral (Category 5)

Acute aquatic toxicity (Category 3)

GHS CLASSIFICATION

Physical Hazards:

None

Health Hazards

Acute Toxicity:

- Oral: Not Classified
- Dermal: Not Classified
- Inhalation: Not Classified
- Skin Corrosion/Irritation: Not Classified
- Serious Eye Damage/Eye Irritation: Not Classified
- Respiratory or Skin Sensitization: Not Classified
- Germ Cell Mutagenicity: Not Classified
- Carcinogenicity: Not Classified
- Reproductive Toxicology: Not Classified
- Target Organ Systemic Toxicity - Single Exposure: Not Classified
- Target Organ Systemic Toxicity - Repeated Exposure: Not Classified

Aspiration Toxicity: Not Classified

ENVIRONMENTAL HAZARDS

- Hazardous to the Aquatic Environment: Not Classified
- Acute aquatic toxicity: Not Classified
- Chronic aquatic toxicity: Not Classified
- Bioaccumulation potential: Not Classified
- Rapid degradability: Not Classified

GHS Label elements, including precautionary statements



GHS02: Oxidizing

Signal Word: **Warning**

Hazard Statements:

- H272 - May intensify fire; oxidiser.
- H303 - May be harmful if swallowed.
- H402 - Harmful to aquatic life.

Precautionary Statements:

- P102 - Keep out of reach of children.
- P220 - Keep/Store away from clothing/ combustible materials.
- P264 - Wash hands thoroughly after handling.

Summary Of Acute Hazards

Harmful if swallowed, inhaled or absorbed through skin. Causes irritation to skin, eyes and respiratory tract.

INHALATION

Causes irritation to the respiratory tract. Symptoms may include coughing, shortness of breath.

EYE CONTACT

Causes irritation, redness, and pain.

SOOTMASTER™ POWDER

SKIN CONTACT

Causes skin irritation. Prolonged contact may cause skin burns.

INGESTION

Toxic. Can irritate the mouth, esophagus, stomach, etc. Excessive amounts affect the blood and blood vessels.

Signs and symptoms of nitrite poisoning include intense cyanosis, nausea, dizziness, vomiting, collapse, spasms of abdominal pain, rapid heart beat, irregular breathing, coma, convulsions, and death due to circulatory collapse.

Estimated lethal dose 1 to 2 grams.

SUMMARY OF CHRONIC HAZARDS

Under some circumstances methemoglobinemia occurs in individuals when the nitrate is converted by bacteria in the stomach to nitrite. Nausea, vomiting, dizziness, rapid heart beat, irregular breathing, convulsions, coma, and death can occur should this conversion take place. Chronic exposure to nitrites may cause anemia and adverse effects to kidney.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Individuals with pre-existing or chronic diseases of the eyes, skin and respiratory system may have increased susceptibility to excessive exposure.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

| | |
|-----------------------|-------------------|
| Ingredient: | Potassium Nitrate |
| Percentage by weight: | 35 |
| CAS Number: | 7757-79-1 |
| EC#: | 231-818-8 |

SECTION 4 – FIRST AID MEASURES

| | |
|---------------|--|
| If inhaled: | If overcome by exposure, remove victim to fresh air immediately. Give oxygen or artificial respiration as needed. Obtain emergency medical attention. Prompt action is essential. |
| If on skin: | Wash with soap and water. If irritation occurs, seek medical attention. |
| If in eyes: | Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists. occasionally. Call a physician immediately. |
| If swallowed: | If swallowed, call a physician or poison control immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person. |

SECTION 5 – FIRE FIGHTING MEASURES

Extinguishing Media

Water or water spray in early stages of fire. Foam may also be used, but avoid the use of multi-purpose dry chemical fire extinguishers where contact with sodium nitrite may occur. Water streams may scatter molten material.

Special Fire Fighting Procedures: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. Decomposition of potassium nitrite may leave a caustic residue.

Unusual Fire And Explosion Hazards: Contact with oxidizable substances may cause extremely violent combustion. May explode when heated to 537°C (1000°F) or on severe impact or on contact with cyanides, ammonium salts, cellulose, lithium, potassium plus ammonia, and sodium thiosulfate.

Further Information

Substance is a strong oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition. Increases the flammability of any combustible material.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Steps To Be Taken In Case Material Is Released Or Spilled: Remove all sources of ignition. Wear appropriate personal protective equipment as specified in Section 8. Clean up spills in a manner that does not disperse dust into the air. Use non-sparking tools and equipment. Reduce airborne dust and prevent scattering by moistening with water. Pick up spill for recovery or disposal and place in a closed container.

SECTION 7 – HANDLING AND STORAGE

Precautions To Be Taken In Handling And Storing: Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage and moisture. Isolate from any source of heat or ignition. Avoid storage on wood floors. Separate from incompatibles, combustibles, organic or other readily oxidizable materials. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

Other Precautions: Avoid prolonged or repeated contact with skin or clothing.

KEEP OUT OF REACH OF CHILDREN.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

| Ingredient | Units |
|--------------------------|-------|
| Potassium Nitrate | |
| ACGIH TLV: | N/D |
| OSHA PEL: | N/D |

Respiratory Protection (Specify Type): Normally none required. Use NIOSH/MSHA approved particulate respirator for nuisance dust.

Ventilation – Local Exhaust: Acceptable.

Special: N/A

Mechanical (General): Acceptable

Other: N/A

Protective Gloves: Natural rubber latex.

Eye Protection: Safety glasses (ANSI Z-87.1 or equivalent)

Other Protective Clothing Or Equipment: Coveralls recommended.

Work/Hygienic Practices: Where use can result in skin contact, wash exposed areas thoroughly before eating, drinking, smoking, or leaving work area. Launder contaminated clothing before reuse.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|--------------------------------|
| Boiling point: | N/A |
| Specific gravity (H ₂ O = 1): | Solid |
| Vapor pressure (mmHg): | N/A |
| Melting point: | N/A |
| Vapor Density (Air = 1): | N/A |
| Evaporation rate (Ethyl Acetate = 1): | N/A |
| Appearance/Odor: | Yellow powder/No distinct odor |
| Solubility in water: | Soluble |
| Volatile Organic Compounds (VOC) Content (theoretical percentage by weight): | 0% or (0 g/L) |
| Flash point: | None |
| Lower explosion limit: | None |
| Upper explosion limit: | None |

SECTION 10 – STABILITY AND REACTIVITY

Stability: This material is stable in closed containers at room temperature. Material slowly oxidizes to potassium nitrate when exposed to air. Very hygroscopic.

Conditions To Avoid: Heat, flame, ignition sources, shock, friction, incompatibles.

Incompatibility (Materials To Avoid): Reacts vigorously with reducing materials and is incompatible with many substances including ammonium salts, cellulose, cyanides, lithium, potassium plus ammonia, sodium thiosulfate, aminoguanide salts, butadiene, phthalic acid, phthalic anhydride, reductants, sodium amide, sodium disulphite, sodium thiocyanate, urea, wood and organic matter.

Hazardous Decomposition Products: Oxides of nitrogen.

Hazardous Polymerization: Will not occur.

SECTION 11 – TOXICOLOGY INFORMATION

Chronic Health Hazards

No ingredient in this product is an IARC, NTP or OSHA Lister carcinogen.

Toxicology Data

Ingredient Name

Potassium Nitrate

Oral-Rat LD50: 3750 mg/kg

Inhalation-Rat LC50: N/D

SECTION 12 – ECOLOGICAL INFORMATION

Ecological Data

| | |
|------------------------------------|--------------------------|
| Ingredient Name: | Potassium Nitrate |
| Food Chain Concentration Potential | N/D |
| Waterfowl Toxicity | N/D |
| BOD | N/D |
| Aquatic Toxicity | N/D |

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Classification: Non-regulated solid waste

Disposal Method: Landfill

Dispose of container and unused contents in accordance with federal, state and local requirements.

SECTION 14 – TRANSPORTATION INFORMATION

| | |
|---------------|--|
| DOT: | UN1479, Oxidizing solid, n.o.s.(potassium nitrate), Class 5.1, PG III, LTD QTY, ERG#140 |
| Ocean (IMDG): | UN1479, Oxidizing solid, n.o.s. (potassium nitrate), Class 5.1, PG III, LTD QTY, EMS-No: F-A, S-Q |
| Air (IATA): | UN1479, Oxidizing solid, n.o.s.(potassium nitrate), Class 5.1, PG III, LTD QTY, ERG#140 |

SECTION 15 – REGULATORY INFORMATION

Regulatory Data

| | |
|------------------|--------------------------|
| Ingredient Name: | Potassium Nitrate |
| SARA 313 | No |
| TSCA Inventory | Yes |
| CERCLA RQ | N/A |
| RCRA Code | N/A |

SECTION 16 – OTHER INFORMATION

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). The information herein is given in good faith, but no warranty, expressed or implied is made.

Consult RectorSeal for further information: (713) 263-8001