Section 1 – Product and Company Information

Product Name
Surgemaster™

Product Codes
68742

Chemical Family
Inorganic

Use
Boiler water treatment

Manufacturer’s Name
The RectorSeal Corporation
2601 Spenwick Drive
Houston, Texas 77055 USA

Date of Validation
January 23, 2015

Date of Preparation
October 8, 2012

Section 2 – Hazards Identification

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

HMIS Codes
Health 1
Flammability 0
Reactivity 0
PPI B
GHS Label elements, including precautionary statements

Pictogram: None
Signal Word: None
Hazard Statements: None
Precautionary Statements:
  P102 - Keep out of reach of children.
  P264 - Wash hands thoroughly after handling.

Summary Of Acute Hazards
Repeated inhalation may cause respiratory irritation. Avoid inhaling powder.

Route Of Exposure, Signs And Symptoms

INHALATION
  Dust may cause irritation to lungs and respiratory tract. Avoid inhaling powder.

EYE CONTACT
  Contact may cause eye irritation.

SKIN CONTACT
  None known.

INGESTION
  May cause irritation of the digestive tract.

SUMMARY OF CHRONIC HAZARDS
  None known.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE
  Individuals with pre-existing or chronic diseases of the eyes and respiratory system may have increased susceptibility to excessive exposure.

Section 3 – Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Percentage By Weight</th>
<th>CAS Number</th>
<th>EC#</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amorphous Silica</td>
<td>59.98</td>
<td>7631-86-9</td>
<td>231-545-4</td>
</tr>
<tr>
<td>Sodium Phosphate</td>
<td>9.98</td>
<td>68915-31-1</td>
<td>272-808-3</td>
</tr>
<tr>
<td>Silicon Dioxide</td>
<td>6.00</td>
<td>7631-86-9</td>
<td>231-545-4</td>
</tr>
</tbody>
</table>
**SECTION 4 – FIRST AID MEASURES**

If inhaled: Remove to fresh air; administer oxygen, or artificial respiration if needed. Seek immediate medical attention.

If on skin: Wash with soap and water.

If in eyes: Immediately flush with large amounts of water. If irritation occurs, seek medical attention.

If swallowed: If swallowed, call a physician 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**

Non-combustible. Use agents appropriate for surrounding fires.

**Special Fire Fighting Procedures:** Wear self-contained breathing apparatus (SCBA) and other protective clothing.

**Unusual Fire And Explosion Hazards:** None known.

**SECTION 6 – ACCIDENTAL RELEASE MEASURES**

**Steps To Be Taken In Case Material Is Released Or Spilled:** Sweep up to prevent footing hazard.

**SECTION 7 – HANDLING AND STORAGE**

**Precautions To Be Taken In Handling And Storing:** Store in dry place.

KEEP OUT OF REACH OF CHILDREN.

**SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amorphous Silica</td>
<td></td>
</tr>
<tr>
<td>ACGIH TLV:</td>
<td>10 mg/m3</td>
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<tr>
<td>OSHA PEL:</td>
<td>6 mg/m3</td>
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<tr>
<td>Sodium Phosphate</td>
<td></td>
</tr>
<tr>
<td>ACGIH TLV:</td>
<td>N/D</td>
</tr>
<tr>
<td>OSHA PEL:</td>
<td>N/D</td>
</tr>
<tr>
<td>Silicon Dioxide</td>
<td></td>
</tr>
<tr>
<td>ACGIH TLV:</td>
<td>30 mg/m3</td>
</tr>
<tr>
<td>OSHA PEL:</td>
<td>0.1 mg/m3</td>
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### Section 9 – Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling point</td>
<td>N/A</td>
</tr>
<tr>
<td>Specific gravity (H2O = 1)</td>
<td>Solid</td>
</tr>
<tr>
<td>Vapor pressure (mmHg)</td>
<td>N/A</td>
</tr>
<tr>
<td>Melting point</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Density (Air = 1)</td>
<td>N/A</td>
</tr>
<tr>
<td>Evaporation rate (Ethyl Acetate = 1)</td>
<td>N/A</td>
</tr>
<tr>
<td>Appearance/Odor</td>
<td>Greenish White Powder/Mild odor</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>Insoluble</td>
</tr>
<tr>
<td>Volatile Organic Compounds (VOC) Content</td>
<td>0% or (0 g/L)</td>
</tr>
<tr>
<td>(theoretical percentage by weight)</td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td>None</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>N/D</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>N/D</td>
</tr>
</tbody>
</table>

### Section 10 – Stability and Reactivity

**Stability:** Stable

**Conditions To Avoid:** None known.

**Incompatibility (Materials To Avoid):** None known.

**Hazardous Decomposition Products:** None known.

**Hazardous Polymerization:** Will not occur.

**Respiratory Protection (Specify Type):** None required.

**Ventilation – Local Exhaust:** N/A

**Special:** N/A

**Mechanical (General):** N/A

**Other:** N/A

**Protective Gloves:** N/A

**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 11 – Toxicology Information

Chronic Health Hazards

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

Toxicology Data

Ingredient Name

Amorphous Silica
  Oral-Rat LD50: 3160 mg/kg
  Inhalation-Rat LCL0: 50 mg/m3/6H/2Y-I

Sodium Phosphate
  Oral-Rat LD50: N/D
  Inhalation-Rat LC50: 3053 mg/kg

Silicon Dioxide
  Intraperitoneal-Rat LDLo: 400 mg/kg
  Inhalation-Rat LC50: N/D

Section 12 – Ecological Information

Ecological Data

Ingredient Name: Amorphous Silica
  Food Chain Concentration Potential: N/D
  Waterfowl Toxicity: N/D
  BOD: N/D
  Aquatic Toxicity: N/D

Ingredient Name: Sodium Phosphate
  Food Chain Concentration Potential: N/D
  Waterfowl Toxicity: N/D
  BOD: N/D
  Aquatic Toxicity: N/D

Ingredient Name: Silicon Dioxide
  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:** Approved landfill

Waste from this product is not considered hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Dispose of in accordance with federal, state, and local regulation regarding pollution.

**SECTION 14 – TRANSPORTATION INFORMATION**

- **DOT:** Non-regulated
- **Ocean (IMDG):** Non-regulated
- **Air (IATA):** Non-regulated
- **WHMIS (Canada):** Non-regulated

**SECTION 15 – REGULATORY INFORMATION**

**Regulatory Data**

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Amorphous Silica</th>
</tr>
</thead>
<tbody>
<tr>
<td>SARA 313</td>
<td>N/A</td>
</tr>
<tr>
<td>TSCA Inventory</td>
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</tr>
<tr>
<td>CERCLA RQ</td>
<td>N/A</td>
</tr>
<tr>
<td>RCRA Code</td>
<td>N/A</td>
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</table>

<table>
<thead>
<tr>
<th>Ingredient Name</th>
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<tbody>
<tr>
<td>SARA 313</td>
<td>N/A</td>
</tr>
<tr>
<td>TSCA Inventory</td>
<td>Yes</td>
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<tr>
<td>SARA 313</td>
<td>N/A</td>
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<tr>
<td>TSCA Inventory</td>
<td>Yes</td>
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<td>CERCLA RQ</td>
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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