Section 1 - Product and Company Information

Product name
SootSpray

Product Codes
68342

Chemical Family
Organic/Inorganic

Use
Boiler Water Treatment

Manufacturer's Name
RectorSeal LLC
2601 Spenwick Drive
Houston, Texas 77055 USA

Date of validation
June 11, 2020

Date of Preparation
June 11, 2020

Section 2 - Hazards Identification

EMERGENCY OVERVIEW
OSHA Physical Hazards
Flamable Aerosol (Category 2)

GHS CLASSIFICATION
Acute toxicity, Oral,(Category 4)
Dermal: Not Classified
Inhalation: Not Classified
Skin Corrosion/Irritation: (Category 1)
Serious Eye Damage/Eye Irritation: (Category 1)
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
Specific target organ toxicity - single exposure (Category 3), Central nervous system
**GHS Label elements, including precautionary statements**

Signal Word: Danger  
GHS04: Gas Cylinder  
GHS07: Exclamation Mark  
GHS05: Corrosive

**Hazard Statements:**  
H280 - Contains gas under pressure; may explode if heated.  
H302 - Harmful if swallowed.  
H314 - Causes severe skin burns and eye damage  
H335 + H336 - May cause respiratory irritation, and drowsiness or dizziness.

**Precautionary Statements:**  
**Prevention**  
P102 - Keep out of reach of children.  
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
P211 - Do not spray on an open flame or other ignition source.  
P251 - Pressurized container; do not pierce or burn, even after use.  
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.  
P264 - Wash skin thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P271 - Use only outdoors or in a well-ventilated area.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

**Response**  
P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
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.  
P363 - Wash contaminated clothing before reuse.

**Storage**  
P410+412 - Protect from sunlight. Do not expose to temperatures exceeding 50C/122F.  
P403 - Store in a well ventilated place.  
P405 - Store locked up.

**Disposal**  
P501 - Dispose of contents/ container to an approved waste disposal plant.

**SUMMARY OF ACUTE HAZARDS**

Irritation to eyes, nose, and throat; drowsiness, narcosis, tremors, and other CNS effects at high concentrations. Skin irritation, dermatitis, and defatting.

**ROUTE OF EXPOSURE, SIGNS AND SYMPTOMS**

**INHALATION**
Nasal and respiratory irritation, dizziness, narcosis, headache, nausea, CNS depression, and unconsciousness.
SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

**Ingredient:** Glycol Butyl Ether
Percentage by weight: 1-4
CAS#: 111-76-2
EINEC#: 203-905-0

**Ingredient:** Tripropylene glycol methyl ether
Percentage by weight: 1-10
CAS#: 25498-49-1
EINEC#: 247-045-4

**Ingredient:** Isopropyl Alcohol
Percentage by weight: 1-10
CAS#: 67-63-0
EINEC#: 200-661-7

**Ingredient:** Lithium Hydroxide
Percentage by weight: 1-10
CAS#: 1310-66-3
EINEC#: 215-183-4

**Ingredient:** 2-Amino-2-methyl-1-propanol
Percentage by weight: 1-5
CAS#: 124-68-5
EINEC#: 204-709-8

**Ingredient:** Neodecanoic acid
Percentage by weight: 20-30
CAS#: 26896-20-8
EINEC#: 248-093-9
**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**: Immediately wash with soap and water. Remove and wash any contaminated clothing.
- **If in EYES**: Flush eyes with large amounts of water for 15 minutes. Get medical attention if irritation persists.
- **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**: Foam, dry chemical, CO2, or water fog.
- **SPECIAL FIRE FIGHTING PROCEDURES**: Wear self-contained full face piece breathing apparatus and full body protective clothing. Hazardous decomposition products possible (see Section 10). Evacuate area. Dike area as run-off may create additional environmental contamination.
- **UNUSUAL FIRE AND EXPLOSION HAZARDS**: Aerosol cans are under pressure - exposure to temperatures above 120 F can cause bursting or "rocketing" of cans.

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**
Remove all sources of ignition. Use absorbent materials to prevent footing hazard and to contain. Ventilate area with natural or explosion-proof, forced air ventilation. Avoid flushing into sewers, drains, waterways, and soil. Wear protective clothing and respiratory protection during cleanup.

**SECTION 7 - HANDLING AND STORAGE**

- **PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING**: Shake well before using. Keep away from heat, sparks and open flames. Prolonged exposure to direct sunshine or storage above 120 F may cause can to burst. Do not puncture or incinerate can.
- **OTHER PRECAUTIONS**: Avoid prolonged or repeated contact with skin or clothing. Empty containers may contain residues; treat as if full and observe all products precautions. Do not reuse empty containers.
SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredient | Units
--- | ---
Glycol Butyl Ether | <br>
ACGIH TLV | 25 ppm <br>
OSHA PEL | 25 ppm <br>
Glycol Ether | <br>
ACGIH TLV | N/D <br>
OSHA PEL | N/D <br>
Isopropyl Alcohol | <br>
ACGIH TLV | 400 ppm <br>
OSHA PEL | 400 ppm <br>
OSHA STEL | 500 ppm <br>
Nitrogen | <br>
ACGIH TLV | N/D <br>
OSHA PEL | N/D <br>

RESPIRATORY PROTECTION (SPECIFY TYPE): In confined, poorly ventilated areas, use NIOSH/MSHA approved air purifying or supplied air respirators during soldering operations until fumes have dissipated.

VENTILATION - LOCAL EXHAUST: Acceptable

SPECIAL: Explosion proof

MECHANICAL (GENERAL): Acceptable

OTHER: N/A

PROTECTIVE GLOVES: Wear rubber gloves.

EYE PROTECTION: Safety glasses (ANSI Z-87.1 or equivalent), OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Chemical resistant 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: >212 F (>100 C) @ 760mm Hg

Specific Gravity (H_2O = 1): 1.12

Vapor Pressure (mm Hg): N/D

Melting Point: N/A

Vapor Density (Air = 1): <1

Evaporation Rate (Ethyl Acetate = 1): >1

Appearance/Odor: Clear Liquid / Mild Odor

Solubility In Water: Soluble

Flash Point: 53 F (12 C) SETA CC

Lower Explosion Limit: N/D

Upper Explosion Limit: N/D

VOLATILE ORGANIC COMPOUNDS (VOC) Content (Theoretical Percentage By Weight): 14% or (157 g/L)

NFPA AEROSOL LEVEL: <br>
LOWER EXPLOSION LIMIT: 2.5 <br>
UPPER EXPLOSION LIMIT: 12
**SECTION 10 - STABILITY AND REACTIVITY**

**Stability:** Stable

**Conditions to Avoid:** Do not store in temperatures above 120 F.

**Incompatibility (Materials to Avoid):** Oxidizers, acids and bases.

**Hazardous Decomposition Products:** CO, CO, and fragmented hydrocarbons.

**Hazardous Polymerization:** Will not occur.

**SECTION 11 - TOXICOLOGY INFORMATION**

**CHRONIC HEALTH HAZARDS**

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

**Toxicology Data**

**Ingredient Name**

**Glycol Butyl Ether**

Oral-Rat adult LD50: 470 mg/kg
Inhalation-Rat LC50: 2900 mg/m3

**Glycol Ether**

Oral-Rabbit, adult LDLo: 3300 mg/kg
Inhalation-Rat LC50: N/D

**Isopropyl Alcohol**

Oral-Rabbit, adult LD50: 5045 mg/kg
Inhalation-Rat LCLo: 16,000 ppm 4H

**Nitrogen**

Oral-Rabbit, adult LD50: N/D
Inhalation-Rat LC50: 160 mg/m3/6H

**SECTION 12 - ECOLOGICAL INFORMATION**

**Ecological Data**

**Ingredient Name**

**Glycol Butyl Ether**

Food Chain Concentration Potential: None
WATERFOWL TOXICITY: N/A
BOD: 26%
AQUATIC TOXICITY: 1000 ppm/24 hr/brine shrimp/TLm

**Glycol Ether**

Food Chain Concentration Potential: N/D
WATERFOWL TOXICITY: N/D
BOD: N/D
AQUATIC TOXICITY: N/D
Isopropyl Alcohol

Food Chain Concentration Potential: None
WATERFOWL TOXICITY: N/A
BOD: 133%
AQUATIC TOXICITY: 900-1100 ppm/24 hr/chub

Nitrogen

Food Chain Concentration Potential: None
WATERFOWL TOXICITY: None
BOD: None
AQUATIC TOXICITY: None

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Classification: Aerosols

Disposal Method: Empty containers can be disposed of in trash. Full containers should be depressurized to separate liquid phase. The liquid phase is considered a D001 ignitable waste and should be incinerated. Dispose of all liquid waste in accordance with all local, state and federal regulations.

SECTION 14 - TRANSPORTATION INFORMATION

DOT: Limited Quantity or (LTD-QTY)
OCEAN (IMDG): UN1950, Aerosols, 2.2, Ltd Qty or Limited Quantity, EmS No. F-D, S-U
AIR (IATA): UN1950, Aerosols, 2.2, ERG#126

SECTION 15 - REGULATORY INFORMATION

Regulatory Data

Ingredient Name

Glycol Butyl Ether
SARA 313: No
TSCA Inventory: Yes
CERCLA RQ: N/A
RCRA Code: N/A

Glycol Ether
SARA 313: No
TSCA Inventory: Yes
CERCLA RQ: N/A
RCRA Code: N/A

Isopropyl Alcohol
SARA 313: No
TSCA Inventory: Yes
CERCLA RQ: N/A
RCRA Code: N/A

Nitrogen
SARA 313: No
TSCA Inventory: Yes
CERCLA RQ: N/A
RCRA Code: N/A
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