1. Product and Company Identification

Product Name: Sentry Natural Defense Natural Flea & Tick Carpet Powder  
CAS #: Mixture  
Product use: Kills and repels fleas, ticks and other indoor pests  
Manufacturer: Sergeant's Pet Care Products, Inc.  
2625 South 158th Plaza  
Omaha, NE 68130-1770 US  
Phone: 1-800-224-7387  
Fax: 1-402-938-7099  
Emergency Phone: 1-800-781-4738  
CHEMTREC: 1-800-424-9300

<table>
<thead>
<tr>
<th>LEGEND</th>
<th>HMIS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>/ 1</td>
</tr>
<tr>
<td>Flammability</td>
<td>0</td>
</tr>
<tr>
<td>Physical Hazard</td>
<td>0</td>
</tr>
<tr>
<td>Personal Protection</td>
<td>B</td>
</tr>
</tbody>
</table>

2. Hazards Identification

Emergency overview: CAUTION
Hazards to humans
May cause sensitization by skin contact.  
Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

Potential short term health effects

Routes of exposure: Eye, Skin contact, Skin absorption, Inhalation, Ingestion.

Eyes: Causes irritation.

Skin: Contact with skin can cause irritation and allergic reaction (sensitization) in some individuals. May be absorbed through the skin.

Inhalation: Dusts of this product may cause irritation of the nose, throat, and respiratory tract.

Ingestion: May cause stomach distress, nausea or vomiting.

Target organs: Eyes. Respiratory system. Skin.

Chronic effects: Prolonged or repeated exposure can cause drying, defatting and dermatitis.

Signs and symptoms: Symptoms may include redness, edema, drying, defatting and cracking of the skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbonic acid calcium salt (1:1)</td>
<td>471-34-1</td>
<td>20 - 40</td>
</tr>
<tr>
<td>Calcium silicate</td>
<td>1344-95-2</td>
<td>10 - 20</td>
</tr>
<tr>
<td>Oils of cinnamon</td>
<td>8007-80-5</td>
<td>1 - 2.5</td>
</tr>
<tr>
<td>Oils, clove</td>
<td>8000-34-8</td>
<td>1 - 2.5</td>
</tr>
<tr>
<td>Oils, lemongrass</td>
<td>8007-02-1</td>
<td>1 - 2.5</td>
</tr>
<tr>
<td>Oils, thyme</td>
<td>8007-46-3</td>
<td>1 - 2.5</td>
</tr>
<tr>
<td>Oils, peppermint</td>
<td>8006-90-4</td>
<td>0.1 - 1</td>
</tr>
</tbody>
</table>
4. First Aid Measures

First aid procedures

Eye contact
Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Skin contact
Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists.

Inhalation
Remove affected person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

Ingestion
Do not induce vomiting. Rinse mouth with water, then drink one or two glasses of water. Obtain medical attention. Never give anything by mouth if victim is unconscious, or is convulsing.

Notes to physician
Symptoms may be delayed.

General advice
If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

5. Fire Fighting Measures

Flammable properties
Not flammable by OSHA criteria.

Extinguishing media

Suitable extinguishing media
Dry chemical. Carbon dioxide. Foam.

Unsuitable extinguishing media
Not available

Protection of firefighters
Specific hazards arising from the chemical
Not available

Protective equipment for firefighters
Firefighters should wear full protective clothing including self contained breathing apparatus.

Hazardous combustion products
May include and are not limited to: Oxides of carbon.

Explosion data

Sensitivity to mechanical impact
Not available

Sensitivity to static discharge
Not available

6. Accidental Release Measures

Personal precautions
Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.

Methods for containment
Prevent entry into waterways, sewers, basements or confined areas.

Methods for cleaning up
Before attempting clean up, refer to hazard data given above. Use broom or dry vacuum to collect material for proper disposal without raising dust. Rinse area with water. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice.

7. Handling and Storage

Handling
Use good industrial hygiene practices in handling this material.

Storage
Keep out of reach of children. Store in a closed container away from incompatible materials.
8. Exposure Controls / Personal Protection

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium silicate</td>
<td>ACGIH-TLV</td>
</tr>
<tr>
<td></td>
<td>TWA: 10 mg/m3</td>
</tr>
<tr>
<td></td>
<td>OSHA-PEL</td>
</tr>
<tr>
<td></td>
<td>TWA: 15 mg/m3</td>
</tr>
<tr>
<td>Carbonic acid calcium salt (1:1)</td>
<td>ACGIH-TLV</td>
</tr>
<tr>
<td></td>
<td>TWA: 10 mg/m3</td>
</tr>
<tr>
<td></td>
<td>OSHA-PEL</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td>Oils of cinnamon</td>
<td>ACGIH-TLV</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td></td>
<td>OSHA-PEL</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td>Oils, clove</td>
<td>ACGIH-TLV</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td></td>
<td>OSHA-PEL</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td>Oils, lemongrass</td>
<td>ACGIH-TLV</td>
</tr>
<tr>
<td></td>
<td>Mist: 5 mg/m3</td>
</tr>
<tr>
<td></td>
<td>OSHA-PEL</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td>Oils, peppermint</td>
<td>ACGIH-TLV</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td></td>
<td>OSHA-PEL</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td>Oils, thyme</td>
<td>ACGIH-TLV</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td></td>
<td>OSHA-PEL</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
</tbody>
</table>

Engineering controls

Personal protective equipment

Eye / face protection: Wear safety glasses with side shields.
Hand protection: Rubber gloves. Confirm with a reputable supplier first.
Skin and body protection: As required by employer code.
Respiratory protection: Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. General hygiene considerations: Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

9. Physical & Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Powder</td>
</tr>
<tr>
<td>Color</td>
<td>off-white</td>
</tr>
<tr>
<td>Form</td>
<td>Powder</td>
</tr>
<tr>
<td>Odor</td>
<td>Citrus. / minty</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>Physical state</td>
<td>Solid</td>
</tr>
<tr>
<td>pH</td>
<td>Not available</td>
</tr>
</tbody>
</table>
10. Chemical Stability & Reactivity Information

Chemical stability
Stable under recommended storage conditions.

Conditions to avoid
Do not mix with other chemicals.

Incompatible materials
Acids. Oxidizers.

Hazardous decomposition products
May include and are not limited to: Oxides of carbon.

Possibility of hazardous reactions
Hazardous polymerization does not occur.

11. Toxicological Information

Component analysis - LC50

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium silicate</td>
<td>Not available</td>
</tr>
<tr>
<td>Carbonic acid calcium salt (1:1)</td>
<td>Not available</td>
</tr>
<tr>
<td>Oils of cinnamon</td>
<td>Not available</td>
</tr>
<tr>
<td>Oils, clove</td>
<td>Not available</td>
</tr>
<tr>
<td>Oils, lemongrass</td>
<td>Not available</td>
</tr>
<tr>
<td>Oils, peppermint</td>
<td>Not available</td>
</tr>
<tr>
<td>Oils, thyme</td>
<td>Not available</td>
</tr>
</tbody>
</table>

Component analysis - Oral LD50

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>LD50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium silicate</td>
<td>3400 mg/kg rat</td>
</tr>
<tr>
<td>Carbonic acid calcium salt (1:1)</td>
<td>6450 mg/kg rat</td>
</tr>
<tr>
<td>Oils of cinnamon</td>
<td>2800 mg/kg rat</td>
</tr>
<tr>
<td>Oils, clove</td>
<td>2650 mg/kg rat</td>
</tr>
<tr>
<td>Oils, lemongrass</td>
<td>&gt; 5000 mg/kg rat</td>
</tr>
<tr>
<td>Oils, peppermint</td>
<td>2426 mg/kg rat</td>
</tr>
<tr>
<td>Oils, thyme</td>
<td>2840 mg/kg rat</td>
</tr>
</tbody>
</table>

Effects of acute exposure

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye</td>
<td>Causes irritation.</td>
</tr>
<tr>
<td>Skin</td>
<td>Contact with skin can cause irritation and allergic reaction (sensitization) in some individuals. May be absorbed through the skin.</td>
</tr>
</tbody>
</table>
Inhalation
Dusts of this product may cause irritation of the nose, throat, and respiratory tract.

Ingestion
May cause stomach distress, nausea or vomiting.

Sensitization
Contains potential skin sensitizers.

Chronic effects
Non-hazardous by OSHA criteria.

Carcinogenicity
Non-hazardous by OSHA criteria.

ACGIH - Threshold Limits Values - Carcinogens
Calcium silicate 1344-95-2 A4 - Not Classifiable as a Human Carcinogen (nonfibrous)

Mutagenicity
Non-hazardous by OSHA criteria.

Reproductive effects
Non-hazardous by OSHA criteria.

Teratogenicity
Non-hazardous by OSHA criteria.

12. Ecological Information
Ecotoxicity
Components of this product have been identified as having potential environmental concerns.

Environmental effects
Not available

Aquatic toxicity
Not available

Persistence / degradability
Not available

Bioaccumulation / accumulation
Not available

Partition coefficient
Not available

Mobility in environmental media
Not available

Chemical fate information
Not available

13. Disposal Considerations
Waste codes
Not available

Disposal instructions
Review federal, provincial, and local government requirements prior to disposal.

Waste from residues / unused products
Not available

Contaminated packaging
Not available

14. Transport Information
Department of Transportation (DOT)
Not regulated as dangerous goods.

15. Regulatory Information

US Federal regulations
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
Sergeant's Pet Care Products, Inc. represents that this product qualifies for exemption from registration under the Federal Insecticide Fungicide, and Rodenticide Act (FIFRA). This product has not been registered by the United States Environmental Protection Agency. EPA exemption #25B-6B.
All components are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA Hazardous Substances - Not applicable.

Occupational Safety and Health Administration (OSHA)
29 CFR 1910.1200 hazardous chemical
Yes

CERCLA (Superfund) reportable quantity
None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance
No
Section 311 hazardous chemical Yes

Clean Air Act (CAA) Not available
Clean Water Act (CWA) Not available
Safe Drinking Water Act (SDWA) Not available
Drug Enforcement Agency (DEA) Not available
Food and Drug Administration (FDA) Not available

Inventory status

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s).

State regulations

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

- **U.S. - Massachusetts - Right To Know List**
  - Calcium silicate 1344-95-2 Present

- **U.S. - Minnesota - Hazardous Substance List**
  - Calcium silicate 1344-95-2 Present (dust)

- **U.S. - Pennsylvania - RTK (Right to Know) List**
  - Calcium silicate 1344-95-2 Present

- **U.S. - Rhode Island - Hazardous Substance List**
  - Calcium silicate 1344-95-2 Toxic

**16. Other Information**

Disclaimer

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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