ORTHO ANIMAL B GON ALL PURPOSE ANIMAL REPELLENT READY-TO-USE

1. Product and company identification

MSDS # : 320000004610
EPA Registration Number: EXEMPT

2. Hazards identification

Physical state : liquid [YELLOW LIQUID]
Color : Yellowish.
Odor : Cinnamon
Signal word : CAUTION!
OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Emergency Overview
Keep out of reach of children.
Avoid contact with eyes and prolonged contact with skin.
To reduce contact with skin, wear gloves when handling.

Potential acute health effects

Inhalation : No known significant effects or critical hazards.
Ingestion : Harmful if swallowed.
Skin : No known significant effects or critical hazards.
Eyes : No known significant effects or critical hazards.
Target organs : Contains material which causes damage to the following organs:
                    skin
                    stomach

Potential chronic health effects : See section 11 for more information.

Over-exposure signs/symptoms

Inhalation : No specific data.
Ingestion : No specific data.
Skin : No specific data.
Eyes : No specific data.
Medical conditions aggravated by over-exposure : None known.
See toxicological information (Section 11)

3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kaolin</td>
<td>1332-58-7</td>
<td>&gt;1 - &lt;=3</td>
</tr>
<tr>
<td>Sodium chloride (NaCl)</td>
<td>7647-14-5</td>
<td>&gt;1 - &lt;=3</td>
</tr>
<tr>
<td>Oils, mint, Mentha arvensis piperascens Extractives and their physically modified derivatives. Mentha arvensis, var. piperascens, L.</td>
<td>68917-18-0</td>
<td>&gt;1 - &lt;=3</td>
</tr>
</tbody>
</table>

4. First aid measures

- **Eye contact**: Hold eye open and rinse slowly and gently with water for 15 to 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**: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

- **Inhalation**: Move 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**: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Never give anything by mouth to an unconscious person.

- **Notes to physician**: No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5. Fire-fighting measures

- **Flammability of the product**: In a fire or if heated, a pressure increase will occur and the container may burst.

- **Extinguishing media**
  - **Suitable**: Use an extinguishing agent suitable for the surrounding fire.
  - **Not suitable**: None known.

- **Special exposure hazards**: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

- **Hazardous thermal decomposition products**: Decomposition products may include the following materials: halogenated compounds, metal oxide/oxides.

- **Special protective equipment for fire-fighters**: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

- **Personal precautions**: Evacuate surrounding areas. Keep unnecessary and unprotected personnel...
from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Put on appropriate personal protective equipment (see Section 8).

**Environmental precautions**

No specific hazard.

**Methods for cleaning up**

**Small spill**

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**Large spill**

Stop leak if without risk. Dike spill area and do not allow product to reach soil, surface water, ground water or sewers. Contain and collect spillage with non-combustible, absorbent material and place in container for disposal.

**7. Handling and storage**

**Handling**

Avoid inhalation or contact with skin, eyes or clothing. Avoid container breakage. Do not contaminate water sources when disposing of equipment washwater or rinsate. Keep out of lakes, stream or ponds. Keep out of reach of children.

**Storage**

Keep from freezing. Store in original container in a cool, dry, well-ventilated area inaccessible to children and pets. Do not contaminate food or feedstuffs.

**8. Exposure controls/personal protection**

**Occupational exposure limits**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Exposure limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kaolin</td>
<td>OSHA PEL (1993-06-30) PEL: Permissible Exposure Level 15 mg/m³ Form: Total dust OSHA PEL (1993-06-30) PEL: Permissible Exposure Level 5 mg/m³ Form: Respirable fraction NIOSH REL (1994-06-01) Time Weighted Average (TWA) 10 mg/m³ Form: Total NIOSH REL (1994-06-01) Time Weighted Average (TWA) 5 mg/m³ Form: Respirable fraction ACGIH TLV (1996-05-18) Notes: The agent (mixture, or exposure circumstance) is not classifiable as to its carcinogenicity to humans. 1996 Adoption Refers to Appendix A -- Carcinogens. TLV-TWA: Threshold Limit Value - Time weighted average PEL: Permissible Exposure Level 2 mg/m³ Form: Respirable fraction: means that size fraction of the airborne particulate deposited in the gas-exchange region of the respiratory tract and collected during air sampling with a particle size-selective device that, (a) meets the ACGIH particle size-selective sampling criteria for airborne particulate matter; and (b) has the cut point of 4 µm at 50 per cent collection efficiency.</td>
</tr>
</tbody>
</table>

**Report version:** Re

**Date of issue/Date of revision:** Validity date ***. **Date of previous issue:** 11/26/2013
Consult local authorities for acceptable exposure limits.

**Recommended monitoring procedures**
If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

**Engineering measures**
Use adequate ventilation to keep the airborne concentrations below the recommended exposure standard.

**Hygiene measures**
Wash thoroughly with soap and water after handling. Remove and launder contaminated clothing before reuse.

**Personal protection**

**Respiratory**
No special respiratory protection required. If ventilation is inadequate to keep the airborne concentrations below the recommended exposure standard wear appropriate respiration protection.

**Hands**
Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

**Eyes**
Protective eyewear is not required, but may be used in situations were contact is expected.

**Skin**
No special protective clothing is required.

**Environmental exposure controls**
Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### 9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Physical state</th>
<th>liquid [YELLOW LIQUID]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash point</td>
<td>&gt; 200 °C (392.00 °F)</td>
</tr>
<tr>
<td>Burning time</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Flammable limits</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Density</td>
<td>1.01 g/cm³</td>
</tr>
<tr>
<td>Color</td>
<td>Yellowish.</td>
</tr>
<tr>
<td>Odor</td>
<td>Cinnamon</td>
</tr>
<tr>
<td>pH</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Boiling/condensation point</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Melting/freezing point</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Relative density</td>
<td>1.01</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Volatility</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Solubility</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

### 10. Stability and reactivity
Chemical stability : The product is stable.
Conditions to avoid : No specific data.
Incompatible materials : No specific data.
Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

11. Toxicological information

Acute toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kaolin</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>&gt; 2,000 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Sodium chloride (NaCl)</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>3,000 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Oils, mint, Mentha arvensis piperascens Extractives and their physically modified derivatives. Mentha arvensis, var. piperascens, L</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>1,240 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Oils, mint, Mentha arvensis piperascens Extractives and their physically modified derivatives. Mentha arvensis, var. piperascens, L</td>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>&gt; 5,000 mg/kg</td>
<td>-</td>
</tr>
</tbody>
</table>

Conclusion/Summary : No known significant effects or critical hazards.

Irritation/Corrosion

| Skin | May cause skin irritation. |
| Eyes | May cause eye irritation. |
| Respiratory | Non-irritating |

Sensitizer

| Skin | Not sensitizing |
| Respiratory | Not sensitizing |

Chronic toxicity

Conclusion/Summary : No known significant effects or critical hazards.

Carcinogenicity

Conclusion/Summary : No known significant effects or critical hazards.

Classification

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>EPA</th>
<th>NIOSH</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kaolin</td>
<td>A4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Mutagenicity

Conclusion/Summary : No known significant effects or critical hazards.

Teratogenicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
</table>

Version: Date of issue/Date of revision:  Validity date***. Date of previous issue: 11/26/2013
Conclusion/Summary No known significant effects or critical hazards.

**Reproductive toxicity**
Conclusion/Summary No known significant effects or critical hazards.

### 12. Ecological information

**Ecotoxicity**
Conclusion/Summary No known significant effects or critical hazards.

**Aquatic ecotoxicity**
Conclusion/Summary No known significant effects or critical hazards.

**Persistence/degradability**
Conclusion/Summary No known significant effects or critical hazards.

**Partition coefficient: n-octanol/water**
Conclusion/Summary No known significant effects or critical hazards.

**Other adverse effects**
Conclusion/Summary No known significant effects or critical hazards.

### 13. Disposal considerations

Waste disposal Disposal should be in accordance with applicable regional, national and local laws and regulations.

### 14. Transport information

<table>
<thead>
<tr>
<th>Regulatory information</th>
<th>UN no.</th>
<th>Proper shipping name</th>
<th>Class</th>
<th>PG*</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT</td>
<td></td>
<td>Not Regulated</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IATA (C)</td>
<td></td>
<td>Not Regulated</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IATA (P)</td>
<td></td>
<td>Not Regulated</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IMDG</td>
<td></td>
<td>Not Regulated</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TDG</td>
<td></td>
<td>Not Regulated</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PG* : Packing group</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 15. Regulatory information

**United States**

**U.S. Federal regulations**

SARA 302/304/311/312 extremely hazardous substances: No products were found.
SARA 302/304 emergency planning and notification: No products were found.
SARA 302/304/311/312 hazardous chemicals: No products were found.
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Kaolin: Del Sodium chloride (NaCl): Acu, Del
Clean Water Act (CWA) 307: No products were found.
Clean Water Act (CWA) 311: No products were found.
Clean Air Act (CAA) 112 accidental release prevention: No products
were found.

**Clean Air Act (CAA) 112 regulated flammable substances:** No products were found.

**Clean Air Act (CAA) 112 regulated toxic substances:** No products were found.

### United States inventory (TSCA 8b)

- **All components are listed or exempted.**

### State regulations

**Massachusetts**
- None of the components are listed.

**New York**
- None of the components are listed.

**New Jersey**
- The following components are listed: Kaolin

**Pennsylvania**
- The following components are listed: Kaolin

**California Prop. 65**
- Not listed.

### International regulations

**Canada inventory**
- Not determined.

**International lists**
- **Australia inventory (AICS):** Not determined.
- **Japan inventory:** Not determined.
- **China inventory (IECSC):** Not determined.
- **Korea inventory:** Not determined.
- **New Zealand Inventory of Chemicals (NZIoC):** Not determined.
- **Philippines inventory (PICCS):** Not determined.

### 16. Other information

**Hazardous Material Information System (U.S.A.)**

<table>
<thead>
<tr>
<th>Health</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability</td>
<td>0</td>
</tr>
<tr>
<td>Physical hazards</td>
<td>0</td>
</tr>
</tbody>
</table>

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National Fire Protection Association (U.S.A.):

Flammability
Health
1
0
Instability/Reactivity
Special

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