United States

Material Safety Data Sheet

The Ortho Group
P.O. Box 190
Marysville, Ohio 43040
United States

24 h. EMERGENCY TELEPHONE NUMBER
CHEMTREC (U.S.) 1-800-424-9300
CHEMTREC (International) 1-703-527-3887
Non-Emergency Calls 1-937-644-0011

ORTHO DEER B GON DEER & RABBIT REPELLENT CONCENTRATE

1. Product and company identification

MSDS # : 320000004607
EPA Registration Number: EXEMPT

2. Hazards identification

Physical state : liquid [liquid]
Color : Yellow.
Odor : Cinnamon
OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Emergency Overview
No harmful effects expected.

Potential acute health effects

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

\[\text{skin stomach}\]

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

Report version:

Version: 1.1
Date of issue/Date of revision: 08/18/2012
Validity date***
Date of previous issue: 08/18/2012
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

No exposure standard allocated. 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 : Protective gloves are not required, but may be used in situations were significant contact is expected.

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

Physical state : liquid [liquid]
Flash point : > 200 °C (392.00 °F)

**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>Sodium chloride (NaCl)</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>3,000 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Oils, clove Extractives and their physically modified derivatives. Eugenia caryophyllata or Caryophyllus aromaticus, Myrtaceae.</td>
<td>TDLo Oral</td>
<td>Infant</td>
<td>1,000 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Oils, clove Extractives and their physically modified derivatives. Eugenia caryophyllata or Caryophyllus aromaticus, Myrtaceae.</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>1,370 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Oils, clove Extractives and their physically modified derivatives. Eugenia caryophyllata or Caryophyllus aromaticus, Myrtaceae.</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>2,650 mg/kg</td>
<td>-</td>
</tr>
</tbody>
</table>
Oils, clove Extractives and their physically modified derivatives. Eugenia caryophyllata or Caryophyllus aromaticus, Myrtaceae.

LD50 Oral Rat 2,020 mg/kg -

LD50 Dermal Rabbit 1,200 mg/kg -

LD50 Dermal Rabbit 5,000 mg/kg -

LD50 Dermal Rabbit > 5,000 mg/kg -

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**

Conclusion/Summary 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.

**Mutagenicity**

Conclusion/Summary No known significant effects or critical hazards.

**Teratogenicity**

Product/ingredient name Conclusion/Summary No known significant effects or critical hazards.

**Reproductive toxicity**

Conclusion/Summary No known significant effects or critical hazards.

**12. Ecological information**

Ecotoxicity: No known significant effects or critical hazards.

Report version. Report version. Date of issue/Date of revision: Validity date***. Date of previous issue: 08/18/2012
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 : No known significant effects or critical hazards.

Other adverse effects : 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>
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<td></td>
<td></td>
</tr>
<tr>
<td>IATA (C)</td>
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<td>Not Regulated</td>
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<tr>
<td>IATA (P)</td>
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<tr>
<td>IMDG</td>
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<td></td>
<td></td>
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<tr>
<td>TDG</td>
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<td>Not Regulated</td>
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<tr>
<td>PG* : Packing group</td>
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</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.
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) : All components are listed or exempted.
8b)

**State regulations**

**Massachusetts** : The following components are listed: Sulfuric acid sodium salt (1:2)

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

**New Jersey** : None of the components are listed.

**Pennsylvania** : The following components are listed: Sulfuric acid sodium salt (1:2)

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

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

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Date of printing : Print date
Date of issue : Validity date***.

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