## 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 TREE & SHRUB INSECT CONTROL GRANULES

### 1. Product and company identification

<table>
<thead>
<tr>
<th>MSDS #</th>
<th>320000004263</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPA Registration Number</td>
<td>59639-162-239</td>
</tr>
</tbody>
</table>

### 2. Hazards identification

<table>
<thead>
<tr>
<th>Physical state</th>
<th>solid [Granule]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Brown.</td>
</tr>
<tr>
<td>Odor</td>
<td>Slight</td>
</tr>
<tr>
<td>Signal word</td>
<td>CAUTION!</td>
</tr>
<tr>
<td>OSHA/HCS status</td>
<td>This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).</td>
</tr>
</tbody>
</table>

#### Emergency Overview

Keep out of reach of children.  
Harmful if absorbed through the skin.  
Causes moderate eye irritation.  
Avoid contact with skin, eyes or clothing.  
Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.

#### Potential acute health effects

| Inhalation | No known significant effects or critical hazards. |
| Ingestion | No known significant effects or critical hazards. |
| Skin | No known significant effects or critical hazards. |
| Eyes | No known significant effects or critical hazards. |

**Medical conditions aggravated by over-exposure**  
Pre-existing skin disorders may be aggravated by over-exposure to this product.

#### Over-exposure signs/symptoms

| Inhalation | No specific data. |
| Ingestion | No specific data. |
| Skin | No specific data. |
| Eyes | No specific data. |

**Potential chronic health effects**: See section 11 for more information.
See toxicological information (Section 11)

3. Composition/information on ingredients

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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 : No specific fire or explosion hazard.

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 : No specific data.
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. Put on appropriate personal protective equipment (see Section 8).

Environmental precautions : To protect the environment, do not allow pesticide to enter or run-off into storm drains, drainage ditches gutters or surface waters. Do not apply directly to water.
Methods for cleaning up

Small spill : Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Large spill : Vacuum or sweep up material and place in container for disposal. Never place down drain.

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 : 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 : Wear long-sleeved shirt, long pants, shoes with socks. Remove and wash contaminated clothing before reuse.

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 : solid [Granule]

Flash point : Not Applicable
Burning time : Not Applicable
Auto-ignition temperature : Not Applicable
Flammable limits : Not Applicable
Density : 49.7 lb/ft³
Color : Brown
Odor : Slight
pH : Not Applicable
Boiling/condensation point : Not Applicable
Melting/freezing point : Not Applicable
Relative density : Not Applicable
Vapor pressure : Not Applicable
Vapor density : Not Applicable
Volatility : Not Applicable
Odor threshold : Not Applicable
Evaporation rate : Not Applicable
Viscosity : Not Applicable
Solubility : Not Applicable
Solubility in water : Not Applicable

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

<table>
<thead>
<tr>
<th>Acute toxicity</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product</td>
<td>LD50</td>
<td>Oral</td>
<td>Rat</td>
<td>&gt; 2,000 mg/kg</td>
</tr>
<tr>
<td>Product</td>
<td>LC50</td>
<td>Inhalation</td>
<td>Rat</td>
<td>2.94 mg/l</td>
</tr>
<tr>
<td>Product</td>
<td>LD50</td>
<td>Dermal</td>
<td>Rabbit</td>
<td>&gt; 2,000 mg/kg</td>
</tr>
</tbody>
</table>

Conclusion/Summary Very low toxicity to humans or animals.

| Irritation/Corrosion                |          |         |
| Skin                                | Mildly irritating |
| Eyes                                | Moderate  |
| Respiratory                         | May cause respiratory irritation |

| Sensitizer                         | Skin     | Not sensitizing |
|                                    | Respiratory | Not sensitizing - based on the individual components. |

| Chronic toxicity                   | No known significant effects or critical hazards. |
| Carcinogenicity                    | No known significant effects or critical hazards. |

Report version.Re
Version: version Date of issue/Date of revision: Validity date***. Date of previous issue: 00/00/0000
**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>
<tbody>
<tr>
<td>Conclusion/Summary</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>No known significant effects or critical hazards.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Reproductive toxicity**

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

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### 12. Ecological information

**Ecotoxicity**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Conclusion/Summary</td>
<td>This pesticide is toxic to shrimp. This product is toxic to bees.</td>
</tr>
</tbody>
</table>

**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.

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### 13. Disposal considerations

**Waste disposal**

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

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### 14. Transport information

**Regulatory 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>
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</tr>
</tbody>
</table>

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### 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: 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 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 : None of the components are listed.
Pennsylvania : None of the components are listed.
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.):

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

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