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 WEED B GON WEED KILLER FOR LAWNS

1. Product and company identification

MSDS # : 320000002486
EPA Registration Number: 239-2682

2. Hazards identification

Physical state : liquid
Color : Amber.
OSHA/HCS status : While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.

Emergency Overview
No harmful effects expected.

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.
Target organs : None known.

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
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**
- 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**
- 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.

**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
Flash point : Not Applicable
 Burning time : Not Applicable
Auto-ignition temperature : Not Applicable

Date of issue/Date of revision:  Validity date***.  Date of previous issue: 09/08/2011
Flammable limits : Not Applicable
Density : 8.342 lb/gal
Color : Amber.
Odor : Not Applicable
pH : 8
Boiling/condensation point : Not Applicable
Melting/freezing point : Not Applicable
Relative density : 1.00

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

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>Product</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>&gt; 5,000 mg/kg</td>
<td>-</td>
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<tr>
<td>Product</td>
<td>LC50 Inhalation</td>
<td>Rat</td>
<td>&gt; 2.06 mg/l</td>
<td>-</td>
</tr>
<tr>
<td>Product</td>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>&gt; 5,000 mg/kg</td>
<td>-</td>
</tr>
</tbody>
</table>

Conclusion/Summary : Very low toxicity to humans or animals.

Irritation/Corrosion

Skin : Mildly irritating
Eyes : Mildly irritating
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.
### 12. Ecological information

**Ecotoxicity**
- Result: Toxic to fish and aquatic invertebrates and may adversely affect non-target plants.

**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**
- Result: No known significant effects or critical hazards.

**Other adverse effects**
- Result: This material is toxic to aquatic life.

### 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>IATA (C)</td>
<td></td>
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<tr>
<td>IATA (P)</td>
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<tr>
<td>IMDG</td>
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<tr>
<td>TDG</td>
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<tr>
<td>PG* : Packing group</td>
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</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:** 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)**: 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**: At least one component is not listed.
- **International lists**
  - **Australia inventory (AICS)**: At least one component is not listed.
  - **New Zealand Inventory of Chemicals (NZIoC)**: At least one component is not listed.
  - **China inventory (IECSC)**: At least one component is not listed.
  - **Japan inventory**: At least one component is not listed.
  - **Korea inventory**: At least one component is not listed.
  - **Philippines inventory (PICCS)**: At least one component is not listed.

**16. Other information**

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

<table>
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<tr>
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<tbody>
<tr>
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<tr>
<td><strong>Flammability</strong></td>
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<tr>
<td><strong>Physical hazards</strong></td>
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</table>

**Caution:** HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA).
HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868. The customer is responsible for determining the PPE code for this material.

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

![Flammability Diagram]

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

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