



# Material Safety Data Sheet

United States

The Ortho Group  
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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 GROUNDCLAEER VEGETATION KILLER READY TO USE 1

### 1. Product and company identification

EPA Registration Number: : 239-2716  
Formulation Number : S16382  
MSDS # : 320000003826

### 2. Hazards identification

**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** : WARNING!  
Causes substantial but temporary eye injury. Do not get in eyes, or on skin or clothing. Wear safety glasses. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.

#### Potential chronic health effects

**Chronic effects** : No known significant effects or critical hazards.  
**Carcinogenicity** : No known significant effects or critical hazards.  
**Mutagenicity** : No known significant effects or critical hazards.  
**Teratogenicity** : No known significant effects or critical hazards.  
**Developmental effects** : No known significant effects or critical hazards.  
**Fertility effects** : No known significant effects or critical hazards.  
**Target organs** : None known.

#### 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.

**Interactions with other Chemicals** : Not available.

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. 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.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.
- 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** : 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

Consult local authorities for acceptable exposure limits.

**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 where significant contact is expected.

**Eyes** : Protective eyewear.

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

## 9. Physical and chemical properties

<b>Physical state</b>	:	[liquid]
<b>Color</b>	:	Light yellow
<b>Flash point</b>	:	Not available.
<b>Auto-ignition temperature</b>	:	Not available.
<b>Odor</b>	:	Not available.
<b>Odor threshold</b>	:	Not available.
<b>pH</b>	:	7.3
<b>Boiling/condensation point</b>	:	Not available.
<b>Melting/freezing point</b>	:	Not available.
<b>Critical temperature</b>	:	Not available.
<b>Relative density</b>	:	1.04
<b>Vapor pressure</b>	:	Not available.
<b>Vapor density</b>	:	Not available.
<b>Evaporation rate</b>	:	Not available.
<b>Viscosity</b>	:	Not available.
<b>Solubility</b>	:	Not available.
<b>Partition Coefficient (n-octanol)</b>	:	Not available.
<b>Decomposition temperature</b>	:	Not available.

## 10. Stability and reactivity

<b>Chemical stability</b>	:	The product is stable.
<b>Conditions to avoid</b>	:	No specific data.
<b>Materials to avoid</b>	:	No specific data.
<b>Hazardous decomposition products</b>	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
<b>Possibility of hazardous reactions</b>	:	Under normal conditions of storage and use, hazardous reactions will not occur.

## 11. Toxicological information

### Acute toxicity

<b>Product/ingredient name</b>	<b>Result</b>	<b>Species</b>	<b>Dose</b>	<b>Exposure</b>
Product	LD50 Oral	Rat	> 5,000 mg/kg	-
Product	LC50 Inhalation	Rat	> 5.4 mg/l	4 h
Product	LD50 Dermal	Rat	5,000 mg/kg	-

Conclusion/Summary Hazards to humans and domestic animals

**Irritation/Corrosion**

Skin Slight  
Eyes Moderate  
Respiratory May cause respiratory irritation

**Sensitizer**

**Conclusion/Summary** Skin Not sensitizing  
Respiratory Not sensitizing - based on the individual components.

**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**

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

**Reproductive toxicity**

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

**12. Ecological information**

**Ecotoxicity** This product is toxic to plants.

**Aquatic ecotoxicity**

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

**Persistence/degradability**

**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**

**Regulatory**

<b><u>information</u></b>	<b><u>UN no.</u></b>	<b><u>Proper shipping name</u></b>	<b><u>Class</u></b>	<b><u>PG*</u></b>	<b><u>Note</u></b>
DOT		Not Regulated			
IATA (C)		Not Regulated			
IATA (P)					
IMDG		Not Regulated			
TDG		Not Regulated			
PG* : Packing group					

**15. Regulatory information**

**United States** :  
**U.S. Federal regulations**  
**California Prop. 65** : Not listed.  
**United States inventory (TSCA 8b)** : All components are listed or exempted.

Canada inventory : Not determined.

## 16. Other information

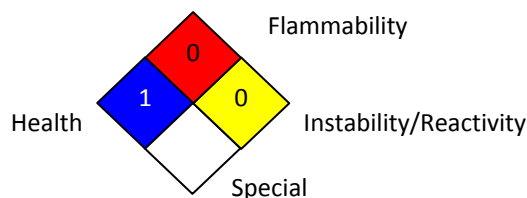
### Hazardous Material Information System (U.S.A.) :

Health	1
Flammability	0
Physical hazards	0

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The customer is responsible for determining the PPE code for this material.

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### Notice to reader

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