



# Material Safety Data Sheet

## United States

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

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

## ORTHO HOME DEFENSE MAX INSECT KILLER FOR INDOOR & PERIMETER 1

### 1. Product and company identification

EPA Registration Number: : 279-9534-239  
MSDS # : 320000001788

### 2. Hazards identification

Physical state : liquid [microemulsion]

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Emergency overview : CAUTION!  
Harmful if swallowed. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

#### Potential chronic health effects

Chronic effects : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.  
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 : Not available.

#### Over-exposure signs/symptoms

Inhalation : No specific data.  
Ingestion : No specific data.  
Skin : Adverse symptoms may include the following:  
irritation  
redness

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

- |                                   |   |  |
|-----------------------------------|---|--|
| <b>Eye contact</b>                | : | 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.   |
| <b>Skin contact</b>               | : | 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.   |
| <b>Inhalation</b>                 | : | 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.  |
| <b>Ingestion</b>                  | : | 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. This product contains a pyrethroid. If large amounts have been ingested, milk, cream, and other digestible fats and oils may increase absorption and should be avoided. |
| <b>Protection of first-aiders</b> | : | No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.  |
| <b>Notes to physician</b>         | : | Vitamin E oil applied dermally may relieve cutaneous paresthesia following skin contact.   |

#### 5. Fire-fighting measures

- |   |   |   |
|---|---|---|
| <b>Flammability of the product</b>                    | : | In a fire or if heated, a pressure increase will occur and the container may burst.   |
| <b><u>Extinguishing media</u></b>                     |   |   |
| <b>Suitable</b>                                       | : | Use an extinguishing agent suitable for the surrounding fire.   |
| <b>Not suitable</b>                                   | : | None known.   |
| <b>Special exposure hazards</b>                       | : | 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. |
| <b>Hazardous thermal decomposition products</b>       | : | No specific data.   |
| <b>Special protective equipment for fire-fighters</b> | : | 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

- |                                  |   |   |
|----------------------------------|---|---|
| <b>Personal precautions</b>      | : | 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). |
| <b>Environmental precautions</b> | : | To protect the environment, do not allow pesticide to enter or run-off into storm drains, drainage ditches gutters or surface waters  |
| <b>Methods for cleaning up</b>   | : | 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 is not required, but may be used in situations where contact is expected.
- Skin** : No special protective clothing is required.

## 9. Physical and chemical properties

- Physical state** : liquid [microemulsion]
- Color** : Translucent.
- Flash point** : Not available.
- Auto-ignition temperature** : Not available.
- Odor** : Not available.
- Odor threshold** : Not available.
- pH** : 4.5
- Boiling/condensation point** : Not available.
- Melting/freezing point** : Not available.
- Critical temperature** : Not available.
- Density** : 1.005 g/cm<sup>3</sup>
- Vapor pressure** : Not available.
- Vapor density** : Not available.
- Evaporation rate** : Not available.
- Viscosity** : Not available.
- Solubility** : Not available.
- Partition Coefficient (n-octanol)** : Not available.
- Decomposition temperature** : Not available.

## 10. Stability and reactivity

- Chemical stability** : The product is stable.
- Conditions to avoid** : No specific data.
- Materials to avoid** : 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

Product/ingredient name	Result	Species	Dose	Exposure
Product	LD50 Dermal	Rat	> 5,000 mg/kg	-

Conclusion/Summary	Not available.
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### Irritation/Corrosion

Skin	Slight
Eyes	Moderate
Respiratory	Not available.

### Sensitizer

Conclusion/Summary	Skin	Not sensitizing
	Respiratory	Not sensitizing

### Chronic toxicity

Conclusion/Summary	Not available.
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### Carcinogenicity

Conclusion/Summary	Not available.
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### Mutagenicity

Conclusion/Summary	Not available.
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### Teratogenicity

Conclusion/Summary	Not available.
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### Reproductive toxicity

Conclusion/Summary	Not available.
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## 12. Ecological information

Ecotoxicity	No known significant effects or critical hazards.
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### Aquatic ecotoxicity

Conclusion/Summary	Not available.
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### Persistence/degradability

Conclusion/Summary	Not available.
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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	UN no.	Proper shipping name	Class	PG*	Note
DOT		Not Regulated			
IATA (C)	3082	Environmentally hazardous substance, liquid, n.o.s. (Bifenthrin) (Cypermethrin)	9	(, III)	
IATA (P)	3082	Environmentally hazardous substance, liquid, n.o.s. (Bifenthrin) (Cypermethrin)	9	(, III)	

<u>Regulatory information</u>	<u>UN no.</u>	<u>Proper shipping name</u>	<u>Class</u>	<u>PG*</u>	<u>Note</u>
IMDG	3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bifenthrin) (Cypermethrin)	9	(, III)	
TDG	3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bifenthrin) (Cypermethrin)	9	(, III)	

PG\* : Packing group

## 15. Regulatory information

**United States** :

U.S. Federal regulations

California Prop. 65 : Not listed.

United States inventory (TSCA 8b) : Exempted

Canada inventory : At least one component is not listed.

## 16. Other information

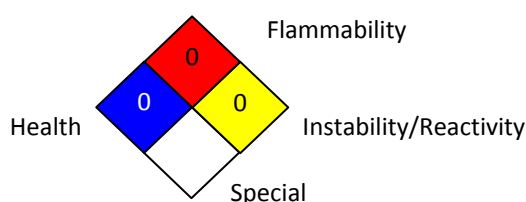
**Hazardous Material Information System (U.S.A.) :**

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

**General Comment:** This document contains health, safety, and environmental information useful to emergency response agencies, health care providers, manufacturers, and workers/employees. It does not replace the precautionary language, use directions, or the storage and disposal information found on the product label.

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