

**ORTHO**°

Latest revision date: 11/24/2013 Version: 1.1

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 HOME DEFENSE MAX TERMITE & DESTRUCTIVE BUG KILLER (NON-TRENCHING)

## 1. Product and company identification

**MSDS** # : 320000002532 **EPA Registration Number**: 279-3218-239

## 2. Hazards identification

Physical state : liquid [liquid]

Color : Clear to Hazy Signal word : CAUTION!

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard

Communication Standard (29 CFR 1910.1200).

**Emergency Overview** Causes moderate eye irritation.

May be harmful if swallowed.

Harmful if inhaled.

Harmful if absorbed through the skin. Avoid breathing vapor or mist.

Avoid contact with eyes, skin and clothing.

Wash throughly 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.Eves: No known significant effects or critical hazards.

Target organs : Contains material which causes damage to the following organs:

eyes

### <u>Potential chronic health effects</u>: 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.

Report version.Re port

Medical conditions aggravated by over-exposure

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

See toxicological information (Section 11)

## 3. Composition/information on ingredients

Name	CAS number	%
1,2-Propanediol	57-55-6	>3 - <=5
1,2,3-Propanetriol, 1,2,3-triacetate	102-76-1	>3 - <=5
2-Methyl-1,1'-biphenyl-3-ylmethyl (Z)-3-(2-chloro-3,3,3-	82657-04-3	>1 - <=3
trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylate;		
Bifenthrin		

#### 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. 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.

#### 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 may include the following materials: carbon dioxide

carbon monoxide

**Special protective equipment** : 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

Report version.Re port

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** 

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

Ingredient	Exposure limits
1,2-Propanediol	AIHA WEEL (1999-01-01) Time Weighted Average (TWA) 10 mg/m3
Distillates (petroleum)	ACGIH TLV (2003-01-01) Notes: Skin contact does contribute to exposure. Confirmed animal carcinogen with unknown relevance to humans. Refers to Appendix A Carcinogens. ACGIH 2003 Adoption Application restricted to conditions in which there are negligible aerosol exposures. TLV-TWA: Threshold Limit Value - Time weighted average PEL: Permissible Exposure Level 200 mg/m3

#### 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.

Report version.Re port

**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 Wear protective gloves.

Protective eyewear is not required, but may be used in situations were **Eyes** 

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 liquid [liquid] Not Applicable Flash point **Burning time** Not Applicable **Auto-ignition temperature** Not Applicable Not Applicable Flammable limits **Density** 1.02 g/cm3 Color Clear to Hazy Odor Not Applicable

Hα 5.5

**Boiling/condensation point** Not Applicable Not Applicable Melting/freezing point

Relative density 1.02 1.0187

Vapor pressure Not Applicable Vapor density Not Applicable Volatility Not Applicable Not Applicable **Odor threshold** Not Applicable **Evaporation rate** Not Applicable Viscosity Not Applicable **Solubility** Solubility in water Not Applicable

#### 10. Stability and reactivity

**Chemical stability** The product is stable. Conditions to avoid No specific data. No specific data. **Incompatible materials** 

**Hazardous decomposition** 

products

Under normal conditions of storage and use, hazardous decomposition

products should not be produced.

Possibility of hazardous Under normal conditions of storage and use, hazardous reactions will not

occur.

reactions

Report version.Re

port

Validity date\*\*\*. 10/11/2011 Version: version Date of issue/Date of revision: Date of previous issue:

## 11. Toxicological information

**Acute toxicity** 

Product/ingredient nameResultSpeciesDoseExposureProductLD50 OralRat> 5,000 mg/kg-

 Product
 LD50 Oral
 Rat
 > 5,000 mg/kg

 Product
 LC50 Inhalation
 Rat
 8.91 mg/l

 Product
 LD50 Dermal
 Rat
 > 5,000 mg/kg

Conclusion/Summary Very low toxicity to humans or animals. No additional remark.

**Irritation/Corrosion** 

Skin Moderate Eyes Mild.

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** 

Product/ingredient Result Species Dose Exposure

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**: This pesticide is toxic to fish and aquatic invertebrates

#### Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
1,2-Propanediol			
	Acute LC50 44,000 mg/l	Fish - Rainbow	4 d
	Fresh water	trout,donaldson trout	
	Acute EC50 > 1,000 mg/l	Aquatic invertebrates.	2 d
	Fresh water	Water flea	
2-Methyl-1,1'-biphenyl-3-ylmethyl (Z)-3-			
(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-			
dimethylcyclopropanecarboxylate;			
Bifenthrin			

Report version.Re port

Acute LC50 0.0002 mg/l	Fish - Rainbow	4 d
Fresh water	trout,donaldson trout	
Acute LC50 0.0004 mg/l	Fish - Bluegill	4 d
Fresh water		

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

Persistence/degradability

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

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

Regulatory

information UN no. Proper shipping name Class PG\* **Note** 

DOT Not Regulated

PG\*: Packing group

## 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: 1,2-Propanediol: Acu, Del 1,2,3-Propanetriol, 1,2,3-

triacetate: Acu Distillates (petroleum): Del

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.

Report version.Re port

Validity date\*\*\*. 10/11/2011 Version: version Date of issue/Date of revision: Date of previous issue:

**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 : The following components are listed: 1,2-Propanediol 2-Methyl-1,1'-

biphenyl-3-ylmethyl (Z)-3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-

dimethylcyclopropanecarboxylate; Bifenthrin

**Pennsylvania**: The following components are listed: 1,2-Propanediol

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.

**Japan inventory:** At least one component is not listed.

China inventory (IECSC): At least one component is not listed.

**Korea inventory:** At least one component is not listed.

New Zealand Inventory of Chemicals (NZIoC): 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.):** 

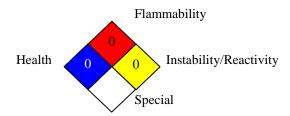
Health	1
Flammability	0
Physical hazards	0

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.

Report version.Re port

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



Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

**Date of printing** : Print date

**Date of issue** : Validity date\*\*\*.

Version : Report version. Report version

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

> Report version.Re port