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### **United States**

# 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 DUAL-ACTION BED BUG KILLER

### **Section 1. Identification**

GHS product identifier : ORTHO HOME DEFENSE DUAL-ACTION BED BUG KILLER

Product type : Pesticide Material uses : Aerosol.

**SDS** # : 320000004598 **EPA Registration Number**: 1021-2570-239

### Relevant identified uses of the substance or mixture and uses advised against

Use only in accordance with label directions.

### Section 2. Hazards identification

This product is regulated by the Environmental Protection Agency (EPA) for label precautionary text see Section 15.

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

Communication Standard (29 CFR 1910.1200).

Classification of the substance or

mixture

AEROSOLS - Category 3

### **GHS label elements**

Signal word : Warning

**Hazard statements**: Pressurized container: may burst if heated.

### **Precautionary statements**

**General**: Read label before use. Keep out of reach of children. If medical advice

is needed, have product container or label at hand.

Prevention: Not applicable.Response: Not applicable.Storage: Not applicable.

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Disposal: Not applicable.Supplemental label elements: None known.Hazards not otherwise classified: None known.

## Section 3. Composition/information on ingredients

Substance/mixture: MixtureChemical name: Not available.Other means of identification: Not available.

Ingredient name	%	CAS number
Propane, 2-methyl-	>= 10 - < 20	75-28-5

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional 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.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

### **Description of necessary first aid measures**

**Eye contact**: Immediately flush eyes with plenty of water, occasionally lifting the

upper and lower eyelids. Check for and remove any contact lenses.

Get medical attention if irritation occurs.

**Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable

for breathing. Get medical attention if symptoms occur.

**Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated

clothing and shoes. Get medical attention if symptoms occur.

**Ingestion**: Wash out mouth with water. If material has been swallowed and the

exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel.

Get medical attention if symptoms occur.

### Most important symptoms/effects, acute and delayed

### Potential acute health effects

Eye contact: No known significant effects or critical hazards.Inhalation: No known significant effects or critical hazards.Skin contact: No known significant effects or critical hazards.Ingestion: No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

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**Eye contact**: Adverse symptoms may include the following:

irritation redness

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

Skin contact: No specific data.Ingestion: No specific data.

### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist

immediately if large quantities have been ingested or inhaled.

**Specific treatments** : No specific treatment.

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

suitable training.

See toxicological information (Section 11)

## **Section 5. Fire-fighting measures**

### **Extinguishing media**

Suitable extinguishing media Unsuitable extinguishing media Use an extinguishing agent suitable for the surrounding fire.

: None known.

Specific hazards arising from the chemical

: In a fire or if heated, a pressure increase will occur and the container may burst. Bursting aerosol containers may be propelled from a fire at

Hazardous thermal decomposition products

high speed.

Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides

Special protective actions for firefighters 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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-

exposed containers cool.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and selfcontained breathing apparatus (SCBA) with a full face-piece operated

in positive pressure mode.

# Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

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#### For non-emergency personnel

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

#### For emergency responders

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

### **Environmental precautions**

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

Spill

entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

#### Precautions for safe handling

Protective measures

Put on appropriate personal protective equipment (see Section 8). Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Avoid breathing gas. Avoid breathing vapor or mist.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Use appropriate containment to avoid environmental contamination.

## Section 8. Exposure controls/personal protection

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### Occupational exposure limits

Ingredient name	Exposure limits
Propane, 2-methyl-	NIOSH REL (1994-06-01)
	<b>TWA</b> 1,900 mg/m3, 800 ppm

**Appropriate engineering controls** 

Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**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.

### **Individual protection measures**

Hygiene measures

wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

Protective eyewear is not required, but may be used in situations were contact is expected.

### Skin protection

**Hand protection** 

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

**Body protection Other skin protection** 

: No special protective clothing is required.

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is

necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits

of the selected respirator.

# Section 9. Physical and chemical properties

#### **Appearance**

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Physical state : liquid [aerosol]
Color : Clear Amber

Odor : Faint odor.
Odor threshold : Not available.

**pH** : 5.3

Melting point: Not available.Boiling point: Not available.Flash point: Not available.Evaporation rate: Not available.Flammability (solid, gas): Not available.

Lower and upper explosive : Lower: Not available. (flammable) limits : Upper: Not available.

Vapor pressure: Not available.Vapor density: Not available.Relative density: Not available.Solubility: Not available.Partition coefficient: n-: Not available.

octanol/water

Auto-ignition temperature: Not available.Decomposition temperature: Not available.

Viscosity : Dynamic: Not available.

Kinematic: Not available.

# Section 10. Stability and reactivity

**Reactivity** : No specific test data related to reactivity available for this product or

its ingredients.

**Chemical stability** : The product is stable.

**Possibility of hazardous reactions**: Under normal conditions of storage and use, hazardous reactions will

not occur.

Conditions to avoid : No specific data.

Incompatible materials : No specific data.

**Hazardous decomposition** : Under normal conditions of storage and use, hazardous decomposition

**products** products should not be produced.

## Section 11. Toxicological information

### **Information on toxicological effects**

### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
	LD50 Oral	Rat	3,129 mg/kg	=
	LC50 Inhalation	Rat	> 5 mg/l	4 h

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

### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
	Eyes -	Rabbit	1.0		-
	Redness of				
	the				
	conjunctivae				
	Skin -	Rabbit	1.0		-
	Erythema/Es				
	char				

Conclusion/Summary

Skin : Slight Eves : Minimal

**Respiratory** : May cause respiratory irritation

### Sensitization

Product/ingredient name Route of exposure		Species	Result
	Skin	Guinea pig	Sensitizing

**Conclusion/Summary** 

**Skin** : May cause skin sensitization.

**Respiratory** : No results available.

**Mutagenicity** 

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

Carcinogenicity

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

**Reproductive toxicity** 

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

**Teratogenicity** 

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

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

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### **Aspiration hazard**

Not available.

Information on the likely routes of

exposure

Not available.

### Potential chronic health effects

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

General: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.

## Section 12. Ecological information

### **Toxicity**

**Conclusion/Summary** : Not available.

Persistence and degradability

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

### Mobility in soil

Soil/water partition coefficient

(KOC)

Not available.

Other adverse effects : No known significant effects or critical hazards.

## Section 13. Disposal considerations

Disposal methods

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some

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product residues. Do not puncture or incinerate container.

# **Section 14. Transport information**

Regulatory					
information	UN no.	Proper shipping name	Class	PG*	<u>Note</u>
DOT	1950	Aerosols non-flammable, (each not exceeding	2.2	(,)	Consumer
		1 L capacity)			commodity
IATA (C)	1950	Aerosols, non-flammable	2.2	(,)	Limited
					Quantities
IATA (P)	1950	Aerosols, non-flammable	2.2	(,)	Limited
					Quantities
IMDG	1950	AEROSOLS	2.2	(,)	Limited
					Quantities
TDG	1950	AEROSOLS non-flammable	2.2	(,)	Consumer
					commodity

PG\*: Packing group

# Section 15. Regulatory information

**Precautionary statements** 

Signal word

: CAUTION!

**Emergency Overview** 

: Keep out of reach of children.

Harmful if swallowed.

Wash throughly with soap and water after handling and before eating,

drinking, chewing gum, or using tobacco.

Prolonged or frequently repeated skin contact may cause allergic reactions

in some individuals.

**U.S. Federal regulations** 

: United States inventory (TSCA 8b):

Not determined.

### **State regulations**

California Prop. 65

Not available.

### **International lists**

### **National inventory**

Australia : Not determined.

Canada : At least one component is not listed.

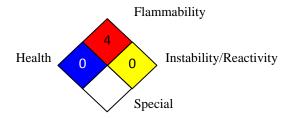
ChinaEuropeJapanNot determined.Not determined.Not determined.

Report version.Re port

Malaysia: Not determined.New Zealand: Not determined.Philippines: Not determined.Republic of Korea: Not determined.Taiwan: Not determined.

### **Section 16. Other information**

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



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#### Procedure used to derive the classification

Classification	Justification
H229	Expert judgment

#### **History**

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

Version : 1.6

### Notice to reader

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