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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

GASES UNDER PRESSURE - Liquefied gas

SKIN SENSITIZATION - Category 1

#### **GHS** label elements

Hazard pictograms



Signal word : Warning

**Hazard statements** : Contains gas under pressure; may explode if heated.

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May cause an allergic skin reaction.

#### **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**: Wear protective gloves. Avoid breathing vapor. Contaminated work

clothing must not be allowed out of the workplace.

**Response** : IF ON SKIN: Wash with plenty of soap and water. Wash

contaminated clothing before reuse. If skin irritation or rash occurs:

Get medical attention.

**Storage**: Protect from sunlight. Store in a well-ventilated place.

**Disposal**: Dispose of contents and container in accordance with all local,

regional, national and international regulations.

**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 - < 25	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. Continue to rinse for at least 10 minutes. Get medical attention if

irritation occurs.

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

for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical

attention immediately. Maintain an open airway.

**Skin contact**: Wash with plenty of soap and water. Remove contaminated clothing

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and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes

thoroughly before reuse.

**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 adverse health effects persist or are severe.

Never give anything by mouth to an unconscious person.

#### 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** : May cause an allergic skin reaction.

**Ingestion** : No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

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

irritation redness

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

respiratory tract irritation

coughing

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

irritation redness

**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. Wash contaminated clothing thoroughly with water

before removing it, or wear gloves.

See toxicological information (Section 11)

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

#### **Extinguishing media**

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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 high speed.

Hazardous thermal decomposition products

: 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

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. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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

: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent 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

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diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. 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). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing gas. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Empty containers retain product residue and can be hazardous.

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. Protect from sunlight. Use appropriate containment to avoid environmental contamination.

# Section 8. Exposure controls/personal protection

#### 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

Report version.Re port

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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations

and safety showers are close to the workstation location.

**Eve/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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves

cannot be accurately estimated.

**Body protection**: No special protective clothing is required.

Other skin protection : 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**

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.

Report version.Re port

**Evaporation rate** : Not available. **Flammability (solid, gas)** : Not available.

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

Vapor pressure

Vapor density

Relative density

Solubility

Partition coefficient: n
Not available.

Not available.

Not available.

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
	LD50 Dermal	Rabbit	> 5,000 mg/kg	-

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

#### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
	Eyes -	Rabbit	1.0		-
	Redness of				
	the				
	coniunctivae				

Report version.Re port

Skin -	Rabbit	1.0	-
Erythema/Es			
char			

Conclusion/Summary

Skin : Slight
Eyes : 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.

#### **Aspiration hazard**

Not available.

Information on the likely routes of :

Not available.

exposure

#### Potential chronic health effects

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

Report version.Re port

General : 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.

### 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 product residues. Do not puncture or incinerate container.

# **Section 14. Transport information**

Regulatory

informationUN no.Proper shipping nameClassPG\*NoteDOT1950Aerosols non-flammable, (each not exceeding 1 L capacity)2.2(,)Limited Quantities

Report version.Re port

Regulatory					
<u>information</u>	UN no.	Proper shipping name	Class	PG*	<u>Note</u>
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	(,)	Limited
					Quantities

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>U.S. Federal regulations</u>: United States inventory (TSCA 8b):

Not determined.

#### **State regulations**

California Prop. 65

Not available.

#### **International lists**

### National inventory

Australia : Not determined.

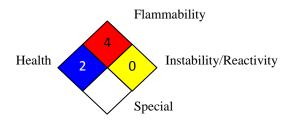
Canada : At least one component is not listed.

China Not determined. **Europe** Not determined. Japan Not determined. Malaysia Not determined. **New Zealand** Not determined. **Philippines** Not determined. Republic of Korea Not determined. **Taiwan** Not determined.

> Report version.Re port

### Section 16. Other information

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



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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.

#### Procedure used to derive the classification

Classification	Justification
Press. Gas Liq. Gas, H280	On basis of test data
Skin Sens. 1, H317	On basis of test data

#### **History**

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

Version : 1.8

#### 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



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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 BED BUG, FLEA & TICK KILLER

### **Section 1. Identification**

GHS product identifier : ORTHO HOME DEFENSE BED BUG, FLEA & TICK KILLER

**Product type** : Pesticide

**SDS** # : 320000009428 **EPA Registration Number**: : 1021-2597-239

#### 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

SKIN SENSITIZATION - Category 1

#### **GHS label elements**

Hazard pictograms



Signal word : Warning

**Hazard statements** : May cause an allergic skin reaction.

#### **Precautionary statements**

Report version.Re port

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

is needed, have product container or label at hand.

Prevention : Wear protective gloves. Avoid breathing vapor. Contaminated work

clothing must not be allowed out of the workplace.

**Response** : IF ON SKIN: Wash with plenty of soap and water. Wash

contaminated clothing before reuse. If skin irritation or rash occurs:

Get medical attention.

**Storage** : Not applicable.

**Disposal**: Dispose of contents and container in accordance with all local,

regional, national and international regulations.

**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
1,2-Benzisothiazol-3(2H)-one	>= 0.1 - < 0.3	2634-33-5

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. Continue to rinse for at least 10 minutes. Get medical attention if

irritation occurs.

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

for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical

attention immediately. Maintain an open airway.

**Skin contact**: Wash with plenty of soap and water. Remove contaminated clothing

and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms,

Report version.Re port

avoid further exposure. Wash clothing before reuse. Clean shoes

thoroughly before reuse.

**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 adverse health effects persist or are severe.

Never give anything by mouth to an unconscious person.

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

#### Potential acute health effects

No known significant effects or critical hazards. Eye contact Inhalation No known significant effects or critical hazards.

Skin contact May cause an allergic skin reaction.

Ingestion No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

Eve contact No specific data. Inhalation No specific data.

Skin contact Adverse symptoms may include the following:

> irritation redness

**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. Wash contaminated clothing thoroughly with water

before removing it, or wear gloves.

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.

**Hazardous thermal** decomposition products Decomposition products may include the following materials: carbon dioxide

Report version.Re

port

Version: Date of issue/Date of revision: Validity date\*\*\*. Date of previous issue: 05/19/2016 version

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.

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

For non-emergency personnel : No

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent 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 noncombustible, 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. Contaminated absorbent material may pose the same hazard as the spilled product. 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). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in

Report version.Re port

Advice on general occupational	
hygiene	

eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

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 in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## Section 8. Exposure controls/personal protection

Date of issue/Date of revision:

#### **Occupational exposure limits**

Ingredient name		Exposure limits
1,2-Benzisothiazol-3(2H)-one		None.
Appropriate engineering controls	:	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations
Eye/face protection	:	and safety showers are close to the workstation location.  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

Validity date \*\*\*.

Date of previous issue: 05/19/2016

Version:

Report version.Re port

version

standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves

cannot be accurately estimated.

**Body protection** No special protective clothing is required.

Other skin protection 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.

Use a properly fitted, air-purifying or air-fed respirator complying **Respiratory protection** 

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**

Physical state liquid [WHITE LIQUID WITH A MILD ODOR]

Color White to off-white

Odor characteristic odor **Odor threshold** Not available.

5.1 pН

**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.

1.00 Relative density

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.

Report version.Re port

Version: Date of issue/Date of revision: Validity date\*\*\*. Date of previous issue: 05/19/2016 version

# 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	-
	LD50 Dermal	Rabbit	5,000 mg/kg	-

**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 Eyes : Minimal

**Respiratory** : May cause respiratory irritation

#### **Sensitization**

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

#### **Conclusion/Summary**

Report version.Re port

Skin : Sensitizing

**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.

**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 : 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.

### Section 12. Ecological information

**Toxicity** 

Conclusion/Summary : Not available.

Persistence and degradability

Report version.Re port

**Conclusion/Summary** Not available.

#### Mobility in soil

Soil/water partition coefficient

Not available.

(KOC)

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. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# **Section 14. Transport information**

Regulatory

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

DOT Not Regulated IATA (C) Not Regulated

IATA (P)

**IMDG** Not Regulated **TDG** Not Regulated

PG\*: Packing group

### **Section 15. Regulatory information**

**Precautionary statements** 

Signal word **CAUTION!** 

Keep out of reach of children. **Emergency Overview** 

Harmful if swallowed.

Report version.Re

port

Version: Date of issue/Date of revision: Validity date \*\*\*. Date of previous issue: 05/19/2016 version

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**

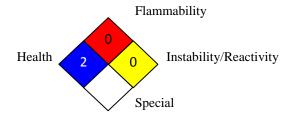
Australia : Not determined.

**Canada** : At least one component is not listed.

China Not determined. **Europe** Not determined. Japan Not determined. 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.):



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

Report version.Re port

are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

#### Procedure used to derive the classification

Classification	Justification		
Skin Sens. 1, H317	On basis of test data		

#### **History**

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

Version : 1.1

#### 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



Latest revision date: 06/03/2016

Version: 1.1

#### **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 BED BUG, FLEA & TICK KILLER POWDER

### **Section 1. Identification**

GHS product identifier : ORTHO HOME DEFENSE BED BUG, FLEA & TICK KILLER

POWDER

Product type : Pesticide SDS # : 32000009442 EPA Registration Number: : 73327-14-239

#### 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 : 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.

Classification of the substance or

mixture

Not classified.

#### **GHS** label elements

Signal word : None

**Hazard statements**: No known significant effects or critical hazards.

**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.

Report version.Re port

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

## Section 3. Composition/information on ingredients

Substance/mixture : Mixture

**Chemical name** : Not available. **Other means of identification** : Not available.

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

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, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit 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

Report version.Re port

**Eve contact** No specific data. Inhalation No specific data. Skin contact No specific data. **Ingestion** No specific data.

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

Treat symptomatically. Contact poison treatment specialist Notes to physician

immediately if large quantities have been ingested or inhaled.

No specific treatment. **Specific treatments** 

**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

No specific fire or explosion hazard.

Hazardous thermal decomposition products Decomposition products may include the following materials:

carbon dioxide carbon monoxide metal oxide/oxides

Special protective actions for fire-

fighters

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

Special protective equipment for

fire-fighters

personal risk or without suitable training. 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

No action shall be taken involving any personal risk or without For non-emergency personnel

> suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. 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".

Report version.Re port

Version: Date of issue/Date of revision: Validity date\*\*\*. Date of previous issue: 05/19/2016 version

#### **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** 

: Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. 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 Advice on general occupational

hygiene

Put on appropriate personal protective equipment (see Section 8).

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 in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

### Section 8. Exposure controls/personal protection

#### Occupational exposure limits

None.

**Appropriate engineering controls** 

Good general ventilation should be sufficient to control worker

exposure to airborne contaminants.

**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

Report version.Re port

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**: Wear long-sleeved shirt, long pants, shoes with socks., Remove and

wash contaminated clothing before reuse.

Other skin protection : 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, particulate filter 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**

Physical state : solid [Fine powder]
Color : White to off-white

Odor Faint odor. **Odor threshold** Not available. pН Not available. **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.

Report version.Re port

**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	> 5,000 mg/kg	-
	LC50 Inhalation	Rat	> 5 mg/l	4 h
	LD50 Dermal	Rat	> 5,000 mg/kg	-

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

#### **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
Eyes : Minimal

**Respiratory** : May cause respiratory irritation

#### **Sensitization**

Report version.Re port

Product/ingredient name	Route of exposure	Species	Result
	Skin	Guinea pig	Not sensitizing

**Conclusion/Summary** 

Skin : Not sensitizing
Respiratory : Not 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.

**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**

Report version.Re port

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 product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# Section 14. Transport information

Regulatory					
information	UN no.	Proper shipping name	<u>Class</u>	PG*	<b>Note</b>
DOT		Not Regulated			
IATA (C)	3077	Environmentally hazardous substance, solid,	9	(, III)	
		n.o.s. (deltamethrin (ISO))			
IATA (P)	3077	Environmentally hazardous substance, solid,	9	(, III)	
		n.o.s. (deltamethrin (ISO))			
IMDG	3077	ENVIRONMENTALLY HAZARDOUS	9	(, III)	
		SUBSTANCE, SOLID, N.O.S.			

PG\*: Packing group

### Section 15. Regulatory information

Report version.Re port

**Precautionary statements** 

Signal word : CAUTION!

**Emergency Overview** : Keep out of reach of children.

Harmful if absorbed through the skin. Avoid contact with skin, eyes or clothing.

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

drinking, chewing gum, or using tobacco.

U.S. Federal regulations : United States inventory (TSCA 8b):

Not determined.

#### **State regulations**

California Prop. 65

Not available.

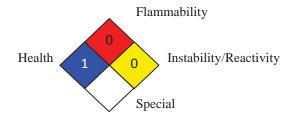
#### **International lists**

#### **National inventory**

Australia Not determined. Canada Not determined. China Not determined. **Europe** Not determined. Japan Not determined. 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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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.

#### Procedure used to derive the classification

Classification	Justification
Not classified.	

#### **History**

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

Version : 1.1

#### 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

> Report version.Re port



Latest revision date: 05/09/2017

Version: 1.0

#### **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 BED BUG TRAP

### **Section 1. Identification**

**GHS product identifier** : ORTHO HOME DEFENSE BED BUG TRAP

**Product type** : Device

**SDS** # : 320000010059

#### 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

TOXIC TO REPRODUCTION (Fertility) - Category 2

#### **GHS** label elements

Hazard pictograms



Signal word : Warning

**Hazard statements** : Suspected of damaging fertility.

#### **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: Obtain special instructions before use. Do not handle until all safetyVersion:1.0Date of issue/Date of revision:05/09/2017Date of previous issue:00/00/0000

precautions have been read and understood. Wear protective gloves.

Wear eye or face protection. Wear protective clothing.

**Response** : IF exposed or concerned: Get medical attention.

Storage : Store locked up.

**Disposal**: Dispose of contents and container in accordance with all local,

regional, national and international regulations.

**Supplemental label elements**: None known. **Hazards not otherwise classified**: None known.

# Section 3. Composition/information on ingredients

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

Ingredient name	%	CAS number
2-Hexenal, (2E)-	>= 1 - < 3	6728-26-3
2-Hexanone	>= 1 - < 3	591-78-6

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. Continue to rinse for at least 10 minutes. Get medical attention if

irritation occurs.

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

for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open

airway.

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

clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly

before reuse.

**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. Never give anything by mouth to an

unconscious person.

#### 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

Eye contact : No specific data.

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

reduced fetal weight increase in fetal deaths skeletal malformations

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

reduced fetal weight increase in fetal deaths skeletal malformations

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

reduced fetal weight increase in fetal deaths skeletal malformations

#### 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

In a fire or if heated, a pressure increase will occur and the container

may burst.

Hazardous thermal decomposition products

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide sulfur oxides

Special protective actions for fire-

fighters

chemical

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.

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

**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. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is

inadequate. Put on appropriate personal protective equipment.

For emergency responders:

If specialised clothing is required to deal with the spillage, take

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 : Stop leak if without risk. Move containers from spill area. Approach

release from upwind. Prevent 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. Contaminated absorbent material may pose the same hazard as the spilled product. 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).

Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain

product residue and can be hazardous. Do not reuse container.

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 in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

### Section 8. Exposure controls/personal protection

#### Occupational exposure limits

None.	
NIOSH REL (1994-06-01) TWA 4 mg/m3, 1 ppm OSHA PEL 1989 (1989-03-01) TWA 20 mg/m3, 5 ppm OSHA PEL (1993-06-30) TWA 410 mg/m3, 100 ppm	
	NIOSH REL (1994-06-01) TWA 4 mg/m3, 1 ppm OSHA PEL 1989 (1989-03-01) TWA 20 mg/m3, 5 ppm OSHA PEL (1993-06-30)

**Appropriate engineering controls** 

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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves

cannot be accurately estimated.

**Body protection** : No special protective clothing is required.

Other skin protection : 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**

Physical state : liquid [liquid]
Color : Dark brown to black

Odor: CharacteristicOdor threshold: Not available.pH: Not available.Melting point: Not available.Boiling point: Not available.

Flash point : Closed cup:  $>= 182 \, ^{\circ}\text{C} (359.60 \, ^{\circ}\text{F})$ 

**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		
ORTHO HOME DEFENSE BED BUG TRAP						
	LD50 Oral	Rat	> 5,000 mg/kg	-		
	LC50 Inhalation	Rat	> 5 mg/l	4 h		
	LD50 Dermal	Rat	> 5,000 mg/kg	-		

Conclusion/Summary : No acute toxicity

#### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
	Eyes -	Rabbit	1		-
	Redness of				
	the				
	conjunctivae				
	Skin -	Rabbit	1		-
	Erythema/Es				
	char				
2-Hexenal, (2E)-	Skin -	Rabbit	-	24 hrs	-
	Moderate				
	irritant				
2-Hexanone	Eyes - Mild	Rabbit	-	24 hrs	-
	irritant				
	Skin - Mild	Rabbit	-	24 hrs	-
	irritant				

Conclusion/Summary

Skin : Based on available data, the classification criteria are not met.

Eyes : Based on available data, the classification criteria are not met.

Respiratory : Based on available data, the classification criteria are not met.

#### **Sensitization**

Product/ingredient name	Route of exposure	Species	Result
	Skin	Guinea pig	Not sensitizing

#### Conclusion/Summary

Skin: No results available.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)**

Product/ingredient name	Category	Route of exposure	Target organs
2-Hexanone			

#### **Specific target organ toxicity (repeated exposure)**

Product/ingredient name	Category	Route of exposure	Target organs
2-Hexanone			

#### **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** : Suspected of damaging fertility.

## Section 12. Ecological information

#### **Toxicity**

**Conclusion/Summary** : Not available.

#### Persistence and degradability

Not available. **Conclusion/Summary** 

**Mobility in soil** 

Soil/water partition coefficient

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. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**Note** 

### **Section 14. Transport information**

Regulatory

<u>information</u> UN no. Proper shipping name Class PG\*

Not Regulated DOT IATA (C) Not Regulated

IATA (P)

**IMDG** Not Regulated Not Regulated TDG

PG\* : Packing group

# Section 15. Regulatory information

**Precautionary statements** 

Signal word No signal word.

**Emergency Overview** Keep out of reach of children and pets.

**U.S. Federal regulations United States inventory (TSCA 8b):** 

All components are listed or exempted.

#### **State regulations**

California Prop. 65

Not available.

#### **International lists**

#### National inventory

Australia: All components are listed or exempted.Canada: All components are listed or exempted.China: All components are listed or exempted.Europe: All components are listed or exempted.

Japan : Not determined.

Malaysia : Not determined.

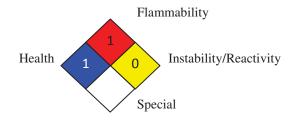
New Zealand : All components are listed or exempted.
Philippines : All components are listed or exempted.

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
Repr. 2, H361 (Fertility)	Calculation method

#### **History**

**Date of issue/Date of revision** : 05/09/2017

Version : 1.0

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