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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**

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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
Hazards not otherwise classified

None known.
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
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,

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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

Eve 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 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

Hazardous thermal decomposition products

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

Decomposition products may include the following materials: carbon dioxide

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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 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

For emergency responders inadequate. Put on appropriate personal protective equipment.

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).

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

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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.

# 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. 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.

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# Section 8. Exposure controls/personal protection

#### 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 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

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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

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**

Physical state

liquid [WHITE LIQUID WITH A MILD ODOR]

White to off-white

Odor Odor threshold

Color

characteristic odor Not available.

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

Lower and upper explosive

Lower: Not available. Upper: Not available.

(flammable) limits Vapor pressure Vapor density

Not available. : Not available.

Relative density

1.00 :

**Solubility** Partition coefficient: nNot available. Not available.

octanol/water

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

Viscosity

Dynamic: Not available.

Kinematic: Not available.

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# 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

Eves

Minimal

Respiratory

May cause respiratory irritation

#### **Sensitization**

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

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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 :

Not available.

exposure

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 Mutagenicity Teratogenicity **Developmental effects** 

Fertility effects

No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards. No known significant effects or critical hazards.

**Section 12. Ecological information** 

**Toxicity** 

Conclusion/Summary

Not available.

Persistence and degradability

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Conclusion/Summary

Not available.

#### 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. 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.

Class PG\*

**Note** 

# **Section 14. Transport information**

Regulatory

information UN no. Proper shipping name

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!

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

Harmful if swallowed.

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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

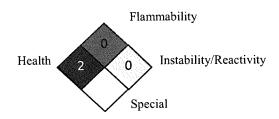
Not determined. Australia

At least one component is not listed. Canada

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

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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

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#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named 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.

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