

United States Material Safety Data Sheet

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

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

ORTHO BUG-GETA SNAIL & SLUG KILLER 1

1. Product and company identification				
MSDS # EPA Registration Number:	:	320000005686 71096-7-239		
2. Hazards identification				
Physical state	:	solid [pellets]		
Odor : V Signal word : C Precautionary measures : I M OSHA/HCS status : I Emergency Overview H H C H H A A A		Brown. Wheat-flour smell CAUTION! Do not eat, drink or smoke when using this product. Wash thoroughly after handling. This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). Harmful if swallowed. Harmful if inhaled. Causes moderate eye irritation. Harmful if absorbed through the skin. Avoid breathing dust. Avoid contact with eyes, skin and clothing.		
Potential acute health effects		Wash throughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.		
Inhalation Ingestion Skin Eyes Target organs	:::::::::::::::::::::::::::::::::::::::	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. Contains material which causes damage to the following organs: skin eyes		
<u>Potential chronic health effects</u> : See section 11 for more information. Over-exposure signs/symptoms				
Inhalation Report	:	No specific data.		

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Ingestion	:	No specific data.	
Skin	:	No specific data.	
Eyes	:	No specific data.	
Medical conditions aggravated :		Pre-existing skin disorders may be aggravated by over-exposure to this	
by over-exposure product.			
See toxicological information (Section 11)			

3. Composition/information on ingredients

Name	CAS number	%
Limestone	1317-65-3	>3 - <=5
2,4,6,8-tetramethyl-1,3,5,7-tetraoxacyclooctane	108-62-3	>3 - <=5

4. First aid measures

Eye contact	:	Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.
Skin contact	:	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.
Inhalation	:	Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention immediately.
Ingestion	:	Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.
Notes to physician	:	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5. Fire-fighting measures

Flammability of the product	:	No specific fire or explosion hazard.	
Extinguishing media			
Suitable Not suitable	:	Use an extinguishing agent suitable for the surrounding fire. None known.	
Special exposure hazards	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.	
Hazardous thermal decomposition products	:	Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides	
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self- contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.	

6. Accidental release measures

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Personal precautions		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. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).		
Environmental precautions	:	Do not contaminate water when disposing of equipment washwaters. Do not apply directly to or near water, storm drains, gutters, sewers, or drainage ditches.		
Methods for cleaning up				
Small spill		Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.		
Large spill		Move containers from spill area. Approach release from upwind. 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.		
7. Handling and storage				
dri har eat pro cor app wh		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. Do not ingest. Avoid contact with eyes, skin and clothing. 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.		
Storage :		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.		

8. Exposure controls/personal protection

Occupational exposure limits

Ingredient	Exposure limits	
Limestone	OSHA PEL (1993-06-30) PEL: Permissible Exposure Level	
	15 mg/m3 Form: Total dust	
	OSHA PEL (1993-06-30) PEL: Permissible Exposure Level	
	5 mg/m3 Form: Respirable fraction	
	OSHA PEL (1993-06-30) PEL: Permissible Exposure Level	
	15 mg/m3 Form: Total dust	
	OSHA PEL (1993-06-30) PEL: Permissible Exposure Level	
	5 mg/m3 Form: Respirable fraction	

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ſ	NIOSH REL (1994-06-01) Time Weighted Average (TWA)
	10 mg/m3 Form: Total
	NIOSH REL (1994-06-01) Time Weighted Average (TWA)
	5 mg/m3 Form: Respirable fraction

Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures Engineering measures Hygiene measures		 If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to nation guidance documents for methods for the determination of hazardous substances will also be required. No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits. 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.		
Personal protection				
Respiratory	:	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.		
Hands : Che stan risk spec still brea mar		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.		
Eyes	:	Protective eyewear is not required, but may be used in situations were contact is expected.		
Skin	:	Wear long-sleeved shirt, long pants, shoes with socks. Remove and wash contaminated clothing before reuse.		
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.		

9. Physical and chemical properties

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Physical state	:	solid [pellets]
Flash point	:	Not Applicable
Burning time	:	Not Applicable
Auto-ignition temperature	:	Not Applicable
Flammable limits	:	Not Applicable
Density	:	
Color	:	Brown.
Odor	:	Wheat-flour smell
рН	:	Not Applicable
Boiling/condensation point	:	Not Applicable
Melting/freezing point	:	Not Applicable
Relative density	:	Not Applicable
Vapor pressure	:	Not Applicable
Vapor density	:	Not Applicable
Volatility	:	Not Applicable
Odor threshold	:	Not Applicable
Evaporation rate	:	Not Applicable
Viscosity	:	Not Applicable
Solubility	:	Not Applicable
Solubility in water	:	Not Applicable

10. Stability and reactivity

Chemical stability Conditions to avoid Incompatible materials	:	The product is stable. No specific data. No specific data.
Hazardous decomposition products Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous reactions will not occur.

11. Toxicological information

<u>Acute toxicity</u> Product/ingredient name	Result	Species	Dose	Exposure
Product	LD50 Oral	Rat	3,932 - 5,444	-
Tioudet	LD50 Olui	ixat	mg/kg	
Product	LD50 Dermal	Rabbit	5,000 mg/kg	-
Conclusion/Summary	Hazards to hur	nans and domes	tic animals	
Irritation/Corrosion	N 1'	• •, ,•		
Skin	May cause ski			
Eyes	May cause eye			
Respiratory	May cause res	piratory irritation	n	
<u>Sensitizer</u>				
Conclusion/Summary	Skin	Not sensitizing	- based on the individ	dual components.
	Respiratory	Not sensitizing	- based on the individ	dual components.
Channin Anninitar				
Chronic toxicity				
Conclusion/Summary	No known significant effects or critical hazards.			
Carcinogenicity				
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Product/ingredient name Conclusion/Summary	Result	Species No known significant effe	Dose ects or critical hazards	Exposure
<u>Mutagenicity</u> Conclusion/Summary		No known significant effe	ects or critical hazards	
<u>Teratogenicity</u> Product/ingredient name Conclusion/Summary	Result	Species No known significant effe	Dose ects or critical hazards	Exposure
<u>Reproductive toxicity</u> Conclusion/Summary		No known significant effe	ects or critical hazards	

12. Ecological information		
Ecotoxicity	: The product is toxic to birds, mammals, and mollusks (e.g. clams, oysters, scallops, mussels).	

Aquatic ecotoxicity

Product/ingredient name		Result	Species	Exposure
2,4,6,8-tetramethyl-1,3,5,7-				
tetraoxacyclooctane				
		Acute LC50 149.8 mg/l	Fish - Bluegill	4 d
		Fresh water		
Conclusion/Summary	:	No known significant effects	or critical hazards.	
<u>Persistence/degradability</u> Conclusion/Summary	:	No known significant effects	or critical hazards.	
Partition coefficient: n- octanol/water	:	: No known significant effects or critical hazards.		
Other adverse effects	:	No known significant effects	or critical hazards.	
13. Disposal consideratio	ons			

Waste disposal

Disposal should be in accordance with applicable regional, national and local laws and regulations.

14.Transport information

Regulatory					
<i>information</i>	<u>UN no.</u>	Proper shipping name	Class	PG*	<u>Note</u>
DOT		Not Regulated			
IATA (C)		Not Regulated			
IATA (P)					
IMDG		Not Regulated			
TDG		Not Regulated			
PG* : Packing	g group				
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15.Regulatory information

United	States
Unitu	States

U.S. Federal regulations	:	 United States - TSCA 12(b) - Chemical export notification: None of the components are listed. United States - TSCA 8(a) - Inventory update rule (IUR): Not determined SARA 302/304/311/312 extremely hazardous substances: No products were found. SARA 302/304 emergency planning and notification: No products were found. SARA 302/304/311/312 hazardous chemicals: No products were found. SARA 302/304/311/312 hazardous chemicals: No products were found. SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Limestone: Acu 2,4,6,8-tetramethyl-1,3,5,7-tetraoxacyclooctane: Acu, Del, Fire hazard - flammable, combustible liquid, pyrophoric Sulfur: Acu, Fire hazard - flammable, combustible liquid, pyrophoric
United States inventory (TSCA 8b)	:	All components are listed or exempted.
<u>State regulations</u> Massachusetts	:	The following components are listed: Limestone 2,4,6,8-tetramethyl- 1,3,5,7-tetraoxacyclooctane Sulfur
New York	:	None of the components are listed.
New Jersey	:	The following components are listed: Limestone 2,4,6,8-tetramethyl- 1,3,5,7-tetraoxacyclooctane Sulfur
Pennsylvania	:	The following components are listed: Limestone 2,4,6,8-tetramethyl- 1,3,5,7-tetraoxacyclooctane Sulfur
California Prop. 65	:	Not listed
International regulations		
Canada inventory	:	At least one component is not listed.
Ta M Ja Cl Ko Ne lisi	iwan alays pan i nina i orea i ew Ze ted.	 ia inventory (AICS): At least one component is not listed. ia inventory (CSNN): Not determined. ia Inventory (EHS Register): Not determined. nventory: At least one component is not listed. nventory (IECSC): At least one component is not listed. inventory: At least one component is not listed. ealand Inventory of Chemicals (NZIoC): At least one component is not listed. ines inventory (PICCS): At least one component is not listed.

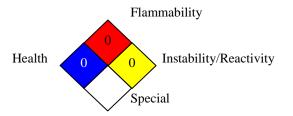
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16.Other information

Hazardous Material Information System (U.S.A.) :				
Health	1			
Flammability	0			
Physical hazards	0			

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868. The customer is responsible for determining the PPE code for this material.

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



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