

# Material Safety Data Sheet

**ENFORCER**

Zep Commercial Sales & Service  
A unit of Zep Inc.  
1310 Seaboard Industrial Blvd.  
Atlanta, GA 30318  
1-888-805-HELP (4357)  
www.enforcer.com

## Section 1. Chemical Product and Company Identification

**Product name** Enforcer BugMax240 8 Month Home Pest Control

**Product code** EBMEM

**Date of issue** 03/10/10 **Supersedes** 08/03/04

This product is a registered pesticide. EPA ID No. 73049-71-40849

### Emergency Telephone Numbers

#### For MSDS Information:

Compliance Services 404-352-1680

#### For Medical Emergency

(877) 541-2016 Toll Free - All Calls Recorded

#### For Transportation Emergency

CHEMTREC: (800) 424-9300 - All Calls Recorded

In the District of Columbia (202) 483-7616

#### Prepared By

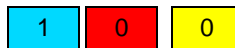
Compliance Services  
1420 Seaboard Industrial Blvd.  
Atlanta, GA 30318

## Section 2. Hazards Identification

### Emergency overview

\*Hazard Determination System (HDS): Health, Flammability, Reactivity

CAUTION



MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION.  
MAY BE HARMFUL IF ABSORBED THROUGH SKIN.

**NOTE:** MSDS data pertains to the product as delivered in the original shipping container(s). Risk of adverse effects are lessened by following all prescribed safety precautions, including the use of proper personal protective equipment.

### Acute Effects

#### Routes of Entry

Dermal contact. Inhalation.

#### Eyes

Dust may cause mechanical irritation to eye. Inflammation of the eye is characterized by redness, watering and itching.

#### Skin

May cause skin irritation. May be harmful if absorbed through the skin. Skin inflammation is characterized by itching, scaling, or reddening.

#### Inhalation

Avoid breathing dust. Over-exposure by inhalation may cause respiratory irritation.

#### Ingestion

May be harmful if swallowed. Can cause gastrointestinal disturbances.

### Chronic effects

Repeated exposure of the eyes to a low level of dust can produce eye irritation. Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

### Carcinogenicity

Contains material which can cause cancer. Risk of cancer depends on duration and level of exposure.

### Product/ingredient name

ACGIH

IARC

EPA

NIOSH

NTP

OSHA

Deltamethrin

-

3

-

-

-

-

Additional Information: See Toxicological Information (Section 11)

## Section 3. Composition/Information on Ingredients

### Name of Hazardous Ingredients

### CAS number

### % by Weight

CALCIUM CARBONATE; calcite, chalk

471-34-1

>90

Magnesium Carbonate

546-93-0

1 - 10

Deltamethrin

52918-63-5

0.05

## Section 4. 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 immediately.

### Skin Contact

Flush affected skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if irritation develops.

### Inhalation

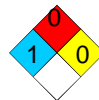
Move exposed person to fresh air. If irritation persists, get medical attention.

### Ingestion

Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If affected person is conscious, give plenty of water to drink. Get medical attention immediately.

**Section 5. Fire Fighting Measures**

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



<b>Flash Point</b>	Not available.
<b>Flammable Limits</b>	Not available.
<b>Flammability</b>	Not available.
<b>Fire hazard</b>	No specific fire or explosion hazard. May emit toxic fumes under fire conditions.
<b>Fire-Fighting Procedures</b>	Use an extinguishing agent suitable for the surrounding fire. Do not release runoff from fire to drains or watercourses.

**Section 6. Accidental Release Measures**

**Spill Clean up** Put on appropriate personal protective equipment (see section 8). Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container.

**Section 7. Handling and Storage**

<b>Handling</b>	Put on appropriate personal protective equipment (see section 8). Observe label precautions. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Do not ingest. Use with adequate ventilation. Empty containers retain product residue and can be hazardous. Do not reuse container. Apply this product only as specified on the label. Wash thoroughly after handling.
<b>Storage</b>	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. Do not store in unlabeled containers. Keep out of the reach of children.

**Section 8. Exposure Controls/Personal Protection****Product name**

CALCIUM CARBONATE; calcite, chalk

**Exposure limits****OSHA PEL (United States).**TWA: 5 mg/m<sup>3</sup> 8 hour(s). Form: Respirable dust**OSHA PEL (United States, 11/2006).**TWA: 5 mg/m<sup>3</sup> 8 hour(s). Form: Respirable fractionTWA: 15 mg/m<sup>3</sup> 8 hour(s). Form: Total dust**OSHA PEL 1989 (United States, 3/1989).**TWA: 5 mg/m<sup>3</sup> 8 hour(s). Form: Respirable fractionTWA: 15 mg/m<sup>3</sup> 8 hour(s). Form: Total dust**NIOSH REL (United States, 6/2008).**TWA: 5 mg/m<sup>3</sup> 10 hour(s). Form: Respirable fractionTWA: 10 mg/m<sup>3</sup> 10 hour(s). Form: Total**OSHA PEL (United States, 11/2006).**TWA: 5 mg/m<sup>3</sup> 8 hour(s). Form: Respirable fractionTWA: 15 mg/m<sup>3</sup> 8 hour(s). Form: Total dust

Magnesium Carbonate

**Personal Protective Equipment (PPE)**

<b>Eyes</b>	Safety glasses.
<b>Body</b>	Recommended: Nitrile gloves. Neoprene gloves.
<b>Respiratory</b>	If dust is generated and ventilation is inadequate, use respirator that will protect against dust/mist.

**Section 9. Physical and Chemical Properties**

<b>Physical State</b>	Solid. [Powder.]	<b>Color</b>	White.
<b>pH</b>	Not applicable	<b>Odor</b>	Odorless.
<b>Boiling Point</b>	Not applicable.	<b>Vapor Pressure</b>	Not applicable
<b>Specific Gravity</b>	Not available.	<b>Vapor Density</b>	Not applicable.
<b>Solubility</b>	Insoluble in the following materials: cold water and hot water.	<b>Evaporation Rate</b>	Not applicable.
		<b>VOC (Consumer)</b>	Not applicable.

**Section 10. Stability and Reactivity**

<b>Stability and Reactivity</b>	The product is stable.
<b>Incompatibility</b>	Slightly reactive or incompatible with the following materials: acids and alkalis.
<b>Hazardous Polymerization</b>	Will not occur.
<b>Hazardous Decomposition Products</b>	carbon oxides (CO, CO <sub>2</sub> )

**Section 11. Toxicological Information****Acute Toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Carbonic acid calcium salt (1:1)	LD50 Oral	Rat	6450 mg/kg	-
	TDLo Oral	Rat	60 g/kg	-
	TDLo Oral	Rat	10 mg/kg	-
Carbonic acid, magnesium salt (1:1) Deltamethrin	LD50 Oral	Rat	8000 mg/kg	-
	LD50 Dermal	Rabbit	2 g/kg	-
	LD50 Dermal	Rat	>800 mg/kg	-
	LD50 Intravenous	Rat	2.6 mg/kg	-
	LD50 Intravenous	Rat	2526 ug/kg	-
	LD50 Oral	Rat	150 mg/kg	-
	LD50 Oral	Rat	5.1 mg/kg	-
	LD50 Oral	Rat	9360 ug/kg	-
	LD50 Unreported	Rat	150 mg/kg	-
	LDLo Oral	Rat	10 mg/kg	-
	LDLo Unreported	Rat	10 mg/kg	-
	TDLo Intraperitoneal	Rat	60 mg/kg	-
	TDLo Intraperitoneal	Rat	20 mg/kg	-
	TDLo Intraperitoneal	Rat	10 mg/kg	-
	TDLo Intravenous	Rat	2 mg/kg	-
	TDLo Intravenous	Rat	1 mg/kg	-
	TDLo Intravenous	Rat	0.15 mg/kg	-
	TDLo Intravenous	Rat	0.05 mg/kg	-
	TDLo Oral	Rat	30 mg/kg	-
	TDLo Oral	Rat	10 mg/kg	-
	TDLo Oral	Rat	7.2 mg/kg	-
	TDLo Oral	Rat	3 mg/kg	-
	TDLo Oral	Rat	2 mg/kg	-
TDLo Oral	Rat	1 mg/kg	-	
TDLo Unreported	Rat	10 mg/kg	-	
LC50 Inhalation Vapor	Rat	785 mg/m3	2 hours	

**Section 12. Ecological Information****Environmental Effects**

Toxic to aquatic organisms. Toxic to bees. Keep out of waterways.

**Aquatic Ecotoxicity**

Product/ingredient name	Test	Result	Species	Exposure
Carbonic acid calcium salt (1:1)	-	Acute LC50 >56000000 ug/L Fresh water	Fish - Western mosquitofish - Gambusia affinis - Adult	96 hours
	-	Acute EC50 0.18 ppb Fresh water	Daphnia - Water flea - Daphnia magna - <24 hours	48 hours
Deltamethrin	-	Acute EC50 0.11 ppb Fresh water	Daphnia - Water flea - Daphnia magna - <24 hours	48 hours
	-	Acute EC50 0.85 ug/L Fresh water	Daphnia - Water flea - Daphnia magna - Adult	48 hours
	-	Acute EC50 0.15 ug/L Fresh water	Daphnia - Water flea - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling) - 4 to 5 days	48 hours
	-	Acute EC50 0.05 ug/L Fresh water	Daphnia - Water flea - Daphnia magna - Adult	48 hours
	-	Acute EC50 0.031 ug/L Fresh water	Daphnia - Water flea - Daphnia magna - Neonate - 6 to 24 hours	48 hours
	-	Acute EC50 0.029 ug/L Fresh water	Daphnia - Water flea - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling) - 48 to 72 hours	48 hours
	-	Acute LC50 1.5 ppb Fresh water	Fish - Bluegill - Lepomis macrochirus	96 hours
	-	Acute LC50 1.4 ppb Fresh water	Fish - Bluegill - Lepomis macrochirus	96 hours
	-	Acute LC50 0.91 ppb Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss	96 hours
	-	Acute LC50 0.58 ppb Marine water	Fish - Sheepshead minnow - Cyprinodon variegatus	96 hours
	-	Acute LC50 0.49 ppb Marine water	Fish - Sheepshead minnow - Cyprinodon variegatus	96 hours
	-	Acute LC50 0.39 ppb Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss	96 hours

-	Acute LC50 0.36 ppb Fresh water	Fish - Bluegill - Lepomis macrochirus	96 hours
-	Acute LC50 0.25 ppb Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss	96 hours
-	Acute LC50 1.86 ug/L Fresh water	Fish - Indian catfish - Heteropneustes fossilis - Adult - 38 to 47 g	96 hours
-	Acute LC50 0.05 ug/L Fresh water	Daphnia - Water flea - Daphnia magna	48 hours
-	Acute LC50 0.038 ug/L Fresh water	Daphnia - Water flea - Daphnia magna - Neonate - 6 to 24 hours	48 hours
-	Acute LC50 0.037 ug/L Fresh water	Daphnia - Water flea - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling) - 48 to 72 hours	48 hours

### Section 13. Disposal Considerations

#### Waste Information

Waste must be disposed of in accordance with federal, state and local environmental control regulations. Consult your local or regional authorities for additional information.

**Waste Stream** Non-hazardous waste

### Section 14. Transport Information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label
<b>DOT Classification</b>	Not regulated.	Not a DOT controlled material (United States).	-	-	
<b>TDG Classification</b>	Not regulated.	Not a TDG-controlled material.	-	-	

**NOTE:** DOT classification applies to most package sizes. For specific container size classifications or for size exceptions, refer to the Bill of Lading with your shipment.

PG\* : Packing group

### Section 15. Regulatory Information

#### U.S. Federal Regulations

SARA 313 toxic chemical notification and release reporting:

No products were found.

**Clean Water Act (CWA) 307:** No products were found.

**Clean Water Act (CWA) 311:** No products were found.

**Clean Air Act (CAA) 112 regulated toxic substances:** No products were found.

All Components of this product are listed or exempt from listing on TSCA Inventory.

**United States inventory (TSCA 8b):** Not determined.

#### State Regulations

##### California Prop 65

**WARNING:** This product contains a chemical or chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.:  
Carbonic acid calcium salt (1:1)

#### Canada

##### WHMIS (Canada)

Class D-1B: Material causing immediate and serious toxic effects  
(Toxic).

### Section 16. Other Information

*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.*

\*NOTE: Hazard Determination System (HDS) ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although these ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HDS ratings are to be used with a fully implemented program to relay the meanings of this scale.