

Gulfstream Home and Garden
2030 Powers Ferry Road, Suite 370
Atlanta, GA 30339

Consumer Service/General Questions: 866-945-5033
Medical (Human or Animal): 800-420-9347
Spills: 800-424-9300

1. PRODUCT IDENTIFICATION

Product Name: Maxide Dual Action Grub Killer

Item Number: 1110, 1136, 1135

EPA Signal Word: CAUTION

Active Ingredient (%): Thiamethoxam (0.22%) CAS No.: 153719-23-4

Chemical Name: 4H-1,3,5-Oxadiazin-4-imine,3-[(2-chloro-5-thiazolyl) methyl]tetrahydro-5-methyl-N-nitro

Chemical Class: Neonicotinoid Insecticide

EPA Registration Number(s): 100-1289-85579

2. COMPOSITION/INFORMATION ON INGREDIENTS

Material	OSHA PEL	ACGIH TLV	Other	NTP/IARC/OSHA Carcinogen
Starch	15 mg/m ³ (total) TWA; 5 mg/m ³ (resp) TWA	10 mg/m ³ TWA	10 mg/m ³ (total) TWA; 5 mg/m ³ (resp) TWA**	No
Limestone(Calcium Carbonate)	15 mg/m ³ ; 5 mg/m ³ (respirable TWA)	10 mg/m ³ (inhalable) TWA; 3 mg/m ³ (respirable)	None	No
Crystalline Silica, Quartz	10 mg/m ³ (%SiO ₂ +2) (respirable dust)	0.025 mg/m ³ (respirable silica)	0.05 mg/m ³ (respirable dust)**	IARC 1; ACGIH 1
Wood Dust	15 mg/m ³ TWA (total), 5 mg/m (resp)	5 mg/m ³ TWA (softwood total dust)	1 mg/m ³ TWA (REL)**	IARC Group 1
Thiamethoxam (0.22%)	Not established	Not established	3 mg/m ³ TWA***	No

** recommended by NIOSH

*** Gulfstream Occupational Exposure Limit (OEL)

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

Gulfstream Hazard Category: B, S

3. HAZARDS IDENTIFICATION

Health and Environmental

Causes mild eye and skin irritation

Hazardous Decomposition Products

None known

Physical Properties

Appearance: Brown Granules
Odor: Not determined

Unusual Fire, Explosion and Reactivity Hazards

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

4. FIRST AID MEASURES

Have the product container, label or Material Safety Data Sheet with you when calling a poison control center or doctor, or going for treatment.

Ingestion: If swallowed: Call 800-420-9347, a poison control center or doctor immediately for treatment advice. Have the person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so after calling 800-420-9347 or by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

Eye Contact: If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call 800-420-9347, a poison control center or doctor for treatment advice.

Skin Contact: If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call 800-420-9347, a poison control center or doctor for treatment advice.

Inhalation: In inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call 800-420-9347, a poison control center or doctor for further treatment advice.

Notes to Physician

There is no specific antidote if this product is ingested. Treat symptomatically.

Medical Condition Likely to be Aggravated by Exposure: None known

5. FIRE FIGHTING MEASURES

Fire and Explosion

Flash Point (Test Method): Not Available
Flammable Limits (% in Air): Lower: Not applicable Upper: Not applicable
Autoignition Temperature: Not available
Flammability: Not available

Unusual Fire, Explosion and Reactivity Hazards

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

In Case of Fire

Use dry chemical, foam or CO2 extinguishing media. Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area and equipment until decontaminated. Water runoff can cause environmental damage. If water is used to fight fire, dike and collect runoff.

6. ACCIDENTAL RELEASE MEASURES

In Case of Spill or Leak:

Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering the sewage drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in Section 8. Sweep up material and place in a compatible disposal container. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

7. HANDLING AND STORAGE

Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THIS PRODUCT.

Ingestion: Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Eye Contact: Where eye contact is likely, dust-proof chemical goggles.

Skin Contact: Where contact is likely, wear chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyvinyl chloride [PVC] or Viton), coveralls, socks, and chemical-resistant footwear. For overhead exposure, wear chemical-resistant headgear.

Inhalation: A respirator is not normally required when handling this substance. Use effective engineering controls to comply with occupational exposure limits.

In case of emergency spills, use a NIOSH approved respirator with any N, R, or P or HE filter.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Brown Granules

Odor: Not determined

Melting Point: Not available

Boiling Point: Not applicable

Specific Gravity/Density: 0.77 g/ml

pH: 7.55 (1% solution in deionized H₂O @ 77 degrees F [25 degrees C])

Solubility in H₂O

Thiamethoxam: 4.1 g/l @ 77 degrees F (25 degrees C)

Vapor Pressure

Thiamethoxam: 2 x 10⁻¹¹ mmHg @ 68 degrees F (20 degrees C)

10. STABILITY AND REACTIVITY

Stability: Stable under normal use and storage conditions
Hazardous Polymerization: Will not occur
Conditions to Avoid: Not known
Materials to Avoid: Not known
Hazardous Decomposition Products: None known

11. TOXICOLOGICAL INFORMATION

Acute Toxicity/Irritation Studies (Finished Product)

Ingestion: Oral (LD50 Rat): > 5000 mg/kg body weight (based on a substantially similar formulation)
Dermal: Dermal (LD50 Rabbit): >5050 mg/kg body weight (based on a substantially similar formulation)
Inhalation: Inhalation (LC50 Rat): Not available
Eye Contact: Minimally Irritating (Rabbit) (based on a substantially similar formulation)
Skin Contact: Practically Non-Irritating (Rabbit) (based on a substantially similar formulation)
Skin Sensitization: Not a Sensitizer (Guinea Pig) (based on a substantially similar formulation)

Reproductive/Developmental Effects

Thiamethoxam: Developmental: Not teratogenic in rats or rabbits.
Reproductive: No effects on reproduction. Minor increase in a common testis effect in rats at high doses, which did not affect reproduction. When used in accordance with label directions and recommendations in this MSDS, no effects would be expected in humans.

Chronic/Subchronic Toxicity Studies

Thiamethoxam: Subchronic: Liver effects occurred in rodents only at high dose levels. Not neurotoxic after after high acute and subchronic exposure in rats.

Carcinogenicity

Thiamethoxam Classified as “not likely to be carcinogenic in humans” based on lifetime studies in mice and rats.

Other Toxicity Information

None

Toxicity of Other Components

Limestone (Calcium Carbonate): Excessive contact with powder can cause drying of mucous membranes of nose, eyes, and throat due to absorption of moisture and oils. Continued long-term contact may affect respiratory function.

Starch: May cause eye and skin irritation. May cause respiratory tract irritation. Low hazard for usual industrial handling.

Wood Dust: Wood dust may cause mechanical irritation to the eye. Wood dust of certain species can elicit allergic contact dermatitis in sensitized individuals. Inhalation of wood dust may cause obstruction in nasal passages.

Target Organs

Active Ingredients: Thiamethoxam: Liver

Inert Ingredients: Limestone (Calcium Carbonate): Respiratory tract
Starch: Eye, skin, respiratory tract
Wood Dust: Eye, skin, nasal passages

12. ECOLOGICAL INFORMATION

Summary of Effects: Thiamethoxam: Harmful to aquatic life.

Ecotoxicity Effects: Thiamethoxam:
Fish (Rainbow Trout) 96-hour LC50>100 ppm
Bird (Mallard Duck) LF50 Oral 576 mg/kg
Invertebrate (Daphnia Magna) 48-hour ED50>106 ppm
Green Algae 4-day EC50>97 ppm

Environmental Fate: Thiamethoxam: The information presented here is for the active ingredient, thiamethoxam. Not persistent in soil. Stable in water. Moderate mobility in soil. Floats in water (after 24 h).

13. DISPOSAL CONSIDERATIONS

Disposal: Do not reuse product containers. Dispose of product containers, waster containers, and residues according to local, state and federal health and environmental regulations.

Characteristic Waste: Not applicable

Listed Waste: Not applicable

14. TRANSPORT INFORMATION

DOT Classification: Ground Transport – NAFTA
Not regulated.

Air Transport – NAFTA
Not regulated

B/L Freight Classification: Insecticides, NOI, O/T Poison

Comments: Water Transport – International
Not regulated

Air Transport – International
Not regulated

15. REGULATORY INFORMATION

EPCRA SARA Title III Classification

Section 311/312/ Hazard Classes: Acute Health Hazard

Section 313 Toxic Chemicals: Not applicable

California Proposition 65: Not applicable

CERCLA/SARA 302 Reportable Quantity (RQ): None

RCRA Hazardous Waste Classification (40 CFR 261): Not applicable

TSCA Status: Exempt from TSCA, subject to FIFRA

16. OTHER INFORMATION

NFPA Hazard Ratings

Health: 1
Flammability: 1
Instability: 0

HMIS Hazards Ratings

Health: 1
Flammability: 1
Reactivity: 0

0	Minimal
1	Slight
2	Moderate
3	Serious
4	Extreme

For non-emergency questions about this product call: 866-945-5033

Revised date: September 2009

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein.

End of MSDS