

Material Safety Data Sheet

Product Name: GRUB - NO - MORE Granules

MSDS No.: 526-5

Version No.: 001

EPA Registration No.: 2217-909

1. Basic Information:

Manufacturer: PBI/Gordon Corporation
Address: 1217 West 12th Street
City, State Zip: Kansas City, MO 64101-1407
Information Contact: Environmental, Health, & Safety Dept.
Information Telephone Number: (816)421-4070
Emergency Contact: Chemtrec
Emergency Telephone Number: (800)424-9300



1	Health
1	Flammability
0	Reactivity
B	Pers. Protection

Last Update: 10/17/2007

Chemical State: Liquid Gas Solid
Chemical Type: Pure Mixture

2. Ingredients:

Trade Secret (ND = Not Disclosed)

CAS No.	Chemical Name	% Range	EHS		IARC		SARA 313		OSHA PEL	ACGIH TLV	Other Limits
			NTP	SUB Z							
138261413	Imidacloprid, 1-[(6-chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinime	0.20%	N	N	N	N	N	NI	NI	NI	

3. Hazardous Identification:

Hazard Category:

Acute Chronic Fire Pressure Reactive

Hazardous Identification Information:

4. First Aid Measures:

Route(s) of Entry:

Contact; eyes, skin; oral.

Health Hazards (Acute and Chronic):

HEALTH HAZARDS: Mildly irritating to the eyes and skin. May be harmful if swallowed.

SKIN: Contact may irritate skin.

INHALATION: Overexposure may irritate the respiratory tract.

INGESTION: Overexposure by ingestion may irritate the gastrointestinal tract.

Signs and Symptoms:

NI

Medical Conditions Generally Aggravated by Exposure:

NI

Emergency First Aid Procedure:

IF SWALLOWED:

--Call physician or Poison Control Center immediately. --Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger.

--Do not induce vomiting or give anything by mouth to an unconscious person.

IF IN EYES:

--Immediately flush eyes with water for at least 15 minutes.

--Get medical attention if irritation persists.

IF ON SKIN:

First Aid Measures (Continued)

--Remove contaminated clothing.
 --Wash skin with plenty of soap and water.
 --Get medical attention if irritation persists.

Other Health Warnings:

NOTE TO PHYSICIAN: No specific antidote available, treat symptomatically.

5. Fire Fighting Measures:

Flash Point: NI F.P. Method: NI

Lower Explosive Limit: NI

Upper Explosive Limit: NI

Fire Extinguishing Media:

EXTINGUISHING MEDIA: Use foam, dry chemical, carbon dioxide, or water spray when fighting fires involving this material.

FIRE FIGHTING INSTRUCTIONS: Evacuate area and fight fire upwind from a safe distance to avoid hazardous vapors and decomposition products. Dike and collect water used to fight fire to prevent environmental damage due to run off. Foam or dry chemical fire extinguishing systems are preferred to prevent environmental damage from excessive water run off.

FIRE FIGHTING EQUIPMENT: Self-contained breathing apparatus with full facepiece

Special Fire Fighting Procedures:

EXTINGUISHING MEDIA: Use foam, dry chemical, carbon dioxide, or water spray when fighting fires involving this material.

FIRE FIGHTING INSTRUCTIONS: Evacuate area and fight fire upwind from a safe distance to avoid hazardous vapors and decomposition products. Dike and collect water used to fight fire to prevent environmental damage due to run off. Foam or dry chemical fire extinguishing systems are preferred to prevent environmental damage from excessive water run off.

FIRE FIGHTING EQUIPMENT: Self-contained breathing apparatus with full facepiece

Unusual Fire and Explosion:

FIRE AND EXPLOSION HAZARD: Can burn in fire, releasing irritating

Material Safety Data Sheet

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Fire Fighting Measures (Continued)

and toxic gases due to thermal decomposition or combustion.

6. Accidental Release Measures:

Steps to be Taken in Case Material is Released or Spilled:

Clean up spills immediately, observing precautions in Section 8 of this document
Isolate hazard area. Keep unnecessary and unprotected personnel from entering.

SMALL SPILL: Vacuum or sweep up material and place in a container for reuse or disposal.

LARGE SPILL: Avoid creating dust cloud. Vacuum or sweep up material and place in a container for reuse or disposal. Reduce airborne dust and prevent scattering by moistening with water. Pick up wash liquid with additional absorbent and place in a disposable container. After removal, flush contaminated area thoroughly with water.

This material should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.

7. Handling and Storage:

Precautions to be Taken:

KEEP OUT OF REACH OF CHILDREN!

HANDLING: Use only in a well-ventilated area. Minimize dust generation and accumulation.

STORAGE: Keep container closed when not in use. Keep away from food, feed and drinking water. Store in a well ventilated dry place away from heat.

Other Precautions:

NI

8. Exposure Controls/Personal Protection:

Ventilation Requirements:

Good local ventilation.

Personal Protective Equipment:

EXPOSURE LIMITS (8 HOUR TWA): (Refer to Section 3)

ENGINEERING CONTROLS: Proper ventilation is required when handling or using this product to keep exposure below the exposure limit Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

PERSONAL PROTECTIVE EQUIPMENT:

EYE PROTECTION - Safety goggles

CLOTHING - Long-sleeved shirt and long pants, Shoes plus socks

GLOVES - Chemical-resistant gloves, made of any waterproof material

RESPIRATOR - Not required when handled under normal conditions. When handling in enclosed areas with inadequate ventilation, use a dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C)

Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS:

1. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet

Exposure Controls/Personal Protection (Continued)

2. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

9. Physical and Chemical Properties:

Boiling Point: NI

Melting Point: NI

Evaporation Rate (Butyl Acetate = 1) : NI

Vapor Pressure (mm Hg.): NI

Vapor Density (Air = 1): NI

Specific Gravity (H₂O = 1):

Solubility in Water: Insoluble

Appearance and Odor: Gray granule, No appreciable odor.

Other Information:

Density: 30 - 50 pounds/cubic foot

10. Stability and Reactivity:

Stability:

Stable, however, may decompose if heated.

Incompatibility (Materials to Avoid):

Avoid temperatures above 100°F (38°C) for prolonged period of time. Strong exothermic reaction can occur above 390°F (200°C)

INCOMPATIBILITY WITH OTHER MATERIALS: None known.

Decomposition/By-Products:

Hydrogen chloride, Oxides of nitrogen and carbon.

Hazardous Polymerization:

Product will not undergo polymerization.

11. Toxicological Information:

ACUTE TOXICITY:

Oral LD₅₀ (rat): >4,500

Dermal LD₅₀ (rat): >2,000 mg/kg

Inhalation LC₅₀ (rat): >5.0 mg/L

Eye Irritation (rabbit): Mild

Skin Irritation (rabbit): Slight

Sensitization (guinea pig): Non-sensitizer

CARCINOGEN STATUS:

OSHA -- Not listed,

NTP -- Not listed,

IARC -- Not listed,

MUTAGENIC DATA: Little or no evidence of mutagenic effects during in vivo or in vitro studies,

ADDITIONAL DATA: No reproductive or teratogenic (birth defect) effects at normal exposure levels,

12. Ecological Information:

ENVIRONMENTAL SUMMARY: This product is highly toxic to aquatic invertebrates, Keep out of water bodies. Extremely toxic to bees by direct exposure or residues on treated crop, Do not apply to or allow drift on blooming crops that bees may visit

FISH TOXICITY: (Technical)

96 hour LC₅₀, Rainbow trout: 211 mg/L

96 hour LC₅₀, Bluegill: unknown

AVIAN TOXICITY: (Technical)

Oral LD₅₀, Bobwhite quail: 152 mg/Kg

Oral LD₅₀, Mallard duck: unknown

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Ecological Information (Continued)

BEE TOXICITY:
Contact LD₅₀ - Highly toxic,

13. Disposal Considerations:

WASTE: Pesticide wastes are toxic, Dispose of in accordance with applicable Federal, state and local laws and regulations,

CONTAINER: Completely empty container into processing equipment
Then dispose of empty container in sanitary landfill or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke,

14. Transport Information:

The following guidelines apply for domestic ground transport. If shipping by air or ocean, please contact our Transportation Dept.

Freight Class: Insecticides, NOI - NMFC #102120

In our current available sizes, this product does not qualify as a Hazardous Material.

15. Regulatory Information:

OSHA STATUS: This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA STATUS: This product is exempt from TSCA Regulation under FIFRA Section 3(2)(B)(ii) when used as a pesticide.

CERCLA REPORTABLE QUANTITY: None

SARA TITLE III:

SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES: None

SECTION 311/312 HAZARD CATEGORIES: Immediate Health

Hazard

SECTION 313 TOXIC CHEMICALS: None

RCRA STATUS: If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

16. Other Information:

REASON FOR ISSUE: New MSDS in the ANSI Z400.1-1998 format

NOTE: NI means not indicated.

The information and statements in this Material Safety Data Sheet are believed to accurately reflect the scientific evidence used in making the hazard determination but is not to be construed as a warranty or representation for which we assume legal responsibility. Additional information may be necessary or desirable depending on particular, exceptional or variable conditions or circumstances of use or storage or because of locally applicable laws or government regulations. Therefore, you should use this information only as a supplement to other information available to you and must make independent determinations of the suitability of the information for your particular circumstances or conditions and of the completeness of the information available from all sources to assure both the proper use of the material described herein and the safety and health of employees.