

Material Safety Data Sheet

Product Name: GRUB - NO - MORE Granules

MSDS No.: 526-5

Version No.: 002

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: 11/16/2009

Chemical State: Liquid Gas Solid
Chemical Type: Pure Mixture

2. Ingredients:

Trade Secret (ND = Not Disclosed)

CAS No.	Chemical Name	% Range	EHS	NTP	IARC	SUB Z	SARA 313	OSHA PEL	ACGIH TLV	Other Limits
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 a poison control center or doctor immediately for treatment advice.
 Have person sip a glass of water if able to swallow.
 Do not induce vomiting unless told to do so by a poison control center or doctor.
 Do not give anything by mouth to an unconscious person.

IF ON SKIN OR CLOTHING:
 Take off contaminated clothing.
 Rinse skin immediately with plenty of water for 15 to 20 minutes.
 Call a poison control center or doctor for treatment advice.

First Aid Measures (Continued)

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.
 Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
 Call a poison control center or doctor for treatment advice.

IF INHALED:
 Move person to fresh air.
 If person is not breathing, call 911 or an ambulance, then give artificial respiration.
 Call a poison control center or doctor for further treatment advice.

Other Health Warnings:
 Have the product container or label with you when calling a poison control center or doctor, or going for to a doctor. You may also contact 1-877-800-5556 for emergency medical information.
 Active Ingredient: 0.2% imidacloprid, CAS Registry No. 138261-41-3.

Note To Physician: No specific antidote is available. Treat the patient 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

Material Safety Data Sheet

Product Name: GRUB - NO - MORE Granules

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Fire Fighting Measures (Continued)

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 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:

Do not contaminate water, food, or feed by storage or disposal

Storage Conditions: Store in original container in a cool, dry place, out of the reach of children, preferably a locked storage cabinet.

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

Exposure Controls/Personal Protection (Continued)

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
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:

Material Safety Data Sheet

Product Name: GRUB - NO - MORE Granules

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Ecological Information (Continued)

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

BEE TOXICITY:
Contact LD₅₀ - Highly toxic,

Other Information (Continued)

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.

13. Disposal Considerations:

Disposal
If empty: Do not reuse container. Place in trash or offer for recycling if available.

If Partly Filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain

14. Transport Information:

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

Freight Class: PESTICIDES, NOI / NMFC No. 155050-6

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: General revision of the 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