

Material Safety Data Sheet

Product Name: imidiPro Systemic Insecticide

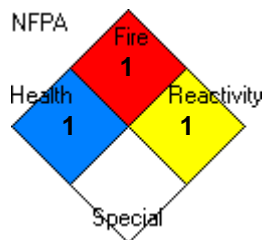
MSDS No.: 692-6

Version No.: 002

EPA Registration No.: 42750-115-2217

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 |
| 1 | Reactivity |
| B | Pers. Protection |

Last Update: 3/29/2010

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 | 21.4% | N | N | N | N | N | NI | NI | NI |

3. Hazardous Identification:

Hazard Category:
 Acute Chronic Fire Pressure Reactive

Hazardous Identification Information:
 Harmful if swallowed or absorbed through skin.

Can decompose at high temperatures releasing toxic gases.

4. First Aid Measures:

Route(s) of Entry:
 Ingestion, contact, inhalation.

Health Hazards (Acute and Chronic):
 Harmful if swallowed or absorbed through skin.

Signs and Symptoms:
 NI

Medical Conditions Generally Aggravated by Exposure:
 NI

Emergency First Aid Procedure:
If Swallowed:
 --Call physician or Poison Control Center immediately.
 --Have person sip a glass of water if able to swallow.
 --Do not induce vomiting unless told to do so by poison control center or doctor.
 --Do not give anything by mouth to an unconscious person.

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:
 --Remove victim to fresh air.
 --Get medical attention if symptoms develop.

First Aid Measures (Continued)

If On Skin:
 --Remove contaminated clothing.
 --Rinse skin immediately with plenty of water for 15 to 20 minutes.
 --Call a poison control center or doctor for treatment advice.

In case of emergency, call Rocky Mountain Poison Control Center 877-800-5556. Have the product container label with you when calling a poison control center or doctor, or going for treatment.

Other Health Warnings:
 NOTE TO PHYSICIAN: No specific antidote available. Treat symptomatically.

5. Fire Fighting Measures:

Flash Point: >212°F **F.P. Method:** NI

Lower Explosive Limit: NI

Upper Explosive Limit: NI

Fire Extinguishing Media:
 FIRE AND EXPLOSION HAZARD: Can burn in fire, releasing irritating and toxic gases due to thermal decomposition or combustion.

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

Special Fire Fighting Procedures:
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 runoff. Foam or dry chemical fire extinguishing systems are preferred to prevent environmental damage from excessive water runoff.

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.

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6. Accidental Release Measures:

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

Handle and open container in a manner as to prevent spillage. If the container is leaking or material spilled for any reason or cause, carefully sweep material into a pile. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Dispose of pesticide as directed below. In spill or leak incidents, keep unauthorized people away. You may contact Chemtrec at 800-424-9300 for decontamination procedures or any other assistance that may be necessary.

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

SMALL SPILL: Absorb small spills on sand, vermiculite or other inert absorbent. Place contaminated material in appropriate container for disposal.

LARGE SPILL: Dike large spills using absorbent or impervious material such as clay or sand. Recover and contain as much free liquid as possible for reuse. Allow absorbed material to solidify, and scrape up for disposal. After removal, clean contaminated area thoroughly with water. Pick up wash liquid with additional absorbent and place in disposal container.

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!

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

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:

Proper ventilation is required when handling or using this product to keep exposure to airborne contaminants 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. Chemical-resistant footwear plus socks.

Gloves: Chemical-resistant gloves, such as barrier laminates, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyvinyl chloride (PVC), viton.

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).

Wash thoroughly with soap and water after handling. After using this product, rinse gloves before removing. Discard clothing and other absorbent materials that have been heavily contaminated with this product. Do not reuse them. 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

Exposure Controls/Personal Protection (Continued)

laundry.

9. Physical and Chemical Properties:

Boiling Point: 320°C

Melting Point: NI

Evaporation Rate (Butyl Acetate = 1) : NI

Vapor Pressure (mm Hg.): See below

Vapor Density (Air = 1): NI

Specific Gravity (H2O = 1): 1.08000

Solubility in Water: Miscible

Appearance and Odor: Off White Viscous Liquid, No appreciable odor

Other Information:

Density: 9.01 pounds/gallon

pH = 8.9

Vapor Pressure (mm Hg): 1.5x10⁻⁹ @ 20°C for Imidacloprid

10. Stability and Reactivity:

Stability:

Stable however may decompose if heated. Avoid temperatures above 100°F (38°C) for prolonged periods of time. Strong exothermic reaction can occur above 390°F (200°C).

Incompatibility (Materials to Avoid):

None known. Avoid tem

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 mg/kg

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.

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.

12. Ecological Information:

ENVIRONMENTAL SUMMARY:

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Ecological Information (Continued)

This product is highly toxic to aquatic invertebrates. Keep out of water bodies.

Extremely toxic to bees by direct exposure or by residues on treated crop. Do not apply to, or allow to drift onto blooming crops that bees may visit.

13. Disposal Considerations:

CONTAINER DISPOSAL:

Non-refillable container. Do not reuse or refill this container. Offer for recycling, if available.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use for disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Handle and open container in a manner as to prevent spillage. If the container is leaking or material spilled for any reason or cause, carefully sweep material into a pile. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Dispose of pesticide as directed below. In spill or leak incidents, keep unauthorized people away. You may contact Chemtrec at 800-424-9300 for decontamination procedures or any other assistance that may be necessary.

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 #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: All the ingredients in this mixture are on the TSCA Chemical Substances Inventory or are exempt.

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

Regulatory Information (Continued)

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.