

Material Safety Data Sheet

Product Name: **BLADE Selective Herbicide For Turfgrass**

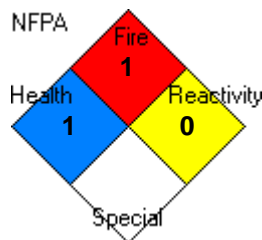
MSDS No.: 536-6

Version No.: 002

EPA Registration No.: 66222-164-2217

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 |
| 0 | Reactivity |
| | 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 |
|----------|--------------------|---------|-----|-----|------|-------|----------|----------|-----------|--------------|
| 74223646 | Metsulfuron-Methyl | 60.0% | N | N | N | N | N | NI | NI | 10 mg/m3 |

3. Hazardous Identification:

Hazard Category:
 Acute Chronic Fire Pressure Reactive
Hazardous Identification Information:

Fire Fighting Measures (Continued)

Upper Explosive Limit: NI
Fire Extinguishing Media: Water spray, Foam, Dry Chemical, CO2
Special Fire Fighting Procedures: Control Runoff from fire fighting as it may be a pollution hazard.

4. First Aid Measures:

Route(s) of Entry: Skin and eye absorption
Health Hazards (Acute and Chronic): Causes eye irritation and may cause skin irritation.
Signs and Symptoms: Tearing of eyes, pain or blurred vision. May cause skin itching, burning, redness, and swelling.
Medical Conditions Generally Aggravated by Exposure: NI
Emergency First Aid Procedure:
EYES: Immediately flush eyes with water for at least 15 minutes and get medical attention.
SKIN: Flush with soap and water. Get medical attention if irritation persists. Remove and launder all contaminated clothing.
INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen, and call a physician.
INGESTION: Call a physician or Poison Control Center.

Unusual Fire and Explosion: Like most powders, under severe dusting conditions, this material may form explosive mixtures in air.

6. Accidental Release Measures:

Steps to be Taken in Case Material is Released or Spilled: Contain spill, sweep up and store material in a closed container for future use or disposal. Wear appropriate protective equipment.

7. Handling and Storage:

Precautions to be Taken: PESTICIDE STORAGE: Always use original container to store pesticides in a secured warehouse or storage building. Do not store near open containers of fertilizers, seeds, or other pesticides. Do not contaminate water, food or feed by storage or disposal.
Other Precautions: NI

8. Exposure Controls/Personal Protection:

Ventilation Requirements: Use local exhaust ventilation for indoor operations.
Personal Protective Equipment: PERSONAL PROTECTIVE EQUIPMENT (PPE) Some materials that are chemical resistant to this product are listed below. If you want more options, follow the instructions for category A on an EPA chemical resistance category selection chart. Applicators and other handlers must wear:
 • Long-sleeved shirt and long pants.

5. Fire Fighting Measures:

Flash Point: > 200° F **F.P. Method:** Tag Closed Cup
Lower Explosive Limit: NI

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Exposure Controls/Personal Protection (Continued)

ENGINEERING CONTROL STATEMENTS:

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240 (d) (4-6), the handler PPE requirements may be reduced or modified as specified in the WPS.

IMPORTANT: When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "applicators and other handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment break-down.

- Shoes plus socks
 - Chemical resistant (category A) gloves such as butyl rubber, natural rubber, neoprene rubber, or nitrile rubber.
- Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

9. Physical and Chemical Properties:

Boiling Point: NI

Melting Point: NI

Evaporation Rate (Butyl Acetate = 1): <1

Vapor Pressure (mm Hg.): NI

Vapor Density (Air = 1): NI

Specific Gravity (H₂O = 1): 1.47000

Solubility in Water: Dispersable

Appearance and Odor: Odorless off-white granules

Other Information:

Bulk Density: 33.9 pounds per cubic foot

10. Stability and Reactivity:

Stability:

Stable

Incompatibility (Materials to Avoid):

None known

Decomposition/By-Products:

None known

Hazardous Polymerization:

Polymerization will not occur

11. Toxicological Information:

Metsulfuron-methyl

Oral LD50: >5000 mg/kg in rats

Skin LD50: >2000 mg/kg in rabbits

Inhalation LC50, 4 hr: >5.3 mg/L in rats

12. Ecological Information:

ENVIRONMENTAL HAZARDS

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply where runoff water may flow during periods of intense rainfall or to water saturated soils, as off-target movement and injury may occur. Do not contaminate

water when disposing of equipment washwaters. Do not apply this product through any type of irrigation system.

Metsulfuron-methyl

Ecological Information (Continued)

AQUATIC TOXICITY: 96 hour LC50 - Rainbow trout: >150 ppm
96 hour LC50 - Bluegill sunfish: >150 ppm

AVIAN TOXICITY: LC50 - Mallard Duck: >2510 mg/kg
LC50 - Bobwhite Quail: >5620 mg/kg

13. Disposal Considerations:

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Triple rinse (or equivalent), adding rinsate to spray tank. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, by incineration, or by burning, if allowed by State and local authorities. If burned, stay out of smoke.

In case of chemical spill, call 1-800-424-9300.

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 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

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Other Information (Continued)

sources to assure both the proper use of the material described herein and the safety and health of employees.