

# Material Safety Data Sheet

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

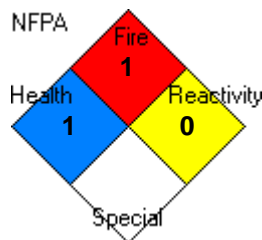
MSDS No.: 536-6

Version No.: 001

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: 10/27/2008

**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)

**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.

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

## 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.  
**Other Health Warnings:**  
 Product is not a skin sensitizer.

## 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:**  
 Store below 284° F  
**Other Precautions:**  
 NI

## 8. Exposure Controls/Personal Protection:

**Ventilation Requirements:**  
 Use local exhaust ventilation for indoor operations.  
**Personal Protective Equipment:**  
**PROTECTIVE CLOTHING:** Long sleeved shirt, long pants, shoes and socks, and chemical resistant gloves.  
**EYE PROTECTION:** Safety glasses with side shield or safety goggles.

## 5. Fire Fighting Measures:

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

## 9. Physical and Chemical Properties:

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## Physical and Chemical Properties (Continued)

**Boiling Point:** NI                      **Melting Point:** NI

**Evaporation Rate (Butyl Acetate = 1):** <1

**Vapor Pressure (mm Hg.):** NI

**Vapor Density (Air = 1):** NI

**Specific Gravity (H<sub>2</sub>O = 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:

Metsulfuron-methyl

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:

Dispose of material in an approved waste disposal facility in accordance with local, state, and federal regulations.

For containers, triple rinse and dispose in a sanitary landfill.

## 14. Transport Information:

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

Freight Class: Herbicides, NOI - NMFC #50320

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.

## Regulatory Information (Continued)

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.