

Material Safety Data Sheet

Product Name: FOCUS Turf Biostimulant 0-0-6

MSDS No.: 797-6

Version No.: 005

EPA Registration No.: N/A

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



0	Health
1	Flammability
0	Reactivity
B	Pers. Protection

Last Update: 10/2/00

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						
7782630	Iron sulfate heptahydrate	7.0	N	N	N	N	N	N	1mg/m3Fe	1mg/m3Fe	1mg/m3Fe
866842	Potassium Citrate	8.6	N	N	N	N	N	NI	NI	NI	
1310583	Potassium hydroxide	1.2	N	N	N	N	N	NI	2 mg/m3	2 mg/m3	

3. Hazardous Identification:

Hazard Category:
 Acute Chronic Fire Pressure Reactive

Hazardous Identification Information:

4. First Aid Measures:

Route(s) of Entry:
 Contact, Inhalation.

Health Hazards (Acute and Chronic):
 EYES: Contact may cause irritation, with blurring and tearing.

SKIN: Contact may irritate skin.

INHALATION: May irritate respiratory tract.

Signs and Symptoms:
 NI

Medical Conditions Generally Aggravated by Exposure:
 NI

Emergency First Aid Procedure:
 EYES: Flush eyes with large quantities of water for 10-15 minutes, holding lids open. If irritation persists, seek medical attention.

SKIN: Bathe and shampoo with soap and water to remove chemical from skin and hair. If irritation persists, seek medical attention. Launder contaminated clothing separately prior to reuse.

INHALATION: Remove victim to fresh air. Apply artificial respiration if needed. Seek medical attention.

INGESTION: Do not induce vomiting. Call a physician or Poison Control Center.

First Aid Measures (Continued)

Other Health Warnings:
 NI

5. Fire Fighting Measures:

Flash Point: 117°F **F.P. Method:**

Lower Explosive Limit: NI

Upper Explosive Limit: NI

Fire Extinguishing Media:
 Foam, CO2, dry chemical, water. The low flash point of this product is due to a minor component in the mixture. Based on independent laboratory testing of similar products, this product would not sustain combustion as specified in DOT Regulation 49 CFR 173 Appendix H, and, therefore, would not be classified as a combustible liquid.

Special Fire Fighting Procedures:
 Wear protective equipment. Avoid breathing fumes from fire.

Unusual Fire and Explosion:
 None.

6. Accidental Release Measures:

Steps to be Taken in Case Material is Released or Spilled:
 See Section 8 for Personal Protective Equipment. Contain and collect the spilled material with inert absorbent. Place in container for proper disposal.

7. Handling and Storage:

Precautions to be Taken:
 Shake well before using.

Other Precautions:
 NI

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8. Exposure Controls/Personal Protection:

Ventilation Requirements:

The use of explosion-proof mechanical ventilation is recommended if this product is to be used in an enclosed area.

Personal Protective Equipment:

PROTECTIVE CLOTHING: Wear long sleeve shirt, long pants, shoes with socks, and chemical-resistant gloves.

EYE PROTECTION: Safety glasses with side shields or safety goggles.

RESPIRATORY PROTECTION: If exposure limits may be exceeded, wear a dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C), or a NIOSH approved respirator with any N, R, P or HE filter.

9. Physical and Chemical Properties:

Boiling Point: >212°F **Melting Point:** N:I

Evaporation Rate (Butyl Acetate = 1): NI

Vapor Pressure (mm Hg.): NI

Vapor Density (Air = 1): NI

Specific Gravity (H2O = 1):

Solubility in Water: Suspended solids

Appearance and Odor: Black liquid

Other Information:

pH: 8-10

Density: 9.67 pounds/gallon

10. Stability and Reactivity:

Stability:

Stable

Incompatibility (Materials to Avoid):

Avoid mixing with acidic materials--ruins product.

Decomposition/By-Products:

Fire conditions may produce carbon monoxide and other gases.

Hazardous Polymerization:

Does not occur.

11. Toxicological Information:

No toxicological data available.

12. Ecological Information:

NI

13. Disposal Considerations:

Rinse container thoroughly and dispose of in trash, or offer for recycling.

14. Transport Information:

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

Freight Class: Fertilizing Compounds, NOI - NMFC #68140, sub 6

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

15. Regulatory Information:

Regulatory Information (Continued)

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.

CERCLA REPORTABLE QUANTITY: 14286 pounds of the formulation which contains 1000 pounds of Iron Sulfate Heptahydrate

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: To revise MSDS to 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.