

Material Safety Data Sheet

Product Name: ORNAMEC Over-The-Top Grass Herbicide

MSDS No.: 678-6

Version No.: 010

EPA Registration No.: 2217-728

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



2	Health
2	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						
95636	1,2,4-Trimethylbenzene	9.60	N	N	N	N	Y	NI	25 ppm	25 ppm	
100414	Ethyl benzene	2.00	N	N	N	Y	N	100 ppm	100 ppm	100 ppm	
79241466	Fluazifop-p-butyl	6.75	N	N	N	N	N	NI	NI	0.5mg/m3	
64742956	Petroleum solvent	13.60	N	N	N	Y	N	500 ppm	NI	50 ppm	
1330207	Xylenes	7.00	N	N	N	Y	Y	100 ppm	100 ppm	100 ppm	

3. Hazardous Identification:

Hazard Category:

Acute Chronic Fire Pressure Reactive

Hazardous Identification Information:

Amber liquid; solvent odor.

Contact, inhalation or swallowing may cause irritation and burning.

Contains solvents; overexposure may damage liver and kidneys, and/or depress the Central Nervous System. Do not induce vomiting if product is swallowed.

4. First Aid Measures:

Route(s) of Entry:

Skin contact, Inhalation, Ingestion.

Health Hazards (Acute and Chronic):

EYES: Contact may cause severe irritation and burning.

SKIN: Contact may cause moderate to severe irritation to the skin.

INHALATION: Moderately irritating/corrosive to the mucous membranes. Inhalation of sprays may cause burning sensations in the respiratory tract, resulting in coughing.

INGESTION: May be severely irritating to the gastrointestinal system, if swallowed.

CHRONIC EFFECTS: Repeated or prolonged overexposure to solvents may cause damage to liver and kidneys and/or depression of the Central Nervous System.

Signs and Symptoms:

Inhalation may cause burning in the chest, with coughing. Prolonged

First Aid Measures (Continued)

inhalation may cause dizziness.

Medical Conditions Generally Aggravated by Exposure:
 NI

Emergency First Aid Procedure:

EYES: Flush contaminating chemicals from eyes with clean water for 10-15 minutes. If irritation persists, seek medical attention.

SKIN: Remove contaminated clothing. Bathe and shampoo with soap and water to remove chemicals from skin and hair. Obtain medical treatment if irritation persists. Launder contaminated clothing separately, prior to reuse.

INHALATION: Remove victim to fresh air. Apply artificial respiration if needed. If irritation persists, seek medical attention.

INGESTION: Contact a physician or Poison Control Center immediately for assistance.

Other Health Warnings:

Note to physician: There is no specific antidote. If this product is ingested, do not induce vomiting; avoid aspiration of stomach contents during gastric lavage. Provide supportive therapy.

5. Fire Fighting Measures:

Flash Point: 112°F F.P. Method:

Lower Explosive Limit: 1.1°

Upper Explosive Limit: 7.0°

Fire Extinguishing Media:

Foam, CO2, dry chemical.

Special Fire Fighting Procedures:

Wear positive-pressure breathing apparatus and full protective clothing. Fight fire from maximum distance. Stay up wind and out of low areas.

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Fire Fighting Measures (Continued)

Unusual Fire and Explosion:

May be ignited by heat, sparks or flame. Vapors may travel along the ground to a distant source of ignition and flash back. Burning may generate poisonous gases. Runoff from fire control area or dilution water may cause pollution. If surface water is contaminated, contact local authorities.

6. Accidental Release Measures:

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

See Section 8 for Personal Protective Equipment. Remove all sources of ignition. Provide good ventilation to the spill area. Contain and absorb spilled material on inert absorbent. Collect into drums; cover and label for disposal. Flush area with water if possible.

7. Handling and Storage:

Precautions to be Taken:

PROHIBITIONS: Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container.

STORAGE: Store in original container only. Keep container closed when not in use. Do not store near food or feed. In case of spill or leak on floor or paved surfaces, soak up with sand, earth or synthetic absorbent. Remove to chemical waste area.

Other Precautions:

PHYSICAL AND CHEMICAL HAZARDS:

Do not use or store near heat or open flame.

8. Exposure Controls/Personal Protection:

Ventilation Requirements:

Good local ventilation is recommended; mechanical ventilation is recommended if exposure limits may be exceeded.

Personal Protective Equipment:

CAUTION: HARMFUL IF ABSORBED THROUGH SKIN OR INHALED. CAUSES EYE IRRITATION. MAY CAUSE ALLERGIC SKIN REACTIONS. Avoid contact with skin, eyes or clothing. Avoid breathing vapor or spray mist.

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 E on an EPA chemical resistance category selection chart.

Applicators and other handlers (other than mixers and loaders) must wear: long-sleeved shirt and long pants, chemical resistant gloves such as barrier laminate, nitrile rubber, neoprene rubber, or Viton, and shoes plus socks.

Mixers and loaders must wear: long-sleeved shirt and long pants, chemical resistant gloves such as barrier laminate, nitrile rubber, neoprene rubber, or Viton, shoes plus socks, protective eyewear, and chemical resistant apron when mixing or loading.

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.

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 respirator with an organic-vapor removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a NIOSH approved respirator with any R, P or HE filter.

9. Physical and Chemical Properties:

Boiling Point: >230°F

Melting Point: NI

Evaporation Rate (Butyl Acetate = 1): <1

Vapor Pressure (mm Hg): <2@20°C

Vapor Density (Air = 1): 3.6

Specific Gravity (H2O = 1): 0.89121

Solubility in Water: Emulsifiable.

Appearance and Odor: Amber liquid; solvent odor.

Other Information:

Density: 7.43 pounds/gallon

Viscosity: 3.4 cp @ 100°F

Freezing point: <35°F

Percent volatile by volume: 36%

10. Stability and Reactivity:

Stability:

Stable.

Incompatibility (Materials to Avoid):

Strong oxidizing agents.

Decomposition/By-Products:

May produce gases such as carbon dioxide, carbon monoxide, nitrogen oxides and halogens when burning.

Hazardous Polymerization:

Will not occur.

11. Toxicological Information:

No toxicological data available.

12. Ecological Information:

ENVIRONMENTAL HAZARDS:

This product is toxic to fish. For terrestrial uses, do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater. Do not apply when weather conditions favor drift from target area.

13. Disposal Considerations:

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

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

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 - when containers are one gallon or less - this product qualifies as Hazardous Materials as:

CONSUMER COMMODITY, ORM-D

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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: 1428 pounds of the formulation which contains 100 pounds of Xylenes

SARA TITLE III:

SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES: None

SECTION 311/312 HAZARD CATEGORIES: Immediate Health Hazard, Delayed Health Hazard, Fire Hazard

SECTION 313 TOXIC CHEMICALS: 1,2,4-Trimethylbenzene, CAS# 95-63-6, Xylenes, CAS# 1330-20-7, Ethylbenzene, CAS# 100-41-4

RCRA STATUS: When discarded in its purchased form, this product is a listed RCRA hazardous waste and should be managed 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.