

Material Safety Data Sheet

Product Name: Gordon's MECOME 4 Turf Herbicide

MSDS No.: 841-6

Version No.: 013

EPA Registration No.: 2217-674

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
1	Flammability
0	Reactivity
B	Pers. Protection

Last Update: 10/11/2001

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						
111422	Diethanolamine	1.34	N	N	N	N	Y	NI	0.46 ppm	3 ppm	
66423050	Potassium Salt of R(+)-2-(2-Methyl-4-chlorophenoxy) propionic acid (MCP)	22.53%	N	N	Y	N	N	NI	NI	NI	

3. Hazardous Identification:

Hazard Category:

Acute Chronic Fire Pressure Reactive

Hazardous Identification Information:

The International Agency for Research on Cancer (IARC) lists chlorophenoxy herbicides in its Group 2B (limited evidence for carcinogenicity in humans.) The US EPA has given the chlorophenoxy herbicides 2,4-D, 2,4-DP, MCP, and MCPA a Class D classification (not classifiable as to human carcinogenicity.) More current 2,4-D lifetime feeding studies in rats and mice did not show carcinogenic effects and a recent World Health Organization (WHO) review of 2,4-D toxicology has concluded that 2,4-D is not a carcinogen.

First Aid Measures (Continued)

SKIN: Remove contaminated clothing. Bathe and shampoo with soap and water to remove chemicals 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. If irritation persists, seek medical attention.

INGESTION: Call physician or Poison Control Center.

Other Health Warnings:

Do not eat, drink or smoke when handling product. Avoid contact with skin, eyes and clothing.

4. First Aid Measures:

Route(s) of Entry:

Contact, inhalation, ingestion.

Health Hazards (Acute and Chronic):

EYES: Contact may cause irritation and burning

SKIN: Contact may cause skin irritation. May be harmful if absorbed through the skin.

INHALATION: May cause irritation to the respiratory tract.

INGESTION: May cause irritation to the gastrointestinal tract. May be harmful if large amounts are swallowed.

Signs and Symptoms:

NI

Medical Conditions Generally Aggravated by Exposure:

NI

Emergency First Aid Procedure:

EYES: Flush with large amounts of clean water for 10-15 minutes, holding lids open. If irritation persists, seek medical attention.

5. Fire Fighting Measures:

Flash Point: 125°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 self-contained breathing apparatus and full protective clothing.

Unusual Fire and Explosion:

Extreme heat may release chloride and nitrogen oxide gases. Run-off from fire control may cause pollution to surface water supplies. If pollution occurs, notify local authorities.

6. Accidental Release Measures:

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

See Section 8 for Personal Protective Equipment. Do not touch spilled

Material Safety Data Sheet

Product Name: Gordon's MECOME 4 Turf Herbicide

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Accidental Release Measures (Continued)

material. Contain and collect the spilled product for reuse or disposal. Cover and label the containers. Wash area with water if possible. Do not allow rinse water to pollute surface waters.

7. Handling and Storage:

Precautions to be Taken:

Do NOT contaminate water, food, or feed by storage or disposal. STORAGE: Store in original container in a locked storage area inaccessible to children or pets. Avoid contamination of food or feedstuffs. Keep from freezing.

Other Precautions:

NI

8. Exposure Controls/Personal Protection:

Ventilation Requirements:

Good local ventilation is required.

Personal Protective Equipment:

CAUTION: Harmful if swallowed. Avoid contact with eyes, skin or clothing. Wear long pants, long-sleeved shirt, shoes and gloves when mixing, loading or applying this product. Wear face shield or goggles when mixing, loading or applying this product. Avoid breathing spray mist

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: NI

Evaporation Rate (Butyl Acetate = 1): <1

Vapor Pressure (mm Hg.): <17@20°C

Vapor Density (Air = 1): >1

Specific Gravity (H2O = 1): 1.09450

Solubility in Water: Infinite.

Appearance and Odor: Brown liquid; phenolic odor.

Other Information:

pH: 7.5-8.5

Density: 9.115 pounds/gallon

Freezing point: <35°F

Percent volatile by volume: 40%

10. Stability and Reactivity:

Stability:

Stable.

Incompatibility (Materials to Avoid):

Do not mix with acidic materials, as this will ruin product.

Decomposition/By-Products:

Burning may produce organochloride and nitrogen oxide gases.

Hazardous Polymerization:

Will not occur.

11. Toxicological Information:

No toxicological data available.

12. Ecological Information:

ENVIRONMENTAL HAZARDS:

Drift or runoff may adversely affect nontarget plants. For terrestrial uses,

Ecological Information (Continued)

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 contaminate water when disposing of equipment washwater. When cleaning equipment, do not pour the washwater on the ground; spray or drain over a large area away from wells and other water sources. Do not apply when weather conditions favor drift from target area. Do not contaminate domestic or irrigation waters.

Most cases of groundwater contamination involving phenoxy herbicides such as MCPP have been associated with mixing/loading and disposal sites. Caution should be exercised when handling MCPP pesticides at such sites to prevent contamination of groundwater supplies. Use of closed systems for mixing and transferring this pesticide will reduce the probability of spills. Placement of the mixing/loading equipment on an impervious pad to contain spills will help prevent groundwater contamination.

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: For Plastic Containers - 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 and 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, 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: 7463 pounds of the formulation which contains 100 pounds of Diethanolamine

SARA TITLE III:

SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES: None

SECTION 311/312 HAZARD CATEGORIES: Immediate Health

Hazard, Delayed Health Hazard

SECTION 313 TOXIC CHEMICALS: Diethanolamine CAS# 111-42-2

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 change from racemic MCPP to the plus optical isomer.

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

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Other Information (Continued)

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.