

Material Safety Data Sheet

Product Name: Gordon's TRIMEC Broadleaf Herbicide Bentgrass Formula

MSDS No.: 840-6

Version No.: 015

EPA Registration No.: 2217-529

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

Last Update: 1/24/2011

Chemical State: ☒ Liquid ☐ Gas ☐ Solid
Chemical Type: ☐ Pure ☒ Mixture



| | |
|---|------------------|
| 2 | Health |
| 1 | Flammability |
| 0 | Reactivity |
| B | Pers. Protection |

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 |
|----------|--|---------|-----|-----|------|-------|----------|----------|-----------|--------------|
| 2008391 | Dimethylamine Salt of 2,4-dichlorophenoxyacetic acid (2,4-D) | 6.12 | N | N | Y | N | N | NI | NI | NI |
| 2300665 | Dimethylamine Salt of 3,6-dichloro-o-anisic acid (Dicamba) | 2.53 | N | N | N | N | Y | NI | NI | NI |
| 66423094 | Dimethylamine Salt of R(+)-2-(2-Methyl-4-chlorophenoxy) propionic acid (MCP) | 9.92% | 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)

Medical Conditions Generally Aggravated by Exposure:
NI

Emergency First Aid Procedure:

If in eyes:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for treatment advice.

If swallowed

- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by the poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

If on skin or

clothing:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15 - 20 minutes.
- Call a poison control center or doctor for treatment advice.

If inhaled:

- Remove victim to fresh air.
- Administer artificial respiration if necessary.
- Call a physician.

Other Health Warnings:

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-877-800-5556 for emergency medical treatment advice.

4. First Aid Measures:

Route(s) of Entry:

Eyes, contact, inhalation, ingestion.

Health Hazards (Acute and Chronic):

EYES: Causes substantial but temporary eye injury.

SKIN: Harmful if absorbed through skin.

INHALATION: May cause moderate respiratory irritation; burning.

INGESTION: Harmful if swallowed.

CHRONIC: Repeated and/or prolonged overexposure may cause chronic irritation of respiratory tract. Overexposure may cause adverse effects to liver, kidneys, skin, muscular and gastrointestinal systems.

Signs and Symptoms:

Burning sensation; coughing; dizziness.

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NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage

5. Fire Fighting Measures:

Flash Point: 129°F **F.P. Method:** PM Closed Cup

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 positive pressure breathing apparatus and full protective clothing.

Unusual Fire and Explosion:

Burning product may produce irritating or 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. Do not touch spilled product. Contain spill and collect for reuse or absorb onto inert absorbent such as Dri-Rite, sand or pet litter. Collect into drums; cover and label drums for reuse or proper disposal. Flush area with water if possible. Absorb wash water for disposal.

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. Keep from freezing.

Other Precautions:

Engineering Control Statements:
Containers over 1 gallon and less than 5 gallons: Persons engaged in open pouring of this product must also wear coveralls or a chemical resistant apron.

Containers of 5 gallons or more in capacity: Do not open-pour from this container. A mechanical system (such as probe and pump or spigot) must be used for transferring the contents of this container. If the contents of a nonrefillable pesticide container are emptied, the probe must be rinsed before removal.

8. Exposure Controls/Personal Protection:**Ventilation Requirements:**

Good local ventilation is required. Mechanical exhaust may be necessary if product is applied in an enclosed area.

Personal Protective Equipment:

Personal Protective Equipment (PPE)
Some materials that are chemical-resistant to this product are natural rubber. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart.

All mixers, loaders, applicators and other handlers must wear:

- goggles or face shield
- long-sleeved shirt and long pants,
- shoes and socks,
- chemical-resistant gloves (except for applicators using ground boom equipment) and
- chemical-resistant apron when mixing or loading, cleaning up spills or

Exposure Controls/Personal Protection (Continued)

equipment, or otherwise exposed to the concentrate.

9. Physical and Chemical Properties:

Boiling Point: 212°F

Melting Point: NI

Evaporation Rate (Butyl Acetate = 1): <1

Vapor Pressure (mm Hg.): <17 @68°F

Vapor Density (Air = 1): >1

Specific Gravity (H₂O = 1): 1.04880

Solubility in Water: Infinite

Appearance and Odor: Liquid; amine odor

Other Information:

pH: 7.5 - 8.5

Density: 8.73 pounds/gallon

Freezing point: <35°F

Percent volatile by volume: 65%

10. Stability and Reactivity:**Stability:**

Stable.

Incompatibility (Materials to Avoid):

Acidic materials may ruin product.

Decomposition/By-Products:

In fire conditions, CO, CO₂, NO_x may be produced. In oxygen-starved conditions of burning, HCl, nitriles, and nitrosamines may form.

Hazardous Polymerization:

Will not occur.

11. Toxicological Information:

EYES: Caused substantial but temporary eye injury.

SKIN: Harmful if absorbed through skin.

INHALATION: May cause moderate respiratory irritation; burning.

INGESTION: Harmful if swallowed.

CHRONIC: Repeated and/or prolonged overexposure may cause chronic irritation of respiratory tract. Overexposure may cause adverse effects to liver, kidneys, skin, muscular and gastrointestinal systems.

12. Ecological Information:

This pesticide is toxic to fish and aquatic invertebrates and may adversely affect non-target plants. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment wash waters or rinsate.

This chemical has properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination. Application around a cistern or well may result in contamination of drinking water or groundwater.

13. Disposal Considerations:

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Disposal Considerations (Continued)

Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: Store in original container in a locked storage area inaccessible to children or pets. Keep from freezing.

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.

14. Transport Information:

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

Freight Class: PESTICIDES, NOI - NMFC 155050, SUB 6

Proper Shipping Name:

For package sizes less than 221.24 gallons: product is non-regulated.

For package sizes 221.24 gallons or greater: Environmentally Hazardous Substances, Liquid, N.O.S., 9, UN3082, PGIII, RQ (2,4-D)

If shipped in bulk containers (greater than 119 gallons), this product is a Marine Pollutant.

When shipped as a Hazardous Material, label required is Class 9 (Miscellaneous). Placards required on bulk shipments only.

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: 1634 pounds of the formulation which contains 100 pounds of Dimethylamine 2,4-D

SARA TITLE III:

SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES: None

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

SECTION 313 TOXIC CHEMICALS: Dimethylamine dicamba CAS# 2300-66-5

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 Sections 4, 5, 8, 11, 12, 13, 14 in light of revised FIFRA label.

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

Other Information (Continued)

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.