

Material Safety Data Sheet

Product Name: Trimec Encore Broadleaf Herbicide

MSDS No.: 773-1

Version No.: 012

EPA Registration No.: 2217-773

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: 7/20/2007

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 SUB Z	OSHA PEL	ACGIH TLV	Other Limits
			NTP							
2300665	Dimethylamine Salt of 3,6-dichloro-o-anisic acid (Dicamba)	3.81	N	N	N	N	Y	NI	NI	NI
2039465	Dimethylamine Salt of 4-chloro-2-methylphenoxyacetic acid (MCPA)	38.68	N	N	Y	N	N	NI	NI	NI
66423094	Dimethylamine Salt of R(+)-2-(2-Methyl-4-chlorophenoxy) propionic acid (MCPA)	8.16%	N	N	Y	N	N	NI	NI	NI

3. Hazardous Identification:

Hazard Category:

Acute Chronic Fire Pressure Reactive

Hazardous Identification Information:

Brown liquid; amine odor.

Corrosive to eyes. Irritant to skin, respiratory and gastrointestinal systems.

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, MCPA, 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.

4. First Aid Measures:

Route(s) of Entry:

Primary exposure is by contact or inhalation.

Health Hazards (Acute and Chronic):

EYES: Corrosive. This concentrate causes irreversible eye damage.

SKIN: Moderately irritating.

INHALATION: Prolonged inhalation may cause dizziness, burning in the chest, or coughing.

INGESTION: Irritating to gastrointestinal tract.

CHRONIC EFFECTS: Repeated overexposure may effect the skin, liver,

First Aid Measures (Continued)

kidneys and blood.

Signs and Symptoms:

Burning in eyes.

Dizziness, burning in chest, coughing.

Medical Conditions Generally Aggravated by Exposure:

Pre-existing conditions such as asthma or skin lesions may be aggravated by this product.

Emergency First Aid Procedure:

IF IN EYES: In case of eye contact, immediately flush eyes with plenty of water for 15 minutes. Call a physician at once.

IF SWALLOWED: Drink promptly a large quantity of milk, egg whites, gelatin solution, or if these are not available drink large quantities of water. Avoid alcohol. Do not induce vomiting or give anything by mouth to an unconscious person.

IF INHALED: Remove victim to fresh air and apply respiration if indicated.

IF ON SKIN: Wash promptly with soap and water. Rinse thoroughly. Get medical attention.

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

Other Health Warnings:

NI

5. Fire Fighting Measures:

Flash Point: 111°F **F.P. Method:** PM Closed Cup
Lower Explosive Limit: NI

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Fire Fighting Measures (Continued)

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:

Runoff from fire control area or dilution water may cause pollution. Keep from ground water sources. If surface water is contaminated, call 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 and collect spill with absorbent material. Place into drums; cover and mark drums for disposal. Flush area with water if possible.

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. To prevent cross-contamination, do not store near herbicides, fertilizers, insecticides, fungicides or seeds.

Other Precautions:

NI

8. Exposure Controls/Personal Protection:

Ventilation Requirements:

Good local or mechanical ventilation of the workplace is required.

Personal Protective Equipment:

PROTECTIVE CLOTHING: Wear long pants, long-sleeved shirt, shoes, gloves when mixing, loading or handling this concentrated product.

EYE PROTECTION: Wear face shield or goggles when mixing, loading or handling this concentrated product.

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: 221°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): 1.12860

Solubility in Water: Infinitely soluble

Appearance and Odor: Brown liquid; amine odor.

Other Information:

pH: 7.5-8.5

Density: 9.40 pound/gallon

Freezing Point: <35°F

Viscosity: 7.5 cp at 100°F.

10. Stability and Reactivity:

Stability:

Stable.

Incompatibility (Materials to Avoid):

Do not mix with acidic materials; may ruin product.

Decomposition/By-Products:

Noxious fumes under fire conditions. May produce HCL, organochlorides, nitrogen oxides, carbon monoxide.

Hazardous Polymerization:

Will not occur.

11. Toxicological Information:

Acute Oral Toxicity-Rat = 1,750 mg/kg

Acute Dermal Toxicity-Rabbit >5,000 mg/kg

Acute Inhalation Toxicity - Rat >2.07 mg/L

Primary Eye Irritation - Rabbit - Severely irritating to the eye

Primary Skin Irritation - Rabbit -Moderately irritating to the skin

Dermal Sensitization - Is considered to be a contact sensitizer

12. Ecological Information:

ENVIRONMENTAL HAZARDS:

Drift or runoff may adversely affect nontarget plants. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate. 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 away from target area. Most cases of groundwater contamination involving phenoxy herbicides such as MCP and MCPA have been associated with mixing/loading and disposal sites. Caution should be exercised when handling MCP and MCPA 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: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law and may contaminate groundwater. 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: 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. For Metal Containers - Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

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

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Transport Information (Continued)

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: none

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: 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 Section 11. Toxicology Information.

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.