

**MATERIAL SAFETY DATA SHEET**

MSDS NUMBER: 700-6  
 VERSION NO.: 016 EPA REGISTRATION NUMBER: 2217-709  
 PRODUCT NAME: QUADMEC TRIMEC PLUS  
 CAS NUMBER: - 0  
 CHEMICAL NAME: Herbicide

**SECTION I**

MANUFACTURER: PBI/Gordon Corporation	HMIS RATINGS: HEALTH: 2 FIRE: 1 REACTIVITY: 0 PERSONAL PROTECTION: B	
ADDRESS: 1217 West 12th Street		
Kansas City, MO 64101		
EMERGENCY TELEPHONE NUMBER: (800) 424-9300		
INFORMATION TELEPHONE NUMBER (816) 421-4070		
DATE PREPARED: 06/16/99		

**SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION**

CAS NUMBER	HAZARDOUS COMPONENT	NTP	IARC	SUB-PART/Z	SARA 313	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED	PERCENT
94-75-7	2,4-Dichlorophenoxyacetic acid (2,4-D)	N	N	Y	Y	10 mg/m3	0mg/m3		4.84
93-65-2	2-(2-Methyl-4-chlorophenoxy)propionic acid (Mecoprop)	N	N	N	Y	NI	NI		4.84
1918-00-9	3,6-Dichloro-o-anisic acid (Dicamba)	N	N	N	Y	NI	NI		1.21
124-40-3	Dimethylamine (DMA)	N	N	Y	Y	10 ppm	5 ppm		3.35
2163-80-6	Monosodium acid Methanearsonic acid (MSMA)	N	N	N	Y	NI	NI		18.00

**SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS**

BOILING POINT	212 F	SPECIFIC GRAVITY (H2O = 1)	1.20000
VAPOR PRESSURE (mm Hg.)	<17 @ 20 C	MELTING POINT	NI
VAPOR DENSITY (AIR = 1)	>1	EVAPORATION RATE (Butyl Acetate = 1)	<1

SOLUBILITY IN WATER: Infinite

APPEARANCE AND ODOR: Solid in liquid suspension; amine odor.

OTHER INFORMATION:

pH: 7.0-8.5

Freezing Point: <35 F

Density at 20 C: 10.0 lb/gal.

Viscosity: 1700-2000 cp

**SECTION IV - FIRE AND EXPLOSION HAZARD DATA**

FLASH POINT: 108 degrees F	FLAMMABLE LIMITS:	LEL: NI	UEL: NI
EXTINGUISHING MEDIA: Foam, CO2, dry chemical, water.			
SPECIAL FIRE FIGHTING PROCEDURES: Wear positive-pressure breathing apparatus and full protective clothing.			
UNUSUAL FIRE FIGHTING PROCEDURES: This product does not ignite readily, but may burn at a very high temperature. The fire may produce irritating or poisonous gases. Run-off from fire control area or dilution water may cause pollution. If surface water is contaminated, contact local authorities.			

**SECTION V - REACTIVITY DATA**

STABILITY: Stable.

INCOMPATIBILITY (MATERIALS TO AVOID): Avoid contact with acids and metals such as zinc, aluminum, copper and tin.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: May produce gases such as HCl, organo chlorides, nitrogen oxides, and carbon monoxide when burning. MSMA, in the presence of many metals, can react with nascent hydrogen to form arsine gas.

HAZARDOUS POLYMERIZATION: Will not occur.

**SECTION VI - HEALTH HAZARD DATA**

ROUTE(S) OF ENTRY: Skin contact, Inhalation, Ingestion.

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**SECTION VI HAZARD DATA ( Cont.)**

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**HEALTH HAZARDS (ACUTE AND CHRONIC):**

**EYES:** Contact may cause irritation and burning.

**SKIN:** Moderately irritating to the skin; may be absorbed through the skin. Acute dermal LD50: >2000 mg/kg (rabbit)

**INHALATION:** Moderately irritating to the mucous membranes. Inhalation of sprays may cause burning sensations in the respiratory tract, resulting in coughing. LC50: >3.3 mg/liter (4H)

**INGESTION:** May cause vomiting, with pain in the chest and abdomen, and diarrhea. Oral LD50: 6700 mg/kg (rats).

**CHRONIC EFFECTS:** Repeated or prolonged overexposure may effect the liver, kidneys, blood, gastrointestinal and muscular systems. Skin sensitization may occur after repeated overexposure.

**SIGNS AND SYMPTOMS OF EXPOSURE:** Inhalation may cause burning in the chest, with coughing. Prolonged inhalation sometimes causes dizziness. Ingestion usually leads to vomiting. Pain in the chest and abdomen, and diarrhea may follow. Headache, mental confusion, and bizarre behavior are early manifestations of severe poisoning, which may progress to unconsciousness.

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** Individuals with chronic skin disease or known sensitivity to chlorophenoxy compounds should either avoid using them or take strict precautions to avoid contact. (respirator, gloves, etc.)

**EMERGENCY AND FIRST AID PROCEDURES: EYES:** Flush contaminating chemicals from eyes with large amounts of 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.

**INHALATION:** Remove victim to fresh air. Apply artificial respiration if needed. If any symptoms of illness occur during or following inhalation of spray, remove victim from contact with the material for at least 2-3 days, and use respiratory protection for future contact with this type of material.

**INGESTION:** If substantial amounts of this product have been swallowed, spontaneous emesis may occur. Contact a physician or Poison Control Center immediately for assistance.

**OTHER HEALTH WARNINGS:** NI

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**SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE**

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**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Do not touch spilled material. Wear chemical resistant gloves, protective clothing, and safety glasses with side shields. Contain and absorb spilled material on Dri-Rite, sand or other inert absorbent. Collect into drums; cover and label for disposal. Flush area with water if possible. For a large spill, use of a particulate respirator, NIOSH/MSHA approval number TC-21C or a chemical cartridge respirator, NIOSH/MSHA TC-23C is recommended.

**WASTE DISPOSAL METHOD:** Dispose of DOT drum, waste water and contaminated absorbent according to State, Local, and Federal regulations.

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Store this product in the original container in a locked storage area inaccessible to children or pets. Do not store near feed, seed, or food; other herbicides, pesticides, or fungicides. Keep from freezing. Do not apply when weather conditions favor drift from area treated. Do not contaminate waters used for domestic consumption, or by wildlife or aquatic life, or for irrigation purposes.

**OTHER PRECAUTIONS:** NI

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**SECTION VIII - CONTROL MEASURES**

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**VENTILATION REQUIREMENTS:** Good local ventilation is recommended; mechanical ventilation may be used if exposure limits may be exceeded.

**PERSONAL PROTECTIVE EQUIPMENT: RESPIRATORY PROTECTION:** If exposure limits may be exceeded, wear a NIOSH/MSHA approved respirator for particulates, (TC-21C) or an organic cartridge respirator (NIOSH/MSHA No. TC23-C) with a pesticide pre-filter.

**PROTECTIVE CLOTHING:** Wear long sleeves and pants; chemical resistant gloves and shoes with socks.

**EYE PROTECTION:** Safety glasses with side shields, goggles, or face shield.

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**SECTION IX - ADDITIONAL INFORMATION**

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**ADDITIONAL MANUFACTURER WARNINGS:**

TSCA Status: Exempt.

Recommended Hazard Summary (Defined by 29 CFR 1910.1200):

Immediate health hazard.

Note: NI means Not Indicated.

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**SECTION IX - ADDITIONAL INFORMATION (Continued)**

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OTHER PRECAUTIONS AND COMMENTS: 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.

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