

MATERIAL SAFETY DATA SHEET

DATE PREPARED:08/11/2004
MSDS No:041011035

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ORTHO® Weed-B-Gon® MAX® Concentrate
PRODUCT DESCRIPTION: Herbicide

MANUFACTURER

The ORTHO Group
P.O. Box 190
Marysville, OH 43040

24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC (U.S.): (800) 424-9300
Emergency Phone: 1-800-225-2883

EPA REG. NO.: 228-424-239 **PN:** 7099

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS#
MCPA, dimethylamine salt	13.72	2039-46-5
Triclopyr, Triethylamine Salt	1.56	57213-69-1
Dicamba, dimethylamine salt	1.35	2300-66-5
Other Ingredients	83.37	

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

IMMEDIATE CONCERNS: WARNING-

- CAUSES SUBSTANTIAL BUT TEMPORARY EYE INJURY
- DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING
- HARMFUL IF SWALLOWED
- KEEP OUT OF REACH OF CHILDREN

POTENTIAL HEALTH EFFECTS

EYES: Direct and prolonged eye exposure to the undiluted product may cause substantial but temporary eye irritation.

SKIN: Prolonged exposure may cause mild skin irritation.

INGESTION: Ingestion of the concentrated product may cause muscle weakness, lethargy, loss of appetite, abdominal pain, headache, or shortness of breath.

INHALATION: None known.

MEDICAL CONDITIONS AGGRAVATED: Skin exposure may aggravate existing skin conditions. Exposure to mist may aggravate existing respiratory conditions.

ROUTES OF ENTRY: Ingestion, skin, inhalation, and/or eyes.

TARGET ORGANS: Skin, eyes, respiratory, and gastrointestinal tract.

4. FIRST AID MEASURES

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

SKIN: If on skin or clothing, take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

INGESTION: If swallowed, call a poison control center or doctor immediately for treatment advice. Have person sip glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Never give anything by mouth to an unconscious person.

INHALATION: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

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

COMMENTS: See product label for specific First Aid Measures. The above measures are the most conservative - Pesticide Registration (PR) Notice 2001-1, January 2, 2001, and would apply in the event a product label is not immediately available.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: None (aqueous solution)

EXTINGUISHING MEDIA: CO₂, Dry Chemical, Foam, Water Fog.

HAZARDOUS COMBUSTION PRODUCTS: Normal combustion forms carbon dioxide, water vapor and may produce oxides of nitrogen. Incomplete combustion can produce carbon monoxide.

FIRE FIGHTING PROCEDURES: Smoke from fires involving this material may present unusual hazards. Avoid breathing smoke and mists. Avoid contact with fallout and runoff. Minimize the amount of water used for fire fighting. Do not enter any enclosed area without full protective equipment, including self-contained breathing equipment. Contain and isolate runoff and debris for proper disposal. Read the entire document.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Soak up spilled material with paper towels and discard in trash.

LARGE SPILL: Dike or contain release. Collect material into drums. Absorb with sand, or other inert materials. Clean spill area of residues and absorbent.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Store in original container and place in an area inaccessible to children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: No special ventilation is necessary under normal product use conditions. However, if workplace operating conditions create high airborne concentrations of the material, special ventilation may be needed to reduce levels below OSHA exposure limits.

PERSONAL PROTECTION

EYES AND FACE: Workers handling the concentrate should wear chemical goggles to prevent eye contact during mixing/transfer operations or other activities where there is potential for eye contact with the concentrated product. Wear goggles, face shield or safety glasses when mixing, pouring the concentrate from one container to another and when removing or reattaching container closure/spray nozzle. The wearing of goggles is not required during use of this product in accordance with label instruction.

SKIN: Wear protective clothing when handling or applying this product including long pants, long sleeved shirt, socks, shoes, and chemical resistant gloves. Wash nondisposable gloves thoroughly with soap and water before removing. Remove contaminated clothing and launder separately before reuse. Promptly and thoroughly wash hands and exposed skin with soap and water after using this product.

RESPIRATORY: Handling of the undiluted product is not likely to present an airborne exposure concern under normal use conditions. In the event of an accidental discharge of the material during manufacture or handling which produces a heavy vapor or mist, workers should use respiratory protection equipment. Consult respirator manufacturer to determine appropriate type of equipment. Observe respirator use limitations specified by NIOSH MSHA or the manufacturer. For application of product diluted in accordance with label instructions, no special respiratory protection is required. Read and follow label precautions.

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200):

Chemical Name	EXPOSURE LIMITS		
	OSHA PEL	ACGIH TLV	ACGIH STEL
MCPA, dimethylamine salt	None	None	None
Triclopyr, Triethylamine Salt	None	None	None
Dicamba, dimethylamine salt	None	None	None

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid
ODOR: Slight amine odor.
COLOR: Medium.
pH: 7.0 to 8.0
VAPOR PRESSURE: Same as water.
BOILING POINT: >212F
FREEZING POINT: (32°F)
SOLUBILITY IN WATER: 100% soluble
DENSITY: 8.49 lbs/gal.

10. STABILITY AND REACTIVITY

STABLE: YES
HAZARDOUS POLYMERIZATION: NO
CONDITIONS TO AVOID: Extreme heat.
HAZARDOUS DECOMPOSITION: Heating this material may produce toxic oxides of nitrogen and chlorine.
INCOMPATIBLE MATERIALS: May react with strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

11. TOXICOLOGICAL INFORMATION

ACUTE

EYES: Corneal involvement or other eye irritation clearing in 8 to 21 days (rabbits).
DERMAL LD₅₀: The Dermal LD50 (rabbits) >2,000-5000 mg/kg body weight.
ORAL LD₅₀: >500-5000 mg/kg (rats).
INHALATION LC₅₀: No inhalation LC50 product information available.

SKIN EFFECTS: Slight irritation (rabbits).

SENSITIZATION: Guinea pig - Not a dermal sensitizer.

TARGET ORGANS: Liver is a possible target organ for dicamba.

CARCINOGENICITY:

IARC: No
NTP: No
OSHA: No

CARCINOGENICITY COMMENTS: Dicamba has been classified by the EPA as a class D carcinogen (not classifiable as to human carcinogenicity).

TERATOGENICITY: Dicamba and triclopyr are not considered teratogens, but no conclusions can be drawn about the teratogenic risk of MCPA.

REPRODUCTIVE TOXIN: Dicamba has not shown reproductive effects with the exception of slightly reduced fetal body weights and post implantation losses at the Maximum Tolerated Dose Level.

MUTAGENICITY: MCPA and triclopyr do not pose a mutagenic risk.

COMMENTS: Acute toxicology information provided by NUFARM Americas Inc., Burr Ridge, IL, MSDS Ref. No. 334, Horsepower Lawn Weed Killer, 5/26/04.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: MCPA, dicamba, and triclopyr each have relatively short field half-life of 20 to 60 days, 20 days, and 46 days, respectively. Each are biodegraded by soil microbes and aquatic microorganisms.

13. DISPOSAL CONSIDERATIONS

FOR LARGE SPILLS: Material collected that cannot be chemically reprocessed should be disposed of in a landfill approved for disposal or in accordance with applicable regulations. Contact local environmental or health authorities for approved disposal of this material.

PRODUCT DISPOSAL: Carefully follow all label directions and precautions: If empty: Do not reuse container. Place in trash or offer for recycling if available. If partially filled: Call local solid waste agency or 1-800-CLEANUP for disposal instructions. Never place unused product down any indoor or outdoor drain.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Not Regulated

SPECIAL SHIPPING NOTES: The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

PRODUCT CLASSIFICATION UNDER SECTION 311 OF SARA	
ACUTE: YES	CHRONIC: YES

313 REPORTABLE INGREDIENTS: Dimethylamine of Dicamba (CAS# 2300-66-5) and Triclopyr Triethylammonium Salt (CAS# 57213-69-1).

EPA

EPA RQ INGREDIENT: Dicamba, 1,000 lbs.

EPA RQ PRODUCT: 10,310 gallons. For releases greater than the RQ, contact the National Response Center at (800) 424-8802.

GENERAL COMMENTS: Contact local authorities for disposal of large quantities of unused product.

16. OTHER INFORMATION

HMS CODES

FLAMMABILITY: 1 HEALTH: 2 PHYSICAL HAZARD: 0

NFPA CODES

FIRE: 1 HEALTH: 2 REACTIVITY: 0

APPROVAL DATE: 08/11/2004

REVISION SUMMARY New MSDS

ADDITIONAL MSDS INFORMATION: NFPA/HMIS Hazard Rating: 0=Least; 1=Slight; 2=Moderate; 3=High; 4=Severe.

GENERAL STATEMENTS: This document contains health, safety, and environmental information useful to emergency response agencies, health care providers, manufacturers, and workers/employees. It does not replace the precautionary language, use directions, or the storage and disposal information found on the product label.

COMMENTS: Use of this product is regulated by the U.S. Environmental Protection Agency (EPA) through the approved product label. It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

MANUFACTURER DISCLAIMER: The information contained herein is, to the best of the Manufacturer's (see Section 1) knowledge and belief, accurate and reliable as of the date of preparation of this document. However, no warranty or guarantee, express or implied, is made as to the accuracy or reliability, and the Manufacturer shall not be liable for any loss or damage arising out of the use thereof. No authorization is given or implied to use any patented invention without a license. In addition, the Manufacturer shall not be liable for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices or from any hazards inherent in the nature of the product.