

MATERIAL SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

COMPANY ADDRESS: MICRO FLO COMPANY
P.O. BOX 772099
Memphis, TN 38117

EMERGENCY TELEPHONE NUMBERS:
(800) 424-9300 (CHEMTREC, transportation and spills)
(800) 900-4044 (Poison Control Center, human health)
(800) 345-4735 (ASPCA, animal health)

PRODUCT NAME : BANVEL^R
CHEMICAL NAME : Dimethylamine salt of dicamba
FORMULA : C₈H₆Cl₂O₃ - C₂H₇N
CHEMICAL FAMILY : Substituted benzoic acid
PRODUCT CODE : EPA Reg. No. 51036-289

SECTION 2 - COMPOSITION, INFORMATION OF INGREDIENTS

COMPONENT	PERCENTAGE	CAS NUMBER	OSHA PEL	ACIGH TLV
Dimethylamine Salt of Dicamba	48.2%	2300-66-5	not listed	not listed
Dimethylamine Salt of related acids	12.0%	n/a	not listed	not listed
Inert Ingredients	39.8%	n/a	not listed	not listed

SECTION 3 - PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL DESCRIPTION: Amber liquid.
ODOR: Mild amine odor.
BOILING/MELTING POINT: 212 F.
SPECIFIC GRAVITY: 1.19 g/mL (9.9 lb/gal)
pH: 7 - 8
VAPOR PRESSURE mmHg @ 20 C: 18 (as water) @ 68 F
WATER SOLUBILITY: Fully soluble in water.

SECTION 4 - FIRE & EXPLOSION HAZARD

FLASHPOINT (method): Does not flash.
FLAMMABLE LIMITS (LFL-UFL): N/A
FIRE AND EXPLOSION HAZARD: Combustion may yield steam, dicamba amine salt, hydrogen chloride, organochlorine products, oxides of nitrogen, carbon monoxide.
EXTINGUISHING MEDIA: Water fog, foam, dry chemical, CO₂
FIRE FIGHTING EQUIPMENT: Fire fighters should wear self contained breathing apparatus and turnout gear. Do not allow fire fighting water to escape into waterways or sewers.
NFPA 704 HAZARD CODE:
Health - 2
Flammable - 0
Reactivity - 0
NFPA 30 STORAGE CODE: Non-flammable liquid suspension.

SECTION 5 - HEALTH DATA

ACUTE TOXICITY:

Oral LD ₅₀ (rat)	-	2,629 mg/Kg
Dermal LD ₅₀ (rabbit)	-	> 2,000 mg/Kg
Inhalation LC ₅₀ (rat)	-	> 5.4 mg/L (4 hour)
Eye Irritation (rabbit)	-	Extremely irritating and may be corrosive
Skin Irritation (rabbit)	-	Mildly irritating
Sensitizer (guinea pig)	-	Non-sensitizer

EFFECTS OF OVEREXPOSURE: Causes eye irritation. Do not get in eyes, on skin, or on clothing. Harmful if swallowed. Avoid breathing spray mist. Wash thoroughly after handling. In case of contact, wash skin with soap and water; for eyes, flush with water for 15 minutes and get medical attention.

CHRONIC OVEREXPOSURE EFFECTS: There are no known chronic effects associated with this material.

SIGNS AND SYMPTOMS OF OVEREXPOSURE: Nonspecific. Symptoms may include exhaustion, muscular spasms, urinary incontinence, dyspnea and cyanosis. Severe eye damage may occur. Skin irritation may occur.

EXISTING MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE TO THIS MATERIAL: No information found for this mixture.

FIRST AID PROCEDURES:

IF IN EYES - Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention if irritation develops.

IF ON SKIN - Wash and rinse with plenty of soap and water. Launder clothing thoroughly before reuse.

IF SWALLOWED - Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. If person is unconscious, do not give anything by mouth and do not induce vomiting.

IF INHALED - Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention if symptoms persist.

NOTE TO PHYSICIAN - Treatment is symptomatic. For ingestion, lavage stomach with tap water. Instill 30 gm activated charcoal in 3-4 oz. of water. Catharsis with 15 gm sulfate in 6-8 oz. water.

SECTION 6 - STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable.

CONDITIONS TO AVOID: None known.

CHEMICAL INCOMPATIBILITY: None known.

HAZARDOUS DECOMPOSITION PRODUCTS: No data available.

HAZARDOUS POLYMERIZATION: No data available.

CORROSIVE TO METAL: No

OXIDIZER: No

SECTION 7 - PERSONAL PROTECTION

PESTICIDE APPLICATORS & WORKERS: Refer to the Product label and Directions For Use attached to the product for Agricultural Use Requirements in accordance with the EPA Worker Protection Standard 40 CFR part 170.

MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS:

CLOTHING - Long-sleeved shirt and long pants, Waterproof gloves, Shoes plus socks.

EYE PROTECTION - Protective eyewear.

RESPIRATORY PROTECTION - If vapors or mists are generated, wear a NIOSH/MSHA approved vapor/mist respirator if the PEL/TLV is exceeded.

VENTILATION - Use with adequate ventilation.

SECTION 8 - ECOLOGICAL INFORMATION

ENVIRONMENTAL TOXICITY: (Technical)

96 hour LC₅₀, Bluegill - > 1000 mg/L

96 hour LC₅₀, Trout - > 1000 mg/L

48 hour EC₅₀, Daphnia - 1600 mg/L

SARA TITLE III STATUS:

Fire: No

Sudden Pressure: No

Reactivity: No

Acute: Yes (irritation)

Chronic: No

TPQ: 10,000 lbs.

SPILL AND LEAK PROCEDURE: Contain spill and absorb with dry granules, sawdust or equivalent. Collect and place in suitable container for disposal. Area can be washed down with water and detergent to remove remaining herbicide. DO NOT ALLOW WASHINGS IN SEWER.

HAZARDOUS SUBSTANCE SUPERFUND: Yes, RQ 1,000 lbs.

WASTE DISPOSAL METHOD: Pesticide, spray mixture or rinsate that cannot be used cannot be used according to label instructions must be disposed of according to Federal, state and local procedures.

CONTAINER DISPOSAL: Triple rinse pesticide from containers and use rinsate in the pesticide application. If container is plastic or metal, offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities, such as burning of plastic containers. If burned, stay out of smoke.

SECTION 9 - TRANSPORT INFORMATION

DOT PROPER SHIPPING NAME:

> or + 248 gallons: ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S.

< 248 gallons: None.

DOT HAZARD CLASSIFICATION:

Primary - > or = 248 gallons: ENVIRONMENTALLY HAZARDOUS SUBSTANCE
- < 248 gallons: None

Secondary - None

DOT LABELS REQUIRED: Class 9

DOT PLACARDS REQUIRED: Class 9

CERCLA REPORTABLE QUANTITY: 1000 lbs of dicamba (248 gal of product)

SECTION 10 - PRODUCT LABEL

BANVEL^R

EPA REG. NO. 51036-289

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

KEEP OUT OF REACH OF CHILDREN

WARNING/AVISO

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

DISCLAIMER

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DATE PREPARED: July 14, 1999

DATE REVISED: Addition of Poison Control Emergency Numbers