

MATERIAL SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

COMPANY ADDRESS: Arysta LifeScience NA LLC
15401 Weston Pkwy, Ste. 150
Cary, NC 27513

EMERGENCY TELEPHONE NUMBERS:
FOR 24 HOUR EMERGENCY MEDICAL ASSISTANCE CALL: 1-866-303-6952
FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure,
or accident call CHEMTREC 1-800-424-9300

PRODUCT NAME : BANVEL® HERBICIDE
CHEMICAL NAME : Dimethylamine salt of dicamba
FORMULA : C₈H₆Cl₂O₃ - C₂H₇N
CHEMICAL FAMILY : Substituted benzoic acid
PRODUCT CODE : EPA Reg. No. 66330-276

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 - HAZARDS IDENTIFICATION SUMMARY

(As defined by OSHA Hazard Communication Standard, 29 CFR 1910.1200)

EMERGENCY OVERVIEW: Amber liquid with mild amine odor.

- Harmful if swallowed.
- Causes eye irritation.
- Avoid breathing spray mist.
- Avoid contact with eyes, skin or clothing.
- Keep out of reach of children.

POTENTIAL HEALTH HAZARDS:

EYE - Moderately irritating to the eyes. Degree of injury will depend on the amount of material that gets into eye and the speed and thoroughness of the first aid treatment.

SKIN - May cause skin irritation.

INHALATION - Spray mists may be harmful if inhaled.

INGESTATION - Harmful if swallowed.

POTENTIAL PHYSICAL HAZARDS: None known.

ENVIRONMENTAL HAZARDS: None known.

SECTION 4 - FIRST AID MEASURES

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 a poison control center or doctor. Do not give anything by mouth to an unconscious person.

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 INHALED: Remove from contaminated area. Observe victim closely. If irritation develops, get medical attention.

IF ON SKIN: Remove contaminated clothing. Wash with soap and water. Call a physician if irritation develops.

NOTE TO PHYSICIAN: Treat symptomatically.

SECTION 5 - 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 6 - ACCIDENTAL RELEASE MEASURES

Clean up spills immediately, observing precautions in Section 8 of this document. Isolate hazard area. Keep unnecessary personnel from entering.

SMALL SPILL: Absorb small spills on sand, vermiculite or other inert absorbent. Place contaminated material in appropriate chemical waste for disposal. Rinse area with water and place rinsate in chemical waste container for disposal.

LARGE SPILL: Dike large spills using absorbent or impervious material such as clay or sand. Recover and contain as much free liquid as possible for reuse. Allow any absorbed material to solidify, and scrape up for disposal. After removal, flush contaminated area thoroughly with water. Pick up wash liquid with additional absorbent and place in a disposable container.

SECTION 7 - HANDLING AND STORAGE

HANDLING: Use only in a well-ventilated area. Do not reuse this container.

STORAGE: Keep container closed when not in use. Keep away from food, feed and drinking water. Store in a well ventilated, dry place away from heat. Keep from freezing.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE LIMITS (8 HOUR TWA): (Refer to Section 3)

ENGINEERING CONTROLS: Proper ventilation is required when handling or using this product. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

PERSONAL PROTECTIVE EQUIPMENT:

EYE PROTECTION - Safety glasses.

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

GLOVES - Waterproof gloves.

RESPIRATOR - When handling in enclosed areas where exposure limits may be exceeded, use a dust/mist filtering respirator (MSHA/NIOSH number prefix TC-21C).

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS:

1. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
2. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL DESCRIPTION: Amber liquid.

ODOR: Mild amine odor.

BOILING/MELTING POINT: 212 °F.

DENSITY: 1.17 - 1.18 g/mL

pH: 7 - 8

VAPOR PRESSURE mmHg @ 20 °C: 18 (as water) @ 68 °F

WATER SOLUBILITY: Fully soluble in water.

SECTION 10 - STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable, however may decompose if heated.

CONDITIONS TO AVOID: Temperatures above 125°F (50°C) and below 30°F (0°C).

INCOMPATIBILITY WITH OTHER MATERIALS: None known.

HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen chloride, oxides of hydrogen and nitrogen.

HAZARDOUS POLYMERIZATION: Product will not undergo polymerization.

SECTION 11 - TOXICOLOGICAL INFORMATION

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)	-	Moderately irritating
Sensitizer (guinea pig)	-	Non-sensitizer

SECTION 12 - 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

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE: Pesticide wastes are toxic. Dispose of in accordance with applicable Federal, state and local laws and regulations.

CONTAINER: Refer to product label.

SECTION 14 - TRANSPORT INFORMATION

DOT PROPER SHIPPING NAME:

> or = 256 gallons: ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S.

< 256 gallons: None.

DOT HAZARD CLASSIFICATION:

Primary - > or = 256 gallons: ENVIRONMENTALLY HAZARDOUS SUBSTANCE

- < 256 gallons: None

Secondary - None

DOT LABELS REQUIRED: Class 9

DOT PLACARDS REQUIRED: Class 9

SECTION 15 - REGULATORY INFORMATION

FIFRA: All pesticides are governed under the Federal Insecticide, Fungicide, and Rodenticide Act. The regulatory information presented below is pertinent only when this product is handled outside of the normal use and application as a pesticide.

CERCLA REPORTABLE QUANTITY:

1,000 lbs	Dicamba, CAS No. 1918-00-9
1,000 lbs	Dimethylamine, CAS No. 124-40-3

SARA TITLE III STATUS:

302 Extremely Hazardous Substance - No
313 Toxic Chemicals - Dicamba, CAS No. 1918-00-9
Dimethylamine, CAS No. 124-40-3

SARA TITLE III STATUS:

Fire: No
Sudden Pressure: No
Reactivity: No
Acute: Yes (irritation)
Chronic: No
TPQ: 10,000 lbs.

SECTION 16 - OTHER INFORMATION

DISCLAIMER: The information presented herein is based on available data from reliable sources and is correct to the best of Arysta LifeScience North America (ALSNA) LLC's knowledge. ALSNA makes no warranty, express or implied, regarding the accuracy of the data or the results obtained from the use of this product. Nothing herein may be construed as recommending any practice or any product in violation of any law or regulations. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precautions. To the extent permitted by law, we disclaim all liability for injury or damage stemming from any improper use of the material or product described herein.

DATE REVISED: November 5, 2008
REVISIONS: Changes to Transportation information and density.
REVISED BY: A. Brown