

MATERIAL SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

COMPANY ADDRESS: Arysta Lifescience NA Corp.
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® + 2,4-D
CHEMICAL NAME : Mixture of dimethylamine salt of dicamba and dimethylamine salt of 2,4-D
CHEMICAL FAMILY : Mixture
PRODUCT CODE : EPA Reg. No. 66330-287

SECTION 2 - COMPOSITION, INFORMATION OF INGREDIENTS

COMPONENT	PERCENTAGE	CAS NUMBER	OSHA PEL	ACIGH TLV
Dimethylamine Salt of Dicamba	12.4%	2300-66-5	not listed	not listed
Dimethylamine Salt of 2,4-D	35.7%	2008-39-1	10 mg/m ³	10 mg/m ³
Inert Ingredients	51.9%	n/a	n/a	n/a

SECTION 3 - PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL DESCRIPTION: Amber solution.
ODOR: Mild amine odor.
BOILING/MELTING POINT: 215 F
SPECIFIC GRAVITY: 1.17 g/mL (9.75 lbs/gal)
pH: Not known.
VAPOR PRESSURE mmHg @ 20 C: 18 (as water) @ 68 F
WATER SOLUBILITY: Miscible in water.

SECTION 4 - FIRE & EXPLOSION HAZARD

FLASHPOINT (method): Does not flash.
FLAMMABLE LIMITS (LFL-UFL): N/A
NFPA 704 HAZARD CODE:
Health - 3
Flammable - 0
Reactivity - 0
NFPA 30 STORAGE CLASSIFICATION: Non-flammable liquid suspension.
FIRE AND EXPLOSION HAZARD: Combustion may yield steam, dicamba amine salt, 2,4-D amine salt, hydrogen chloride, organochlorine products, oxides of nitrogen, carbon monoxide.
EXTINGUISHING MEDIA: Water fog, foam, dry chemical, CO₂
FIRE FIGHTING PROCEDURES: Firefighters should wear self contained breathing apparatus and turnout gear. Do not allow fire fighting water to escape into waterways or sewers.

SECTION 5 - HEALTH DATA

ACUTE TOXICITY:

Oral LD ₅₀ (rat)	-	1,150 mg/Kg
Dermal LD ₅₀ (rabbit)	-	> 2,000 mg/Kg
Inhalation LC ₅₀ (rat)	-	> 20.3 mg/L (4 hour)
Eye Irritation (rabbit)	-	Corrosive
Skin Irritation (rabbit)	-	Minimally irritating

EFFECTS OF OVEREXPOSURE: DANGER: Corrosive. Causes irreversible eye damage. Do not get in eyes or on clothing. Wear goggles. Harmful if swallowed. Harmful if absorbed through skin. Avoid contact with skin. Harmful if inhaled. Avoid breathing spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

CHRONIC OVEREXPOSURE EFFECTS: There are no known chronic effects associated with this material. Excessive exposure to 2,4-D may cause liver, kidney, gastrointestinal and muscular effects. Excessive dietary levels of 2,4-D caused toxic effects (weight and viability reduction) in rats in a reproduction test.

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 SWALLOWED: Call a doctor and get medical attention. Do not induce vomiting. Drink promptly a large quantity of milk, egg whites, gelatin solution, or if these are not available, drink large quantities of water. Avoid alcohol.

IF ON SKIN: Wash with plenty of soap and water. Get medical attention.

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

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

SECTION 6 - STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable.

CHEMICAL INCOMPATIBILITY: None known.

HAZARDOUS DECOMPOSITION PRODUCTS: None known.

HAZARDOUS POLYMERIZATION: Product will not undergo polymerization.

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 mists are generated, wear a NIOSH/MSHA approved respirator for mists to prevent inhalation.

VENTILATION - Use local exhaust to control dusts/mists.

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 - > 1800 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 clay 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 sewers. Contain large spill and recover for product reuse.

HAZARDOUS SUBSTANCE SUPERFUND: Yes, RQ 1,000 lbs. (dicamba), 100 lbs. (2,4-D)

WASTE DISPOSAL METHOD: 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: Triple rinse pesticide from containers and use rinsates in the pesticide application.

SECTION 9 - TRANSPORT INFORMATION

DOT PROPER SHIPPING NAME:

= or > 34 gallons: Environmentally Hazardous Substances, Liquid, N.O.S.

< 34 gallons: None

DOT LABELS REQUIRED: Class 9

DOT PLACARDS REQUIRED: Class 9

CERCLA REPORTABLE QUANTITY: 2,4-D Acid - 100 lbs.; Dicamba - 1000 lbs.

BILL OF LADING DESCRIPTION:

> 979 gallons: Environmentally Hazardous Substances, N.O.S., 9, UN3082, PG III, RQ (2,4-D Salts, dicamba), ERG 171

34 - 979 gallons: Environmentally Hazardous Substances, N.O.S., 9, UN3082, PG III, RQ (2,4-D Salts), ERG 171

< 34 gallons: Compounds, Tree or Weed Killing, NOIBN (Herbicides)

UN/NA CODE: 3082

SECTION 10 - PRODUCT LABEL

BANVEL® + 2,4-D
EPA REG. NO. 66330-287

SHAKE WELL BEFORE USING

KEEP OUT OF REACH OF CHILDREN

DANGER/PELIGRO

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.)

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

IMPORTANT: WHILE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE, IT IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU MAKE TESTS TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, YOU EXPRESSLY UNDERSTAND AND AGREE THAT THE DESCRIPTIONS, DESIGNS, DATA, AND INFORMATION FURNISHED BY ARYSTA LIFESCIENCE NORTH AMERICA (ALSNA) CORPORATION HEREUNDER ARE GIVEN GRATIS AND ALSNA ASSUMES NO OBLIGATION OR LIABILITY FOR THE DESCRIPTION, DESIGNS, DATA AND INFORMATION GIVEN OR RESULTS OBTAINED, ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK.

DATE PREPARED: October 30, 2006 By: J. Butler

REVISIONS: Add new Company name, address, registration number and
Emergency telephone numbers