

**SAFETY DATA SHEET
DIRECT AG SOURCE, LLC
DICAMBA MAX 4**

1. IDENTIFICATION

Product Name: DICAMBA MAX 4
EPA Registration No. 83222-14
Chemical Name of Active Ingredient: Dimethylamine Salt of Dicamba (3,6-Dichloro-o-anisic Acid)
Company Name: Direct Ag Source, LLC
30473 260th St.
Eldora, IA 50627
For Information On This Product, Contact The National Pesticide Information Center: Phone: 1-800-858-7378
For Emergency Medical Treatment Information, Contact The National Poison Control Center, Day Or Night: (Monday-Friday 7:30 AM-3:30 PM PST)
Phone: 1-800-222-1222
For Chemical Emergencies, Spill, Leak, Fire, Exposure, or Accident, Call Chemtrec: Phone: 1-800-424-9300

2. HAZARDS IDENTIFICATIONS

EMERGENCY OVERVIEW: CAUTION Harmful if swallowed. Causes substantial but temporary eye injury. Do not get in eyes, on skin, or on clothing. Avoid breathing spray mist.

PHYSICAL PROPERTIES:

Appearance: Dark brown liquid.
Odor: slight amine odor.

ROUTES OF EXPOSURE: Inhalation, eye and skin contact.

POTENTIAL HEALTH EFFECTS:

Eye Contact: Mildly irritating based on toxicity studies.
Skin Contact: Slightly toxic and slightly irritating based on toxicity studies.
Ingestion: Slightly toxic based on toxicity studies.
Inhalation: Low inhalation toxicity.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis. Skin contact may aggravate existing skin disease.

3. COMPOSITION/INFORMATION ON INGREDIENTS

ACTIVE INGREDIENT	CAS NO.	%
Dimethylamine Salt of Dicamba (3,6-Dichloro-o-anisic Acid)	2300-66-5	49.2
Other Ingredients		50.8

4. FIRST AID MEASURES

FIRST AID

IF SWALLOWED:	<ul style="list-style-type: none">• Call a poison control center or doctor immediately for treatment advice.• Do not give any liquid to a person.• 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:	<ul style="list-style-type: none">• 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 ON SKIN OR CLOTHING:	<ul style="list-style-type: none">• Take off contaminated clothing.• Rinse skin immediately with plenty of water for 15-20 minutes• Call a poison control center or doctor for treatment advice.

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Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency medical treatment information call the National Poison Control Center, Day Or Night at 1-800-222-1222.

5. FIRE FIGHTING MEASURES

FLASH POINT: Not applicable

AUTOIGNITION TEMPERATURE: Not available

FLAMMABLE LIMITS: Not determined

EXTINGUISHING MEDIA: Recommended for large fires: foam or water spray. Recommended for small fires: dry chemical or carbon dioxide.

SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full fire-fighting turn out gear. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later.

UNUSUAL FIRE AND EXPLOSION HAZARDS: If water is used to fight fire, contain runoff, using dikes to prevent contamination of water supplies. Dispose of fire control water later.

HAZARDOUS DECOMPOSITION MATERIALS (UNDER FIRE CONDITIONS): May produce gases such as hydrogen chloride, organochlorine products, and oxides of carbon and nitrogen.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear appropriate protective gear for the situation. See Personal Protection information in Section 8.

ENVIRONMENTAL PRECAUTIONS: Prevent material from entering public sewer systems or any waterways. Do not flush to drain. Large spills to soil or similar surfaces may necessitate removal of topsoil. The affected area should be removed and placed in an appropriate container for disposal.

METHODS FOR CONTAINMENT: Dike spill using absorbent or impervious materials such as earth, sand or clay. Collect and contain contaminated absorbent and dike material for disposal.

METHODS FOR CLEANUP AND DISPOSAL: Pump any free liquid into an appropriate closed container. Collect washings for disposal. Decontaminate tools and equipment following cleanup. See Section 13: DISPOSAL CONSIDERATIONS for more information.

OTHER INFORMATION: Large spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies.

7. HANDLING AND STORAGE

Do not contaminate water, food, or feed by storage and disposal.

PRECAUTIONS TO BE TAKEN IN HANDLING: Avoid contact with eyes or clothing. Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove Personal Protective Equipment (PPE) immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

PRECAUTIONS TO BE TAKEN IN STORAGE: Store in original container in a well-ventilated area separately from fertilizer, feed and foodstuffs. Avoid cross-contamination with other pesticides. Spillage or leakage should be contained and absorbed with clay granules, sawdust, or equivalent material for disposal. Do not contaminate water, food or feed by storage or disposal.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

GENERAL PROTECTIVE MEASURES: Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material: 1) do not store, use and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is

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stored; 2) wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics or using the toilet.

EYE/FACE PROTECTION: Not normally required. To avoid contact with eyes, wear chemical goggles or shielded safety glasses. An emergency eyewash or water supply should be readily accessible to the work area.

SKIN PROTECTION: TO avoid contact with skin, wear long pants, long-sleeved shirt, socks, shoes and chemical-resistant gloves. An emergency shower or water supply should be readily accessible to the work area.

RESPIRATORY PROTECTION: Not normally required. If vapors or mists exceed acceptable levels, wear NIOSH approved air-purifying respirator with cartridges/canisters approved for use against pesticides.

USER SAFETY RECOMMENDATIONS:

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove clothing immediately after handling this product. Wash outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENGINEERING CONTROLS: Where engineering controls are indicated by specific use conditions or a potential for excessive exposure, use local exhaust ventilation at the point of generation

EXPOSURE LIMITS:

Chemical Name	CAS NO.	ACGIH/TLV	OSHA/PEL
Dimethylamine Salt of Dicamba (3,6-Dichloro-o-anisic Acid)	2300-66-5	NE	NE

NE : Not Established

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Dark brown liquid

ODOR: Slight amine odor

FLASH POINT: Not applicable

pH: 6.5 – 7.5

SPECIFIC DENSITY: 1.168 @20°C (9.73 pounds/gallon)

SOLUBILITY IN WATER: Soluble

VISCOSITY: 6.342 cst @20°C

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: This material is stable under normal handling and storage conditions.

CONDITIONS TO AVOID: None known

INCOMPATIBLE MATERIALS: None known

HAZARDOUS DECOMPOSITION PRODUCTS: Under fire conditions may produce gases such as hydrogen chloride, organochlorine products, and oxides of carbon and nitrogen.

HAZARDOUS REACTIONS: Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY/IRRITATION STUDIES:

Acute Oral LD50 (Rat): > 5,000 mg/kg (females)

Acute Dermal LD50 (Rat): > 5,000 mg/kg

Acute Inhalation LC50 (Rat): 2.02 mg/L (4-hr)

Eye Irritation (Rabbit): Mildly irritating.

Dermal Irritation (Rabbit): Mildly irritating.

Dermal Sensitization (Guinea Pig): Not a skin sensitizer

SUBCHRONIC (TARGET ORGAN) EFFECTS: Repeated overexposure to dicamba may cause liver changes or a decrease in body weight.

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CARCINOGENICITY / CHRONIC HEALTH EFFECTS: Dicamba did not cause cancer in long-term animals studies. The U.S. EPA has given dicamba a Class D classification (not classifiable as to human carcinogenicity).

REPRODUCTIVE TOXICITY: Dicamba did not interfere with fertility in reproduction studies in laboratory animals.

DEVELOPMENTAL TOXICITY: Animal tests with dicamba have not demonstrated developmental effects.

GENOTOXICITY: Animal tests with dicamba did not demonstrate mutagenic effects.

ASSESSMENT CARCINOGENICITY: None listed with ACGIH, IARC, NTP or OSHA.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL HAZARDS: This pesticide is toxic to fish, aquatic invertebrates, small mammals and birds. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Cover or incorporate spills. Do not contaminate water when disposing of equipment wash water or rinsate. This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

ECOTOXICITY: Data on Dicamba:

96-hour LC ₅₀ Bluegill:	135 mg/l	Bobwhite Quail 8-day Dietary LC ₅₀ :	>10,000 ppm
96-hour LC ₅₀ Rainbow Trout:	135 mg/l	Mallard Duck 8-day Dietary LC ₅₀ :	>10,000 ppm
48-hour EC ₅₀ Daphnia:	110 mg/l		

ENVIRONMENTAL FATE:

Dicamba poorly binds to soil particles, is potentially mobile in the soil and highly soluble in water. Aerobic soil metabolism is the main degradative process for dicamba with a typical half-life of 2 weeks. Degradation is slower when low soil moisture limits microbe populations. In water, microbial degradation is the main route of dicamba dissipation. Aquatic hydrolysis, volatilization, adsorption to sediments, and bioconcentration are not expected to be significant.

13. DISPOSAL CONSIDERATIONS

PESTICIDE DISPOSAL: Triple rinse pesticide from containers and use rinsates in the pesticide application. Wastes which cannot be used according to label instructions may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: After triple rinsing (or equivalent), 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.

14. TRANSPORT INFORMATION

Package size < 265 gallons: Not Regulated

Package size > or = 265 gallons : UN 3082, RQ, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DICAMBA), 9, III

15. INFORMATION

SARA TITLE III CLASSIFICATION:

Section 302:	Not applicable.
Section 311/312:	Acute health hazard (immediate)
Section 313:	Dicambe (CAS No. 1918-00-9) (40%)

CERCLA RQ:

<u>Chemical Name</u>	<u>CAS NO.</u>	<u>RQ (Pound)</u>	<u>% in Product</u>
Dicamba	1918-00-9	1,000	40%

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RCRA CLASSIFICATION: Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

TSCA STATUS: All ingredients are listed on the TSCA inventory or are not required to be listed on the TSCA inventory.

STATE RIGHT-TO-KNOW: Other state regulations may apply. Check individual state requirements.

CALIFORNIA PRO 65: Not listed

16. OTHER INFORMATION

NFPA HAZARD RATINGS	NFPA		
HEALTH:	1	0	MINIMAL
FLAMMABILITY:	1	1	SLIGHT
REACTIVITY:	0	2	MODERATE
		3	HIGH
		4	SEVERE

MSDS DATE: 7-25-2012. Supercedes versions dated 2-28-2008. Changes made to all sections.

The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state, or provincial, and local laws.