

# Doleac™ DMA

## SAFETY DATA SHEET

EMERGENCY CALL: 1-800-424-9300 (CHEMTREC)

### 1. IDENTIFICATION

**PRODUCT NAME:** Doleac DMA  
**DESCRIPTION:** A liquid herbicide  
**EPA REG. NO.:** 91234-148  
**COMPANY IDENTIFICATION:** Atticus, LLC  
5000 CentreGreen Way, Suite 100  
Cary, NC 27513

### 2. HAZARD IDENTIFICATION

#### WARNING

Causes serious eye irritation  
May be harmful if swallowed  
May be harmful in contact with skin



### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Common Name	Chemical Name	CAS#	Composition
Dicamba DMA	Dimethylamine Salt of 3,6-Dichloro-o-anisic acid	2003-66-5	50.2%

### 4. FIRST AID MEASURES

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact SafetyCall® at 1-844-685-9173.

**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. If eye irritation persists: Get medical attention/advice.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with water for 15-20 minutes. Call a doctor or poison control center if you feel unwell.

**IF SWALLOWED:** Immediately call a poison control center or doctor. Rinse mouth out and 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.

### 5. FIREFIGHTING MEASURES

**Flash Point:** Not flammable

**Flammable Limits:** Not determined

**FIRE AND EXPLOSION HAZARDS:** Thermal decomposition during a fire can produce fumes and irritating gases.

**Extinguishing Medium:** Water spray, dry foam, dry chemical or carbon dioxide (CO<sub>2</sub>).

**Fire Fighting Equipment:** Firefighters should be equipped with self-contained positive pressure breathing apparatus and full bunker gear.

**Fire Fighting Instructions:** Evacuate the area and fight fire upwind from a safe distance to avoid hazardous vapors and decomposition products. Dike and collect fire-extinguishing water to prevent environmental damage with excessive water runoff.

**Hazardous Combustion Products:** Hydrogen chloride, organochlorine products, and carbon and nitrogen oxides.

**NFPA Ratings:** Health – 2 / Flammability – 1 / Reactivity - 0

### 6. ACCIDENTAL RELEASE MEASURES

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

**Small Spills:** Contain small spill by diking with a suitable absorbent material. Sweep up absorbed spill and place material in appropriate recovery drums for disposal.

**Large Spills:** Contain large spills by diking with a suitable absorbent material and recover for disposal. After removal, neutralize the spill area, tools, and equipment with a dilute alkaline solution (soda ash or lime) followed by an appropriate alcohol (methanol, ethanol or isopropanol). Wash the spill area, tools, and equipment with strong soap and water solution. Absorb any excess liquid and add to the recovery drums of waste already collected. Dispose all wastes as described in Section 13.

## 7. HANDLING AND STORAGE

**Keep out of reach of children.**

**Handling:** Use only in a well ventilated area. Do not get in eyes, on skin, or on clothing. Avoid breathing spray mist.

**Storage:** Keep in original container, tightly closed, out of reach of children. Keep away from food, drink and animal feeding stuffs. Containers should be stored in a cool, dry, well-ventilated area away from flammable materials and sources of heat or flame.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Controls:** Proper ventilation is required when handling or using this product. Ventilate all transport vehicles prior to unloading. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

**Protective Clothing:** Wear coveralls or long-sleeved shirt and long pants, shoes plus socks, and chemical resistant gloves (such as barrier laminate, nitrile rubber, neoprene rubber, or Viton), and goggles or face shield.

When handling in enclosed areas, when large quantities of mists are generated, or prolonged exposure is possible, use a respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G).

**General:** Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. Discard clothing and other absorbent materials that have been heavily contaminated with this product. 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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Transparent dark amber liquid

**Odor:** Amine odor

**pH:** 8 – 9

**Viscosity:** 5.30 cP @ 25°C; 3.34 cP @ 40°C

**Density:** 1.150 gm/cm<sup>3</sup> @ 25°C; 1.143 @ 40°C

**Solubility:** Miscible in water.

## 10. STABILITY AND REACTIVITY

**CONDITIONS TO AVOID:** Avoid excessive heat and fire.

**CHEMICAL STABILITY:** Stable under all normal use and storage conditions. May decompose if heated.

**INCOMPATIBILITY WITH OTHER MATERIALS:** Oxidizing agents and acids.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Hydrogen chloride, oxides of carbon and nitrogen, and organochlorine products.

**HAZARDOUS POLYMERIZATION:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

**ORAL TOXICITY (rat LD50):** > 2,000 mg/kg

**DERMAL TOXICITY (rabbit LD50):** > 2,000 mg/kg

**INHALATION TOXICITY (rat LC50):** > 5.0 mg/L (4-hour)

**EYE IRRITATION:** Rabbit – Moderately irritating

**SKIN IRRITATION:** Rabbit – Slightly irritating

**SKIN SENSITIZATION:** Not a contact sensitizer

**CARCINOGENICITY:**

**EPA:** Not Listed

**ACGIH:** Not Listed

**IARC:** Not Listed

**NTP:** Not Listed

**OSHA:** Not Listed

**MUTAGENIC TOXICITY:** No evidence of mutagenic effects during in vivo and in vitro assays.

**REPRODUCTIVE TOXICITY:** Not known to cause reproductive or birth defects at normal exposure levels.

## 12. ECOLOGICAL INFORMATION

Practically non-toxic to fish and aquatic invertebrates. May be toxic to nontarget aquatic plants. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters. Practically non-toxic to birds, honey bees, and other wildlife.

Dicamba has a low binding affinity in soil and sediment particles and has been detected in groundwater at very low levels below the drinking water levels of concern (DWLOC). Laboratory studies indicate that dicamba is stable to oxidation and hydrolysis, and is somewhat susceptible to photolysis in an aqueous environment. The half-life in surface water under field conditions was < 7 days. In soils, dicamba dissipates more quickly by microbial degradation in aerobic environments, with a half-life typically ranging from 14 to 28 days. Dicamba is more persistent in anaerobic environments with a half-life of 141 days.

**AQUATIC TOXICITY**

Rainbow Trout (96-hr LC<sub>50</sub>): 1,000 mg/L

Bluegill (96-hr LC<sub>50</sub>): 1,000 mg/L

Daphnia (48-hr EC<sub>50</sub>): 1,600 mg/L

**AVIAN TOXICITY**

Mallard Duck (Oral LD<sub>50</sub>): > 2,510 mg/kg

Mallard Duck (Oral 8-day): > 4,533 ppm

Bobwhite Quail (Oral 8-day): > 4,533 ppm

## 13. DISPOSAL CONSIDERATIONS

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

**CONTAINER DISPOSAL:** Nonrefillable container. Do not reuse or refill this container. Refer to the product label for specific container disposal instructions.



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## 14. TRANSPORT INFORMATION

### US DOT:

#### Containers < 1.3 Gallons (5 Liters) shipped by land:

Not regulated by DOT.

#### Containers > 1.3 Gallons (5 Liters) or shipments by air:

**DOT Shipping Name:** UN3082, Environmentally Hazardous Substance, Liquid, N.O.S. (contains Dicamba), 9, PG III

**DOT Emergency Response Guide:** 171

**Reportable Quantity:** 1,000 lbs. (250 gallons of product)

**Marine Pollutant:** No

## 15. REGULATORY INFORMATION

### FIFRA –

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. The following is the hazard information as required on the pesticide label:

#### PRECAUTIONARY STATEMENTS

##### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

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

See inside label booklet for additional Precautionary Statements and Directions for Use including Storage and Disposal instructions.

#### ENVIRONMENTAL HAZARDS

Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

Apply this product only as directed on label

All pesticides are governed under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). The regulatory information presented below is pertinent only when this product is handled outside of the normal use and application as a pesticide. This product is excluded from listing requirements under EPA/TSCA.

#### SARA Title III – Section 302 Extremely Hazardous Substances

Not listed

#### SARA Title III – Section 311/312 Hazard Categories

Immediate

#### SARA Title III – Section 312 Threshold Planning Quantity

N/A

#### SARA Title III – Section 313 Reportable Ingredients

Dicamba (CAS #1918-00-9): 41.7%

Dicamba DMA (CAS #2300-66-5): 50.2%

#### CERCLA Reportable Quantity (RQ) –

Dicamba (CAS #1918-00-9): 1,000 lbs. (250 gallons of product)

#### CALIFORNIA PROP 65 STATUS –

This product does not contain any chemical known to the state of California to cause cancer or reproductive harm.

### CANADA –

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

## 16. OTHER INFORMATION

**DISCLAIMER:** The information herein is presented in good faith and believed to be accurate as on the effective date shown above. However, no warranty, expressed 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 and Local laws and regulations.

SDS Version: 3.0 (conversion from MSDS)

Effective Date: 05/28/2015

Original Date: November 18, 2009

Revised: September 16, 2010  
May 28, 2015



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