



# Gharda Chemicals Limited

## MATERIAL SAFETY DATA SHEET

Gharda Chemicals Limited  
660 Newtown Yardley Road, Suite 106  
Newtown, PA 18940

**Emergency Response Telephone Number**  
For Spills Call: 1-(800)-424-9300  
For Medical Call: 1-(866)-359-5660

### I. MATERIAL IDENTIFICATION

Product Name: **Oracle Dicamba Agricultural Herbicide**

EPA Registration No: 33658-14

Canada Registration No: 26722

**INGREDIENTS:**

**(% w/w)**

Dicamba Dimethylamine Salt (CAS Reg. No. 2300-66-2) 49.77%  
DMA Salt of 3,6-dichloro-*o*-anisic acid \*

Dimethylamine Salt of Related Acids 0.60%

Inert Ingredients 49.63%

\* Contains 41.35% dicamba acid equivalent, or 4 lbs/gallon (480 grams/liter)

Chemical Class: Substituted Benzoic Acid

EPA Signal Word: Warning

### II. HAZARDOUS INGREDIENTS

<b><u>MATERIAL:</u></b>	<b><u>OSHA PEL</u></b>	<b><u>ACGIH TLV</u></b>
Active Ingredient: Dicamba DMA Salt	Not established	Not established
Related Compounds: Trade Secret	N/A	N/A

### III. HEALTH HAZARD DATA

**EYE:** Causes severe eye irritation. May be corrosive.

**SKIN CONTACT:** Exposure may cause skin irritation and dermal sensitization.

**SKIN ABSORPTION:** The acute dermal toxicity is considered to be low. The percutaneous LD<sub>50</sub> for rabbits is greater than 2000 mg/kg.

**INGESTION:** The acute oral toxicity is considered to be low. The oral LD<sub>50</sub> for rats is 2629 mg/kg. Small amounts that might be swallowed incidental to normal handling operations are not likely to cause injury; swallowing larger amounts may be hazardous.

**INHALATION:** The acute inhalation toxicity is considered to be low. The LC<sub>50</sub> for rats is greater than 5.4 mg/l for 4 hours.

**CANCER INFORMATION:** Did not cause cancer in long-term animal studies. There were no treatment related increases in tumors at dietary levels up to 2500 ppm (rats and dogs) and 3000 ppm (mice).

**TERATOLOGY (BIRTH DEFECTS):** Did not cause birth defects in animal studies. Exposures having no effect on the mothers had no effect on the fetuses. The maternal and fetal no effect levels in rabbits were 30 mg/kg and 300 mg/kg, respectively. In the rat teratology study, the maternal and fetal no effect levels were 160 mg/kg and 400 mg/kg, respectively.

**REPRODUCTIVE EFFECTS:** Dicamba did not interfere with fertility in reproduction studies in laboratory animals. The no effect level in a two-generation rat reproduction study was 500 ppm.

**MUTAGENICITY (EFFECTS ON GENETIC MATERIAL):** Based on a number of *in vivo* and *in vitro* studies, the preponderance of data suggests that dicamba is not a mutagen.

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#### IV. FIRST AID PROCEDURES

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**EYES:** Hold eyelids open and flush with a steady gentle stream of water for 15 minutes. Get medical attention if irritation develops.

**SKIN:** Wash with a mild soap and rinse with plenty of water. Remove contaminated clothing and thoroughly wash before reuse.

**INGESTION:** Call a physician or Poison Control Center immediately. Drink one or two glasses of water and induce vomiting back touching back of throat with finger or a blunt object. If person is unconscious, do not give anything by mouth and do not induce vomiting.

**INHALATION:** 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. Although symptoms are nonspecific, they may include exhaustion, muscular spasms, urinary incontinence, dyspnea and cyanosis. 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.

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#### V. PHYSICAL HAZARD INFORMATION

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**CHEMICAL & PHYSICAL PROPERTIES:**

Color:	Amber
Physical State:	Liquid
Odor:	Mild amine odor
Boiling Point:	212°F (100°C)
Density:	9.68 lbs/gal (1.16 gm/cm <sup>3</sup> )
Solubility:	Fully soluble in water
Vapor Pressure:	18 mm Hg at 20°C
Vapor Density:	>1.0 (Air=1)
pH:	7 to 8
Stability:	Stable

### **FIRE AND EXPLOSION HAZARDS:**

Flash Point:	Does not flash
Flammability Limits:	LFL: Not applicable UFL: Not applicable
Extinguishing Media:	Water Spray, Foam, Dry Chemical
Fire & Explosion Precautions:	Foam fire-extinguishing system is preferred because uncontrolled water can spread possible contamination. Do not allow fire fighting water to escape into waterways or sewers. Toxic irritating gases can be formed.
Fire-Fighting Equipment:	Use positive-pressure self-contained breathing apparatus and full protective equipment.

### **REACTIVITY:**

Stability:	(CONDITIONS TO AVOID) None known.
Incompatibility:	(SPECIFIC MATERIALS TO AVOID) None known.
Hazardous Decomposition:	Under fire conditions, steam, dicamba amine salt, hydrogen chloride, organochloride products, oxides of nitrogen, or carbon monoxide can be formed.
Hazardous Polymerization:	No data available.

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## **VI. ENVIRONMENTAL PROTECTION**

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**IN CASE OF SPILLS OR LEAKS:** Absorb liquid with material such as sand, sawdust, or dirt. Sweep up and place in a suitable container for disposal. Area can be washed down with water and detergent to remove remaining herbicide. Keep product, contaminated materials and wash water out of sewers. Wash exposed body areas thoroughly after handling.

**DISPOSAL METHOD:** Do not contaminate food, feed, or water by storage or cleaning of equipment. Wastes resulting from the use of this product may be disposed of on site, if approved waste handling facilities are available, or at an approved waste handling facility.

**ENVIRONMENTAL PRECAUTIONS:** This pesticide may cause injury to desirable trees and plants. Do not apply directly to water, surface waters or runoff areas. Avoid spray drift and other means of exposure to sensitive plants and other non-target areas.

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## VII. PERSONAL PROTECTION AND PRECAUTIONS

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**EXPOSURE GUIDELINE(S):** ACGIH TLV and OSHA PEL levels are not established for dicamba acid or dicamba dimethylamine salt. For dimethylamine, the OSHA and ACGIH exposure limits based upon TWA and STEL are 9.2 mg/m<sup>3</sup> and 27.6 mg/m<sup>3</sup>, respectively.

**VENTILATION:** Provide general and/or local exhaust ventilation to control airborne levels below the exposure guideline.

**RESPIRATORY PROTECTION:** Atmospheric levels should be maintained below the exposure guideline. For most conditions, no respiratory protection should be needed; however, if the exposure guideline is exceeded, use an approved organic vapor/mist respirator.

**EYE/FACE PROTECTION:** Use protective eyewear.

**SKIN PROTECTION:** Wear long-sleeved shirt and long pants, waterproof gloves and shoes plus socks when handling.

**SPECIAL PRECAUTIONS FOR HANDLING AND STORAGE:** See label. Causes eye irritation. Do not get in eyes, on skin, or on clothing. Wash thoroughly with soap and water after handling and before eating or smoking. Avoid breathing mist. Keep away from food, feedstuffs, and water supplies.

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## VIII. DOT HAZARDOUS MATERIALS INFORMATION

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### U.S. DOT CLASSIFICATION

#### PROPER SHIPPING NAME

= or > 248 gal: Environmentally Hazardous Substances, Liquid (Dicamba) N.O.S.  
< 248 gal: None

#### U.S. D.O.T. HAZARD CLASSIFICATION

**PRIMARY:** = or > 248 gal: Environmentally Hazardous Substances  
< 248 gal: None

**SECONDARY:** None

#### U.S. D.O.T. BILL OF LADING DESCRIPTION

= or > 248 gal: Environmentally Hazardous Substances, Liquid, N.O.S. 9, UN 3082, PG III, RQ (Dicamba), ERG 171  
< 248 gal: Compounds, Tree or Weed Killing (Herbicides) NOIBN

**CERCLA REPORTABLE QUANTITY:** Dicamba has a Reportable Quantity (RQ) of 1000 pounds (248 gal of product).

**CANADA TDG CLASSIFICATION SOR/2008-34 (Amendment 6)**

**UN Number: UN3082**

**Shipping Name and Description: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
Class: 9**

**Packing Group/Category: III**

**Special Provisions: 16**

**Explosive Limit and Limited Quantity Index: 5**

**ERAP Index: NONE**

**Passenger Carrying Ship Index: NONE**

**Passenger Carrying Ship Index: NONE**

**Marine Pollutant:**

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**IX. REGULATORY INFORMATION**

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**SARA HAZARD CATEGORY:** This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

An immediate health hazard

**TOXIC SUBSTANCES CONTROL ACT (TSCA):** All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

**OSHA HAZARD COMMUNICATION STANDARD:** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) RATINGS:**

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<b>Category</b>	<b>Rating</b>
Health	1
Flammability	0
Reactivity	0

**COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (CERCLA, or SUPERFUND):** This product contains the following substance(s) listed as "Hazardous Substances" under CERCLA, which may require reporting of releases:

Category:

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<b>Chemical Name</b>	<b>CAS Number</b>	<b>RQ</b>	<b>% in Product</b>
Dicamba	1918-00-9	1000	41.35%

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Issue Date: February 2, 2000

Revised: December 4, 2002 (Address Change)  
July 1, 2003 (Company Name Change)  
February 24, 2005 (EPA Reg. No. Update)  
January 01, 2007 (D.O.T. Regulations Update)  
May 1, 2009 (Canada TDG Regulations Update)

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). In addition, other substances not “Hazardous” per this OSHA Standard may be listed.

Where proprietary ingredient shows, the identity may be made available as provided in this standard.

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**NOTICE:** The information herein is presented in good faith and believed to be accurate as of 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. See MSDS for health and safety information.