



# Gharda Chemicals Limited

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## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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Product Name: **Oracle<sup>®</sup> Dicamba**  
**Agricultural Herbicide**

EPA Registration No: 33658-30  
Canada Registration No: 26722

Gharda Chemicals Limited  
660 Newtown-Yardley Rd.  
Newtown, PA 18940

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

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## 2. COMPOSITION / INFORMATION ON INGREDIENTS

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<b>INGREDIENTS:</b>	<b>(% w/w)</b>
Dicamba Dimethylamine Salt (CAS Reg. No. 2300-66-2)	49.77
DMA Salt of 3,6-dichloro- <i>o</i> -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: Benzoic acid herbicide

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## 3. HAZARD IDENTIFICATION

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### EMERGENCY OVERVIEW:

- EPA Signal Word: Caution
- Eye irritant
- Harmful if swallowed or absorbed through the skin.
- Avoid contact with skin, eyes and clothing.
- In a fire, toxic irritating gases can be formed.
- For exposure to fire, wear protective equipment.

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## 4. FIRST AID MEASURES

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**IF SWALLOWED:** Call poison control center or doctor immediately for treatment advice. Do not give any liquid to the person. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

**Oracle<sup>®</sup>** is a registered trademark of Gharda Chemicals Limited.

**IF INHALED:** Remove person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for further treatment advice.

**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.

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## 5. FIRE FIGHTING MEASURES

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

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## 6. ACCIDENTAL RELEASE MEASURES

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**IN CASE OF SPILLS OR LEAKS: FOR EMERGENCY:** Call CHEMTREC 1-800-424-9300. 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.

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## 7. HANDLING AND STORAGE

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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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## 8. PERSONAL PROTECTION

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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.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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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

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## 10. STABILITY AND REACTIVITY

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Stability:	(CONDITIONS TO AVOID) None known.
Conditions to avoid:	(SPECIFIC MATERIALS TO AVOID) None known.
Hazardous decomposition products:	In a fire, 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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## 11. TOXICOLOGICAL INFORMATION

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**EYE:** Causes eye irritation.

**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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## 12. ECOLOGICAL INFORMATION

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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 disposing of equipment washwater or rinsate. 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. This pesticide may cause injury to desirable trees and plants.

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## 13. DISPOSAL CONSIDERATIONS

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Pesticide spray mixture or rinsate that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticides. Improper disposal of excess pesticide spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by the 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.

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## 14. TRANSPORT 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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## 15. 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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Category	Rating
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:

Chemical Name	CAS Number	RQ	% in Product
Dicamba	1918-00-9	1000	41.35%

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**16. OTHER INFORMATION**

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Issue Date: October 4, 2013

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.