



Gharda Chemicals Limited

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Dicamba Technical** EPA Registration No: 33658-12
Canada Registration No: 26718

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

2. COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENTS:

Dicamba (CAS Reg. No. 1918-00-9)	98.3%
3,6-dichloro-o-anisic acid (IUPAC name)	
3, 6-dichloro-2-methoxybenzoic acid (CA name)	

Other Ingredients 1.7%

Chemical Class: Benzoic acid herbicide

3. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW:

- EPA Signal Word: Danger
- Corrosive, causes irreversible eye damage.
- Wear goggles or face shield when handling.
- Harmful if swallowed, absorbed through skin, or inhaled.
- Avoid breathing dust.
- In a fire, high temperatures may produce irritating gases and vapors.

4. FIRST AID MEASURES

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.

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: 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 SWALLOWED: Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. 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.

NOTE TO PHYSICIAN: Corrosive. Probable mucosal damage may contraindicate the use of gastric lavage. Causes irreversible eye damage.

5. FIRE FIGHTING MEASURES

Extinguishing media	Dry chemical, carbon dioxide, water spray
Special instruction	Do not release chemically contaminated water into drains, municipal sewers, waterways and soil.
Special protective measure	Evacuate area. Flood with water. To fight large fires, wear full protective clothing and NIOSH approved self-contained breathing apparatus with full-face piece operated in the positive pressure/demand mode. Full fire fighting turnout gear (bunker gear): Any air respirator supplied with full facepiece and operated in a pressure-demand or other positive pressure mode in combination with a separate escape supply. Any self-contained breathing apparatus with a full facepiece.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment.
Methods for cleaning up	Avoid dusting or misting conditions during cleanup. If material is uncontaminated, collect and reuse as recommended for product. If contaminated, put in appropriate container and dispose according to Local, State or Federal regulations. Keep spills away from drinking supplies. After spill cleanup, Flush the area with water. Read label.
Large spills	Extinguish all ignition sources, ventilate air. Cleanup personnel require protective clothing and respiratory protection.
Environmental Precautions	Prevent contamination of water.

7. HANDLING AND STORAGE

Handling precautions	Do not eat, drink or smoke when handling; wash hands before eating, drinking or smoking. Remove contaminated clothing immediately.
Storage	Keep separated from incompatible substances. Store in a cool and well-ventilated room.

8. PERSONAL PROTECTION

Hand protection	Wear appropriate chemical resistant gloves.
Eye protection	Wear splash-proof or dust-resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.
Skin and body protection	Wear overall and closed footwear.

9. PHYSICAL AND CHEMICAL PROPERTIES

Color:	Colorless to buff
Physical form:	Crystalline solid
Odor:	Odorless
Molecular weight:	221.0
Molecular formula:	$C_8H_6Cl_2O_3$
Melting point/ freezing point:	114 – 116 °c
Specific gravity/vapor density:	1.526 g/ml at 25°c
Flash point:	Not applicable
Vapor pressure:	4.5mpa at 25°c
Boiling point:	Not available
Solubility:	Readily soluble in organic solvent such as acetone, ethanol, cyclohexanone, dichloromethane, dioxane, toluene, and xylene

10. STABILITY AND REACTIVITY

Stability	Resistant to oxidation and hydrolysis under normal condition; stable in acids & alkalis.
Conditions to avoid	Protect from moisture and heat.
Hazardous decomposition	High temperature of fire may produce irritating gases and vapors.
Hazardous polymerization	Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute LD ₅₀ oral rats	>1707 mg/kg b. wt.
Acute LD ₅₀ dermal rabbits	>2000 mg/kg b. wt.
Acute LC ₅₀ inhalation rats (4 h)	9.6 mg/l
Eye irritation (rabbits)	Moderate irritant
Skin irritation (rabbits)	slightly irritant
Skin sensitization	Non skin sensitizer
Carcinogenicity	Not listed as carcinogenic
Mutagenicity	No evidence of mutagenic effects

12. ECOLOGICAL INFORMATION

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollution Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

TOXICITY DATA:

Acute toxicity mallard ducks	LD ₅₀ : > 2000 mg/kg b.wt
Acute toxicity mallard ducks, 8 day	LC ₅₀ : >10000 mg/kg diet
Acute toxicity bobwhite Quail, 8 day	LC ₅₀ : >10000 mg/kg diet
Acute toxicity to fish 96 hrs	Bluegill sunfish LC ₅₀ : 96 (h): 135 mg/L Rainbow trout LC ₅₀ : 96 (h): 135 mg/L
Acute toxicity to Honey bee	Non toxic to bees LD ₅₀ >100 µg/bee
Daphnia	LC ₅₀ (48 h) 110 mg / L

13. DISPOSAL CONSIDERATIONS

Pesticide disposal: Wastes resulting from the use of this product must be disposed of at an approved waste disposal facility.

Container disposal: Contaminated packaging material should be treated as the product. See label for proper disposal methods.

14. TRANSPORT INFORMATION

UN No. 3077

IMDG Class 9

Dicamba Technical

Page 4 of 5

IMO Description (Dicamba)	Environmentally Hazardous Substance, solid, N.O.S.
Packing group	III
RQ	(Dicamba)

15. REGULATORY INFORMATION

NFPA CODES

RISK AND SAFETY PHRASES:

RISK PHRASES:

R 20/21: Harmful by inhalation and when in contact with skin.
R 22: Harmful if swallowed.
R 36/38: Irritating to eye and skin.

SAFETY PHRASES:

- S1/2: Keep locked up, keep out of reach of children.
- S 13: Keep away from food, drink and animal feeding stuffs.
- S 20/21: When using, do not eat, drink or smoke.
- S36/37: Wear suitable protective clothing and gloves.
- S 45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)
- S 60: This material and its container must be disposed of as hazard waste.

16. OTHER INFORMATION

Issue Date: October 4, 2010

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.