Safety Data Sheet

Issue Date: 16-Sep-2022 **Revision Date:** 18-Jan-2024 **Version** 2

1. IDENTIFICATION

Product identifier

Product Name **Dicamba 4L DMA**

Other means of identification

SDS # ADAMA-327

Registration Number(s) EPA Reg. No. 66222-301

UN/ID No UN3082

Recommended use of the chemical and restrictions on use

Recommended Use EPA registered herbicide.

Details of the supplier of the safety data sheet

Manufacturer Address

Makhteshim Agan of North America, Inc. (d/b/a ADAMA)
3120 Highwoods Blvd., Suite 100
Raleigh, NC 27604
1-919-256-9300

Emergency telephone number

Emergency Telephone For fire, spill and/or leak contact INFOTRAC:
1-800-535-5053 (North America) 1-352-323-3500 (International)
For medical emergencies and health/safety inquiries, contact ProPharma Group:
1-877-250-9291

2. HAZARDS IDENTIFICATION

This chemical is a product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-EPA registered chemicals. Please see Section 15 for additional EPA information.

Appearance Transparent dark amber liquid **Physical state** Liquid **Odor** Amine

Classification

Serious eye damage/eye irritation	Category 2A

Signal Word

Warning

Hazard statements

Causes serious eye irritation

Precautionary Statements - Prevention
Wash face, hands and any exposed skin thoroughly after handling
Wear eye protection/ face protection

Precautionary Statements - Response
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention

Other hazards
Harmful to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Dimethylamine dicamba	2300-66-5	50.2

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of first aid measures

General Advice When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.

Eye Contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Skin Contact Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison center or doctor/physician if you feel unwell.

Inhalation Remove person to fresh air. If not breathing, administer artificial respiration including oxygen. Provide medical attention.

Ingestion Immediately call a poison center or doctor/physician. Rinse mouth out with water. Have person sip water if able to swallow. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

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

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Dry foam, carbon dioxide, dry chemical. Water spray (fog).

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical
Product is not flammable.

Hazardous combustion products Thermal decomposition during a fire can produce fumes and irritating gases. Hydrogen chloride. Organochlorine products. Carbon oxides. Nitrogen oxides (NOx).

Protective equipment and precautions for firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Wear protective clothing as described in Section 8 of this safety data sheet. Isolate hazard area and restrict access. Keep unnecessary personnel away.

Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up 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

Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Avoid contact with skin, eyes or clothing.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store in original containers separately from fertilizer, feed and foodstuffs. Avoid cross-contamination with other pesticides. Product can be damaged by freezing and should be kept in storage and transportation at 32°F or higher.

Incompatible Materials Acids. Oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

Appropriate engineering controls

Engineering Controls Eyewash stations. Showers. Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Wear protective eyewear (goggles, safety glasses, face shield).

Skin and Body Protection Wear long-sleeved shirt, long pants, shoes, socks and chemical resistant gloves (such as made out of any waterproof material).

Respiratory Protection Refer to 29 CFR 1910.134 for respiratory protection requirements.

General Hygiene Considerations Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid		
Appearance	Transparent dark amber liquid	**Odor**	Amine
Color	Dark amber	**Odor Threshold**	Not determined

Property	**Values**	**Remarks • Method**
pH	8-9	
Melting point / freezing point	Not determined	
Boiling point / boiling range	Not determined	
Flash point	Not determined	
Evaporation Rate	Not determined	
Flammability (Solid, Gas)	Not determined	
Flammability Limit in Air		
Upper flammability or explosive limits	Not determined	
Lower flammability or explosive limits	Not determined	
Vapor Pressure	Not determined	
Vapor Density	Not determined	
Relative Density	Not determined	
Water Solubility	Miscible in water	
Solubility in other solvents	Not determined	
Partition Coefficient	Not determined	
Autoignition temperature	Not determined	
Decomposition temperature	Not determined	
Kinematic viscosity	Not determined	
Dynamic Viscosity	5.30 cP @ 25°C; 3.34 cP @ 40°C	
Explosive Properties	Not determined	
Oxidizing Properties	Not determined	

10. STABILITY AND REACTIVITY

Reactivity
Not reactive under normal conditions.

Chemical stability
Stable under recommended storage conditions.

Possibility of hazardous reactions
None under normal processing.

Hazardous Polymerization Hazardous polymerization does not occur.

Conditions to Avoid
Excessive heat and fire.

Incompatible materials
Acids. Oxidizing agents.

Hazardous decomposition products
Hydrogen chloride. Organochlorine products. Carbon oxides. Nitrogen oxides (NOx).

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact Avoid contact with eyes.

Skin Contact May be harmful in contact with skin.

Inhalation Do not inhale.

Ingestion May be harmful if swallowed.

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Dimethylamine dicamba 2300-66-5	= 1267 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

Oral LD50 2,523.9044 mg/kg
Dermal LD50 3,988.00 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity
Harmful to aquatic life with long lasting effects.

Component Information
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 LC50): 1,000 mg/L
Bluegill (96-hr LC50): 1,000 mg/L
Daphnia (48-hr EC50): 1,600 mg/L
AVIAN TOXICITY: Mallard Duck (Oral LD50): > 2,510 mg/kg
Mallard Duck (Oral 8-day): > 4,533 ppm
Bobwhite Quail (Oral 8-day): > 4,533 ppm

Persistence/Degradability
Not determined.

Bioaccumulation
There is no data for this product.

Mobility
Not determined

Other Adverse Effects
Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes	PESTICIDE DISPOSAL - pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of federal law. If these wastes cannot be disposed of by use according to label instructions contact your state pesticide or environmental control agency, or the hazardous waste representative at the EPA regional office for guidance.
Contaminated Packaging	Nonrefillable container. Do not reuse or refill this container. Refer to the product label for specific container disposal instructions.

14. TRANSPORT INFORMATION

Note	Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances. Product can be damaged by freezing and should be kept in storage and transportation at 32°F or higher.

DOT

UN/ID No	UN3082
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s. (Dicamba)
Hazard class	9
Packing Group	III
Marine Pollutant	This material ships as a marine pollutant when inner package/single container is greater than 119 gallons/ 882 lbs.
Emergency Response Guide Number	171

IATA

UN number	UN3082
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s. (Dicamba)
Transport hazard class(es)	9
Packing Group	III
Marine Pollutant	This material ships as a marine pollutant when inner packagings exceed 5L/5KG

IMDG

UN number	UN3082
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s. (Dicamba)
Transport hazard class(es)	9
Packing Group	III
Marine Pollutant	This material ships as a marine pollutant when inner packagings exceed 5L/5KG

15. REGULATORY INFORMATION

International Inventories

Chemical name	TSCA	TSCA Inventory Status	DSL/NDSL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Dimethylamine dicamba				X	X				

Legend:

TSCA *- United States Toxic Substances Control Act Section 8(b) Inventory*

DSL/NDSL *- Canadian Domestic Substances List/Non-Domestic Substances List*

EINECS/ELINCS *- European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*

ENCS *- Japan Existing and New Chemical Substances*

IECSC *- China Inventory of Existing Chemical Substances*

KECL *- Korean Existing and Evaluated Chemical Substances*

PICCS *- Philippines Inventory of Chemicals and Chemical Substances*

AICS *- Australian Inventory of Chemical Substances*

US Federal Regulations

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	CAS No	Weight-%	SARA 313 - Threshold Values %
Dimethylamine dicamba - 2300-66-5	2300-66-5	50.2	1.0

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Dimethylamine dicamba 2300-66-5	X		

EPA Pesticide Registration Number EPA Reg. No. 66222-301

EPA Statement

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. Following is the hazard information as required on the pesticide label:

EPA Pesticide Label

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

Difference between SDS and EPA pesticide label

	EPA	OSHA
Signal Word	Warning	Warning
Serious eye damage/ irritation	Casues substantial but temporary eye injury	causes serious eye irritation
Acute oral toxicity	Harmful if swallowed	N/A
Acute dermal toxicity	Harmful if absorbed through the skin	N/A

16. OTHER INFORMATION

NFPA	**Health Hazards**	**Flammability**	**Instability**	**Special Hazards**
	2	1	0	Not determined
HMIS	**Health Hazards**	**Flammability**	**Physical hazards**	**Personal Protection**
	Not determined	Not determined	Not determined	Not determined

Issue Date: 16-Sep-2022
Revision Date: 18-Jan-2024
Revision Note: Regulatory update

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet