



Topeka Plus

Safety Data Sheet

US

Revision date: May 22, 2015

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Version: 1.0

SECTION 1: Product and Company Identification

1.1. Product identifier

Trade name : Topeka Plus
EPA Reg. No. : 83100-45-83979

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Use of the substance/preparation : Agricultural Herbicide

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Rotam North America, Inc.
4900 Koger Blvd., Suite #140
Greensboro, NC 27407
Phone: 1-(866) 927-6826 (toll free); 1-305-599-2221
msds@rotam.com

1.4. Emergency telephone number

Emergency number : (800)-424-9300 (CHEMTREC)
(800)-222-1222 (National Poison Information Center)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

| <u>Hazard Class</u> | <u>Category</u> | <u>Hazard Statement</u> |
|--------------------------|-----------------|-------------------------|
| Eye Corrosion/Irritation | 1 | H319 |
| Aquatic Acute | 1 | H400 |
| Aquatic Chronic | 1 | H410 |

Full text of H-phrases: see table in "Label elements" below

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

GHS Labeling Elements

Hazard pictograms

:



| | |
|--|---|
| Signal word | : DANGER |
| Hazard statements | : H318 - Causes serious eye damage H410 – Very toxic to aquatic life with long lasting effects |
| Precautionary statements (Prevention) | : P273 - Avoid release to the environment P280 - Wear protective clothing, protective gloves P391 - Collect spillage |
| Precautionary statements (Response) | : P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P310 - Immediately call a POISON CENTER |
| Precautionary statements (disposal) | : P501 – Dispose of contents/containers in accordance with local/regional/national/international regulations |

SECTION 3: Composition/information on ingredients

| Name | Product identifier | %/wt. |
|---|---------------------|-------|
| Dimethylamine Salt of Dicamba - 3,6-dichloro-o-anisic acid, compound with dimethylamine (1:1) | (CAS No.) 2300-66-5 | 12.4 |
| 2,4-D Dimethylamine salt | (CAS No) 2008-39-1 | 35.7 |
| Other Ingredients | NA | 51.9 |

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|-------------------------------|--|
| IF INHALED | : Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for 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 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 poison control center or doctor for treatment advice if irritation develops or persists. |
| IF SWALLOWED | : Call a 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 by a poison control center or doctor. Do not give anything to an unconscious person |
| First-aid measures – general | Have the product container or label with you when calling a poison control center or doctor, or going for treatment. See Label for Additional Precautions and Directions for Use. |

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Product is in an aqueous solution and is not flammable. If there is a fire in the area, cool containers with water to avoid overheating or rupture. For dried material, use foam, water spray, dry chemical or carbon dioxide.
- Unsuitable extinguishing media : High volume water jet. (Water contamination risk from runoff)

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Hazardous decomposition products may be released during prolonged heating like smoke, hydrogen chloride, organochlorine compounds, oxides of carbon, nitrogen oxides (NO_x).
- Explosion hazard : Product is not explosive.
- Reactivity : The product is stable at normal handling- and storage conditions.

5.3. Advice for firefighters

- Firefighting instructions : Prevent runoff from entering drains, sewers or waterways. 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 firefighting turnout gear (bunker gear): Any air respirator supplied with full face piece 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 face piece.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Wear appropriate personal protective equipment (PPE): Eye and face protection, coveralls, gloves, boots. Avoid misting conditions during cleanup. 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.

6.1.1. For non-emergency personnel

- Protective equipment : Wear appropriate personal protective equipment (PPE): Eye and face protection, coveralls, gloves, boots.
- Emergency procedures : Avoid contact with spilled material

6.1.2. For emergency responders

- Protective equipment : Wear appropriate personal protective equipment (PPE): Eye and face protection, coveralls, gloves, boots.

6.2. Environmental precautions

Prevent material from entering sewers, waterways, or low areas. Do not allow material to contaminate water systems.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Ventilate air. Cleanup personnel require protective clothing and respiratory protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove personal protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. Remove clothing/PPE immediately if material gets inside. Wash thoroughly and put on clean clothing.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in original container. Store in a cool, dry place. Keep separated from incompatible substances. Store in a cool and well-ventilated room. Keep out of the reach of children.

SECTION 8: Exposure controls/personal protection

8.1. Personal protective equipment

Eye/Face Protection: To avoid contact with eyes, wear chemical goggles or shielded safety glasses. An emergency eyewash or water supply should be readily accessible to the work area.

Skin Protection: To avoid contact with skin, wear long pants, long-sleeved shirt, socks, shoes and chemical-resistant gloves. An emergency shower or water supply should be readily accessible to the work area.

Respiratory Protection: Not normally required. If vapors or mists exceed acceptable levels, wear NIOSH approved air-purifying respirator with cartridges/canisters approved for use against pesticides.

General Hygiene Considerations: Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material: 1) do not store, use and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored; 2) wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics or using the toilet.

8.2. Exposure controls

Exposure limits have not been established for Dicamba or its salts.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Color : Yellow to pale amber
Odor : Slight amine odor
Odor threshold : No data available
pH (1%) : 7.2 (1% solution)

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|---|-------------------------------------|
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Melting point | : No data available |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : Not applicable – Aqueous solution |
| Self-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : Non- flammable |
| Vapor pressure | : No data available |
| Relative vapor density at 20 °C | : No data available |
| Relative density | : No data available |
| Density/bulk density | : 1.15 g/mL at 20 °C |
| Solubility | : Soluble in water |
| Log Pow | : No data available |
| Log Kow | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosive properties | : Not explosive |
| Oxidizing properties | : No oxidizing properties |
| Explosive limits | : Not applicable |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is stable at normal handling- and storage conditions.

10.2. Chemical stability

Stable under normal conditions. Resistant to hydrolysis under normal conditions; stable in acids & alkalis.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Protect from heat.

10.5. Incompatible materials

Oxidizers

10.6. Hazardous decomposition products

May produce gases such as hydrogen chloride, organochlorine products, and oxides of carbon and nitrogen under fire conditions.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| Dicamba DMA | |
|---------------------------|--------------|
| LD50 oral rat | > 5000 mg/kg |
| LD50 dermal rabbit | > 5000 mg/kg |
| LC50 inhalation rat (4 h) | 2.02 mg/L |

| 2,4-D Dimethylamine salt (2008-39-1) | |
|---|----------------------|
| LD50 oral rat | 949 mg/kg (EPA RED) |
| LD50 dermal rat | 1829 mg/kg (EPA RED) |
| LC50 inhalation rat (Dust/Mist - mg/l/4h) | > 3.5 mg/l/4h (ePM) |

| | |
|---------------------------|---|
| Irritation | : Skin – Slight irritant |
| Corrosivity | : Corrosive to eyes |
| Sensitization | : Based on available data, the classification criteria are not met. |
| Repeated dose toxicity | : Based on available data, the classification criteria are not met. |
| Carcinogenicity | : Based on available data, the classification criteria are not met. |
| Mutagenicity | : Based on available data, the classification criteria are not met. |
| Toxicity for reproduction | : Based on available data, the classification criteria are not met. |

SECTION 12: Ecological information

12.1. Toxicity

| Dicamba | |
|--|-----------------------------------|
| Fish (Bluegill and Rainbow Trout 96 hr.) | LC50: 135 mg/L |
| Daphnia (48 hr.) | EC50: 110 mg/L |
| Acute toxicity to Honey bee | Nontoxic to bees LD50 >100 µg/bee |
| Acute toxicity mallard ducks, 8 day | >10,000 mg/kg |
| Acute toxicity bobwhite Quail, 8 day | >10,000 mg/kg |

| 2,4-D Dimethylamine salt (2008-39-1) | |
|--------------------------------------|--|
| LC50 fish 1 | 100 mg/l (rainbow trout)(ePM) |
| ErC50 (algae) | 51.2 mg/l (Selenastrum capricornutum)(ePM) |
| EC50(Lemna gibba) | 0.58mg/L |

12.2. Persistence and degradability

Dicamba poorly binds to soil particles, is potentially mobile in the soil and highly soluble in water. Aerobic soil metabolism is the main degradative process for dicamba with a typical half-life of 2 weeks. Degradation is slower when low soil moisture limits microbe populations. In water, microbial degradation is the main route of dicamba dissipation.

12.3. Bioaccumulative potential

Aquatic hydrolysis, volatilization, adsorption to sediments, and bioconcentration are not expected to be significant.

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Pesticide disposal: Pesticide wastes are toxic. Wastes resulting from this product may be disposed of on site or at an approved waste disposal facility. Improper disposal of excess pesticide, spray mix, or rinsate is a violation of federal law. If these wastes cannot be disposed of according to label instructions, contact the state agency responsible for pesticide regulation or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Triple rinse pesticide from containers and use rinsates in the pesticide application. Wastes which cannot be used according to label instructions may be disposed of on site or at an approved waste disposal facility. Consult label for additional disposal information.

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

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

SECTION 14: Transport information

Not Regulated by US DOT or Canadian TDG for ground shipment

Ground transport

Not Regulated by US DOT

Not Regulated by Canadian TDG

Transport by sea (IMDG)

UN3082; ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Dicamba DMA salt, 2,4-D DMA salt); 9; III

Air transport (IATA)

UN3082; ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Dicamba DMA salt, 2,4-D DMA salt); 9; III

Additional Air, Sea and International Transportation Information

| | |
|----------------------|---|
| UN-No. | : 3082 |
| Proper Shipping Name | : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Dicamba DMA salt, 2,4-D DMA salt) |

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Transport document description : UN3082; ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Dicamba DMA salt, 2,4-D DMA salt); 9; III
Class (UN) : 9
Hazard labels (UN) : 9



Packing group (UN) : III
Marine Pollutant (Y/N) : Y
Dangerous for the environment :



SECTION 15: Regulatory information

FIFRA Information:

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:

Signal word : DANGER
Hazard statements : Corrosive. Causes irreversible eye damage. Harmful if swallowed.
Precautionary statements : Do not get in eye or on clothing.

SARA 313 Regulated Chemical(s): Not applicable

Title III hazard classification:

Acute Health Hazard: Yes
Chronic Health Hazard: No
Fire: No
Reactivity/Physical hazard: No
Pressure: No

CERCLA/DOT Reportable Quantities (RQ)

Dicamba – 1000 LBS

Canadian Regulatory Information:

This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all the information required by the CPR. WHMIS Classification: D2B – Toxic

SECTION 16: Other information

NFPA: Health: 2; Flammability: 0; Reactivity: 0; Specific:
HMIS: Health: 2; Flammability: 0; Physical Hazard: 0; PPE: E

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