



Safety Data Sheet

Report Date 27-Sep-16

Page 1 of 4

1. Identification

Product Name : OPTI-DGA
Synonyms : None
Product Use : Diglycolamine Salt of Dicamba Herbicide
Manufacturer/Supplier : Helena Chemical Company
Address : 225 Schilling Blvd. Collierville, TN 38017
General Information : 901-761-0050
Transportation Emergency Number : CHEMTREC:800-424-9300

2. Hazard Identification



Signal Word : Warning
Skin Irritation : Causes mild skin irritation
Eye Irritation : Causes serious eye irritation
Acute Toxicity Oral : LD50 (rat) >5,000 mg/kg (female rat)
Acute Toxicity Dermal : LD50 (rat) >5,000 mg/kg (rat)

Hazard Categories : Oral/Dermal/Inhalation Toxicity-5/5/5; Eye/Skin Irritation-2A/3; Skin Sensitization-1B

Hazard Statement : May be harmful if swallowed
May be harmful in contact with skin
May be harmful if inhaled
Causes mild skin irritation
Causes serious eye irritation

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Dicamba (Diglycolamine Salt of 3,6-dichloro-o-anisic acid)	104040-79-1	58.1
Other ingredients	Proprietary	41.9

4. First Aid Measures

Eye : Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice.

Skin : Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

Inhalation : Move person 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 further treatment advice.

Ingestion : Call a poison control center or doctor immediately for treatment advice. Rinse mouth with water. Do not induce vomiting. Do not give anything by mouth if unconscious.

Indication of Immediate Medical Attention and Special Treatment Needed : In the event of an adverse response, treatment should be directed toward control of the symptoms.

5. Fire Fighting Measures



Safety Data Sheet

Report Date 27-Sep-16

Page 2 of 4

- Extinguishing Media** : Foam or dry chemical extinguishing agents are preferred, but water spray may be used for small fires.
- Specific Hazards Arising from the Chemical** : Thermal decomposition may release toxic gases, such as hydrogen chloride.
- Special Fire Fight Proc** : Wear self-contained breathing apparatus and full protective clothing. Dike and collect water used to fight fire to prevent environmental damage due to run off.

6. Accidental Release Measures

- Personal Precautions** : Keep unprotected and unnecessary personnel out of spill area.
- Protective Equipment** : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Respiratory protection not normally needed. Eyewash and emergency shower should be available in work area.
- Emergency Procedures** : Dike to prevent spreading to soil, drains or waterways.
- Methods and Materials for Containment and Cleanup** : Absorb small spills on sand, vermiculite or other inert absorbent. Place contaminated material in suitable labeled container for disposal. Dike large spills using absorbent or impervious material such as clay or sand. Recover and contain as much free liquid as possible for reuse. Allow absorbed material to solidify, then scrape up for disposal.

7. Handling and Storage

- Precautions for Safe Handling** : Keep locked up and out of reach of children. Do not contaminate water, food or feed by storage, handling or disposal. Keep container tightly closed. Do not allow water to be introduced into the contents of the container.
- Conditions for Safe Storage** : Store in original container only. Do not store near heat or open flame. Do not store with oxidizing agents or ammonium nitrate.

8. Exposure Controls / Personal Protection

- TLV/PEL** : No TLV/PEL established.
- Appropriate Engineering Controls** : Local mechanical exhaust may be needed.
- Personal Protective Equipment** : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Respiratory protection not normally needed. Eyewash and emergency shower should be available in work area.

9. Physical and Chemical Properties

- Odor/Appearance** : Clear amber to dark amber liquid; moderate bitter
- Flash Point, °F** : Not determined
- Boiling Point, °F** : Not determined
- Melting Point(Freezing point), °C** : Not determined
- Vapor Pressure, mm Hg @ 20 °C** : Not determined
- Vapor Density** : Not determined
- Solubility in Water** : Soluble
- Molecular Formula** : Not applicable, formulated mixture.
- Density, g/mL @ 25 °C** : 1.225
- Evaporation Rate(Butyl Acetate = 1)** : Not determined
- Octanol/Water Partition Coefficient** : Not determined
- pH** : 5.5-6.5 (pure)



Safety Data Sheet

Report Date 27-Sep-16

Page 3 of 4

Flammable Limits (approximate volume % in air) : Not determined
Auto-ignition Temperature : Not determined
Decomposition temperature : Not determined

10. Stability and Reactivity

Reactivity : Not chemically reactive.
Chemical Stability : Stable
Hazardous Decomposition Products : Thermal decomposition may release toxic gases, such as hydrogen chloride.
Hazardous Polymerization : Will not occur
Conditions to Avoid : Avoid high temperatures.
Incompatible Materials : Avoid oxidizing agents and acids.

11. Toxicological Information

Acute Toxicity (Oral LD50) : 5,000 mg/kg (female rat). May be harmful if swallowed.
Acute Toxicity (Dermal LD50) : >5,000 mg/kg (rat). May be harmful in contact with skin.
Acute Toxicity Inhalation LC50 : >2.08 mg/L/4 hours (rat). May be harmful if inhaled.
Likely Routes of Exposure : Eyes, skin, ingestion
Skin Irritation : Causes mild skin irritation.
Eye Irritation : Causes serious eye irritation.
Skin Sensitization : Product is a skin sensitizer.
Carcinogenic : In long term studies in rats and mice was given by feed, no carcinogenic effect observed.
Chronic Effects : No effects listed.
Other Hazards : None currently known.

12. Ecological Information

Ecotoxicity : Not listed as a Marine Pollutant per 49 CFR 172.101, Appendix B.
Persistence and Degradability : No information found
Bioaccumulative Potential : No information found
Mobility in Soil : No information found
Other Adverse Effects : No information found

13. Disposal Considerations

Waste Disposal Method : This material must be disposed of according to Federal, State or Local procedures under the Resource Conservation and Recovery Act.

14. Transport Information

UN Proper Shipping Name : Not regulated by DOT in single containers <246 gallons.
Transport Hazard Class : None
UN Identification Number : None
Packaging Group : None
Environmental Hazards : Dicamba, Reportable Quantity = 1,000 lbs (246 gallons). Not a marine pollutant per 49 CFR 172.101, Appendix B.



Safety Data Sheet

Report Date **27-Sep-16**

Page 4 of 4

- Transport in Bulk** : If shipped in single package \geq 246 gallons, ship as RQ, UN3082, Environmentally Hazardous Substance, Liquid, n.o.s., (Dicamba Acid), 9, PG III "ERG # 171"
- Special Precautions for Transportation** : Not regulated for shipment by air (IATA) or water (IMDG).
- Freight Classification** : Pesticides, NOI, Herbicides, Other than Poison (NMFC Item 155050, Sub 11, Class 70)

15. Regulatory Information

National Fire Protection Association Rating :

Health: 2 Fire: 0 Reactivity: 0
Rating Level: (4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

S.A.R.A Title III Hazard Classification (Yes/No) :

Immediate(Acute) Health: Y
Delayed (Chronic) Health: Y
Sudden Release of Pressure: N
Fire: N
Reactive: N

FIFRA Information : This Chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labelling 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 Registration Number : 5905-597

FIFRA Signal Word : Caution

FIFRA Label Statement : Keep out of reach of children.

FIFRA Label Statement : Causes moderate eye irritation.

FIFRA Label Statement : Avoid contact with eyes or clothing.

FIFRA Label Statement : Wear protective eyewear (goggles, face shield, or safety glasses).

FIFRA Label Statement : Wash thoroughly with soap and water after handling and before

FIFRA Label Statement : eating, drinking, chewing gum, using tobacco or using the toilet.

FIFRA Label Statement : No additional label statements.

16. Other Information

Data of Preparation/Revision : 27-September-2016