



Safety Data Sheet

Report Date 24-Nov-15

Page 1 of 4

1. Identification

Product Name : VISION HERBICIDE
Synonyms : None
Product Use : Dicamba acid
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 : Danger
Skin Irritation : Slightly irritating
Eye Irritation : Extremely irritating with irreversible damage (mean score=62.7)
Acute Toxicity Oral : LD50 3,752 mg/kg
Acute Toxicity Dermal : LD50 >2,000 mg/kg

Hazard Categories : Oral/Dermal/Inhalation Toxicity-5/5/5; Eye/Skin Irritation-1/3; Combustible-4; Skin Sensitizer-1

Hazard Statement : May be harmful if swallowed
May be harmful in contact with skin
Causes serious eye damage
Causes mild skin irritation
May be harmful if inhaled
May cause an allergic skin reaction
Combustible liquid

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Dicamba acid	1918-00-9	40.00
Blend of nonhazardous formulation aids.	Proprietary	60.00

4. First Aid Measures

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

Skin : 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.

Inhalation : Move person to fresh air. If 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. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or physician. Do not give anything by mouth to an unconscious person.

Indication of Immediate Medical Attention and Special Treatment Needed : Probable mucosal damage may contraindicate the use of gastric lavage. In the event of an adverse response, treatment should be directed toward control of the symptoms.



Safety Data Sheet

Report Date 24-Nov-15

Page 2 of 4

5. Fire Fighting Measures

- Extinguishing Media** : Use alcohol-resistant foam, dry chemical, carbon dioxide or water spray. Foam or dry chemical systems are preferred.
- Specific Hazards Arising from the Chemical** : Combustible liquid - can burn in fire, releasing toxic and irritating gases due to thermal decomposition or combustion.
- Special Fire Fight Proc** : Wear self-contained breathing apparatus and full protective equipment. Dike and collect water used to fight fire to prevent environmental damage from runoff.

6. Accidental Release Measures

- Personal Precautions** : Isolate spill area. 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** : Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. Clean up spills immediately.
- Methods and Materials for Containment and Cleanup** : Absorb small spills on sand, vermiculite or other inert absorbent. Place contaminated material in appropriate container for proper disposal.

7. Handling and Storage

- Precautions for Safe Handling** : Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Do not swallow. Avoid breathing vapors. Use with adequate ventilation. Keep away from heat, sparks and flame. Do not contaminate water, food or feed by storage, handling or disposal. This product may not be mixed, loaded or used within 50 feet of all wells including abandoned wells, drainage wells or sinkholes.
- Conditions for Safe Storage** : Store in a cool, dry place designated for pesticides and away from heat sources. Keep in original containers and keep containers tightly closed when not in use. Do not store in excessive heat. Do not store near children, food, foodstuffs, drugs or potable water supplies. Groundwater contamination may be reduced by diking and flooring of permanent liquid bulk storage sites with an impermeable material. Avoid cross-contamination with other pesticides.

8. Exposure Controls / Personal Protection

- TLV/PEL** : Dicamba: TLV=5 mg/m³.
- Appropriate Engineering Controls** : Local mechanical exhaust may be required.
- 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 pale yellow to amber liquid.
- Flash Point, °F** : 170 Degrees F.
- Boiling Point, °F** : No information found
- Melting Point(Freezing point), °C** : Not applicable
- Vapor Pressure, mm Hg @ 20 °C** : No information found
- Vapor Density** : No information found
- Solubility in Water** : Emulsifiable



Safety Data Sheet

Report Date 24-Nov-15

Page 3 of 4

Molecular Formula : Not applicable, formulated mixture.
Density, g/mL @ 25 °C : 1.120-1.140
Evaporation Rate(Butyl Acetate = 1) : No information found
Octanol/Water Partition Coefficient : No information found
pH : 2.0 to 3.0 (1%)
Flammable Limits (approximate volume % in air) : No information found
Auto-ignition Temperature : Not determined
Decomposition temperature : No information found

10. Stability and Reactivity

Reactivity : No information found
Chemical Stability : Stable
Hazardous Decomposition Products : May produce hydrogen chloride, oxides of nitrogen and carbon monoxide under fire conditions.
Hazardous Polymerization : Will not occur
Conditions to Avoid : May decompose if heated. Avoid temperatures above 105 Degrees F. and below 28 Degrees F.
Incompatible Materials : Acidic and oxidizing materials.

11. Toxicological Information

Acute Toxicity (Oral LD50) : 3,752 mg/kg. May be harmful if swallowed.
Acute Toxicity (Dermal LD50) : >2,000 mg/kg. May be harmful in contact with skin.
Acute Toxicity Inhalation LC50 : >2.07 mg/L (male and female rats). May be harmful if inhaled.
Likely Routes of Exposure : Eye, skin, ingestion, inhalation.
Skin Irritation : Causes mild skin irritation.
Eye Irritation : Causes serious eye damage. Extremely irritating with irreversible damage (mean score=62.7).
Skin Sensitization : Contact sensitizer (Guinea pig). May cause an allergic skin reaction.
Carcinogenic : Not listed by IARC, NTP or OSHA.
Chronic Effects : None currently known.
Other Hazards : No evidence of mutagenic, reproductive or teratogenic effects during laboratory studies.

12. Ecological Information

Ecotoxicity : No information found
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.



Safety Data Sheet

Report Date 24-Nov-15

Page 4 of 4

14. Transport Information

UN Proper Shipping Name : Not regulated by DOT in non-bulk containers (<119 gallons).
Transport Hazard Class : None
UN Identification Number : None
Packaging Group : None
Environmental Hazards : Reportable Quantity (RQ), Dicamba Acid=1,000 lbs/263 gallons (finished product).
Transport in Bulk : If shipped in single package >119 gallons and <263 gallons, ship as: NA1993, Combustible Liquid, n.o.s. (Methylated fatty acids), PG III "ERG # 128"
Special Precautions for Transportation : If shipped in single package >= 263 gallons, ship as: RQ, NA1993, Combustible Liquid, n.o.s. (Methylated fatty acids), PG III "ERG # 128"
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: 2 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: N
Sudden Release of Pressure: N
Fire: Y
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 : 5905-576
FIFRA Signal Word : Danger
FIFRA Label Statement : Corrosive. Causes irreversible eye damage.
FIFRA Label Statement : Harmful if swallowed, inhaled, or absorbed through skin.
FIFRA Label Statement : Do not get in eyes or on clothing.
FIFRA Label Statement : Avoid contact with skin.
FIFRA Label Statement : Avoid breathing spray mist.
FIFRA Label Statement : Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.
FIFRA Label Statement : No additional label statements.

16. Other Information

Data of Preparation/Revision : 24-November-2015