



Safety Data Sheet

Report Date 29-Dec-17

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1. Identification

Product Name : LATIGO
Synonyms : None
Product Use : 2,4-D Acid and 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 : Danger
Skin Irritation : Slightly irritating
Eye Irritation : Severely irritating with irreversible damage. Mean score was 62.7.
Acute Toxicity Oral : LD50 2,163 mg/kg
Acute Toxicity Dermal : LD50 >2,000 mg/kg

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

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

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Dicamba: 3,6-dichloromethoxybenzoic acid	1918-00-9	18.28
2,4-D Acid: 2,4-dichlorophenoxyacetic acid	94-75-7	24.62
Blend of surfactants, emulsifiers and water.	Proprietary	57.10

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. 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 doctor. Do not give anything by mouth if unconscious.

Indication of Immediate Medical Attention and Special Treatment Needed : There is no specific antidote. All treatments should be directed toward control of the symptoms and the clinical condition of the patient. Probable mucosal damage may contraindicate the use of gastric lavage.



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5. Fire Fighting Measures

- Extinguishing Media** : Use foam, water spray, dry chemical or carbon dioxide extinguishing agents.
Specific Hazards Arising from the Chemical : Under fire conditions, toxic and corrosive fumes may be emitted.
Special Fire Fight Proc : Wear self-contained breathing apparatus and full protective clothing. Contain and dispose of fire fighting water.

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 : Do not allow spilled product or cleanup materials to enter sewers, waterways, lakes, streams or ponds.
Methods and Materials for Containment and Cleanup : Contain spill using absorbent or impervious materials such as earth, sand or clay. Collect and place in plastic recovery drums for proper disposal.

7. Handling and Storage

- Precautions for Safe Handling** : Do not contaminate water, food, or feed by storage, handling or disposal.
Conditions for Safe Storage : Do not store under conditions that might adversely affect the container or its ability to function properly. Do not store at temperatures below 32 Degrees F or above 100 Degrees F. Store in original container in a well-ventilated area, separately from fertilizer, feed and foodstuffs. Keep container tightly closed when not in use. Reduce stacking height where local conditions can affect package strength.

8. Exposure Controls / Personal Protection

- TLV/PEL** : 2,4-D: TLV=10 mg/m³; PEL=10 mg/m³; Dicamba: TLV=not established, PEL=not established
Appropriate Engineering Controls : Local exhaust sufficient.
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 yellow to amber liquid with phenoxy odor.
Flash Point, °F : >200 Degrees F.
Boiling Point, °F : >212 Degrees F.
Melting Point(Freezing point), °C : <32 Degrees F.
Vapor Pressure, mm Hg @ 20 °C : No information found
Vapor Density : No information found
Solubility in Water : Emulsifiable
Molecular Formula : Not applicable, formulated mixture.
Density, g/mL @ 25 °C : 1.170-1.210 (at 70 Degrees F.)
Evaporation Rate(Butyl Acetate = 1) : No information found



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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 : Hydrogen chloride and oxides of carbon may be produced under fire conditions.
Hazardous Polymerization : Will not occur
Conditions to Avoid : Avoid extreme heat, open flames, sparks or static electricity.
Incompatible Materials : Strong oxidizing agents.

11. Toxicological Information

Acute Toxicity (Oral LD50) : 2,163 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. Harmful if inhaled.
Likely Routes of Exposure : Eyes, inhalation, skin, ingestion
Skin Irritation : Slightly irritating. Causes mild skin irritation.
Eye Irritation : Severely irritating with irreversible damage (mean score was 62.7). Causes serious eye damage.
Skin Sensitization : Not a contact sensitizer.
Carcinogenic : Not currently listed by OSHA. IARC: 2,4-D is classified Group 2B, possibly carcinogenic to humans.
Chronic Effects : No information found
Other Hazards : Various animal cancer tests have shown no reliably positive association between 2,4-D exposure and cancer.

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. (D016 for 2,4-D)

14. Transport Information

UN Proper Shipping Name : Not regulated by DOT in containers with capacity \leq 41 gallons.



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Transport Hazard Class : None
UN Identification Number : None
Packaging Group : None
Environmental Hazards : Not listed on Appendix B to 49 CFR 172.101. May be Marine Pollutant under IMDG/IATA.
Transport in Bulk : If shipped in single package \geq 41 gallons, ship as: RQ, UN3082, Environmentally Hazardous Substance, Liquid, n.o.s., (2,4-D), 9, PG III "ERG # 171" If shipped in single package $>$ 555 gallons, RQ for Dicamba is also met.
Special Precautions for Transportation : Reportable Quantity (RQ): 2,4-D=100 lbs/ \geq 41 gallons; Dicamba=1,000 lbs/ $>$ 555 gallons.
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: Y
Sudden Release of N
Pressure:
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 : 5905-564

FIFRA Signal Word : Danger

FIFRA Label Statement : Keep out of reach of children.

FIFRA Label Statement : Corrosive. Causes irreversible eye damage.

FIFRA Label Statement : Harmful if swallowed.

FIFRA Label Statement : Harmful if absorbed through skin.

FIFRA Label Statement : Do not get in eyes or on clothing.

FIFRA Label Statement : Avoid contact with skin.

FIFRA Label Statement : Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

16. Other Information

Data of Preparation/Revision : 29-December-2017