



# Safety Data Sheet

Report Date 03-May-15

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## 1. Identification

**Product Name** : BRUSH-RHAP, HELENA  
**Synonyms** : None  
**Product Use** : Wide-spectrum Broadleaf 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** : Causes mild skin irritation.  
**Eye Irritation** : Causes serious eye damage.  
**Acute Toxicity Oral** : May be harmful if swallowed.  
**Acute Toxicity Dermal** : May be harmful in contact with skin.

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

**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

## 3. Composition / Information on Ingredients

Component	CAS Number	Weight %
3,6-dichlormethoxybenzoic acid (Dicamba)	1918-00-9	18.28
2,4-Dichlorophenoxyacetic Acid (2,4-D)	94-75-7	24.62
Inert ingredients, including a proprietary blend of surfactants, emulsifiers and water.		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. Treat symptomatically. 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 and carbon dioxide extinguishing agents.
- Specific Hazards Arising from the Chemical** : Under fire conditions, toxic and corrosive fumes are emitted.
- Special Fire Fight Proc** : Wear self-contained breathing apparatus and full protective clothing. Contain and dispose of fire fighting waters.

### 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. Use NIOSH-approved respiratory protection based on actual or potential concentrations. Emergency shower and eyewash 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, clay or sand. Collect and place in plastic recovery drums for proper disposal.

### 7. Handling and Storage

- Precautions for Safe Handling** : Keep out of reach of children. Do not contaminate water, food or feed by storage, handling or disposal. Keep container tightly closed when not in use.
- 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. Reduce stacking height where local conditions can affect package strength.

### 8. Exposure Controls / Personal Protection

- TLV/PEL** : 2,4-D TLV = 10 mg/m<sup>3</sup>; Dicamba TLV = not established
- Appropriate Engineering Controls** : Local (mechanical) exhaust normally sufficient.
- Personal Protective Equipment** : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Use NIOSH-approved respiratory protection based on actual or potential concentrations. Emergency shower and eyewash should be available in work area.

### 9. Physical and Chemical Properties

- Odor/Appearance** : Clear yellow to amber liquid; phenoxy odor.
- Flash Point, °F** : Not determined
- Boiling Point, °F** : >212 Degrees F.
- Melting Point(Freezing point), °C** : No information found
- Vapor Pressure, mm Hg @ 20 °C** : Not determined
- Vapor Density** : Not determined
- Solubility in Water** : Emulsifiable
- Molecular Formula** : Not applicable, formulated mixture.
- Density, g/mL @ 25 °C** : 1.170-1.200
- Evaporation Rate(Butyl Acetate = 1)** : Not determined



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**Octanol/Water Partition Coefficient** : No information found  
**pH** : 2.0 to 3.0 (1%)  
**Flammable Limits (approximate volume % in air)** : Not determined  
**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** : Avoid contact with strong oxidizing agents.

### 11. Toxicological Information

**Acute Toxicity (Oral LD50)** : No LD50 available. May be harmful if swallowed.  
**Acute Toxicity (Dermal LD50)** : No LD50 available. May be harmful if ingested.  
**Acute Toxicity Inhalation LC50** : No LC50 available. May be harmful if inhaled.  
**Likely Routes of Exposure** : Eyes, skin, inhalation, ingestion.  
**Skin Irritation** : Causes mild skin irritation.  
**Eye Irritation** : Causes serious eye damage.  
**Skin Sensitization** : No information found.  
**Carcinogenic** : Not listed.  
**Chronic Effects** : Prolonged contact can cause liver, kidney and muscle damage.  
**Other Hazards** : None currently known.

### 12. Ecological Information

**Ecotoxicity** : Marine Pollutant (2,4-D acid)  
**Persistence and Degradability** : No information found  
**Bioaccumulative Potential** : No information found  
**Mobility in Soil** : No information found  
**Other Adverse Effects** : Reportable quantity: 2,4-D acid (100 lbs/41.67 gallons); Dicamba (1,000 lbs/555.55 gallons)

### 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 containers <41.67 gallons. Regulated in any size package for shipments by air (IATA) or water (IMDG).  
**Transport Hazard Class** : None  
**UN Identification Number** : None



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**Packaging Group** : None  
**Environmental Hazards** : Marine Pollutant (2,4-D).  
**Transport in Bulk** : If shipped by ground (DOT) in single package >41.67 gallons, ship as RQ, UN3082, Environmentally Hazardous Substance, Liquid, n.o.s., (2,4-D Acid), 9, PG III "ERG # 171"  
**Special Precautions for Transportation** : If shipped in any size package by air (IATA) or water (IMDG), ship as: UN3082, Environmentally Hazardous Substance, Liquid, n.o.s., (2,4-D acid), 9, PG III, Marine Pollutant  
**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 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** : 5905-568

**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, eyes or clothing.

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

### 16. Other Information

**Data of Preparation/Revision** : 03-May-2015