

Report Date 03-May-15

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1. Identification

Product Name : BARRAGE HF

Synonyms: None

Product Use : Low Volatile 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. Prolonged or repeated skin contact may cause

skin irritation.

Eye Irritation: Causes serious eye irritation.

Acute Toxicity Oral: May be harmful if swallowed. Single dose oral toxicity is low.

Acute Toxicity Dermal : Harmful in contact with skin.

Hazard Categories: Oral/Dermal/Inhalation Toxicity - 5/4/5; Eye Irritation - 2A; Skin Irritation -

3

Hazard Statement: May be harmful if swallowed

Harmful in contact with skin Causes serious eye irritation Causes mild skin irritation May be harmful if inhaled

3. Composition / Information on Ingredients

ComponentCAS NumberWeight %2-Ethylhexyl Ester of 2,4-D Acid1928-43-478.1Inert ingredientsProprietary21.9

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.

care.

Indication of Immediate Medical

I: There is no specific antidote. Treat symptomatically and provide supportive

Attention and Special Treatment

Needed



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Extinguishing Media: Use dry chemicals or carbon dioxide. Use water or foam should be

discouraged to prevent spreading of material.

Specific Hazards Arising from the : May liberate hydrogen chloride, an acidic gas, when burned.

Chemical

Special Fire Fight Proc : Wear self-contained breathing apparatus and full protective clothing.

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 respirator if TLV is exceeded. Eyewash and

emergency shower should be available in work area.

Emergency Procedures : Do not contaminate water supplies, lakes, streams, ponds or drains. Contain

spills to prevent spreading.

Methods and Materials for :

Remove as much material as possible. Cover spilled material with inert **Containment and Cleanup**

absorbent. Scoop or shovel up then transfer to recovery drums for proper

disposal. Do not use vacuum to recover.

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. Reduce stacking height where local conditions can affect package strength.

Conditions for Safe Storage : Store in original container only. Do not store under conditions which might

adversely affect the container or its ability to function properly. This product can be stored in an unheated building. Do not store at temperatures below 0

Degrees F. If frozen, warm to 40 Degrees F. and redissolve before using by

rolling or shaking container.

Exposure Controls / Personal Protection

TLV/PEL: 2,4-D TLV = 10 mg/m3.

Appropriate Engineering Controls: Good general ventilation is sufficient.

Personal Protective Equipment : Splashproof goggles or face shield, impervious gloves, impervious apron and

footwear. Use NIOSH-approved respirator if TLV is exceeded. Eyewash and

emergency shower should be available in work area.

Physical and Chemical Properties

Odor/Appearance: Light brown liquid with phenoxy odor.

Flash Point, °F : >200 Degrees F. Boiling Point, °F : >300 Degrees F. Melting Point(Freezing point), °C : Not specified

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 : 1.085-1.105 Evaporation Rate(Butyl Acetate = : Not determined

Octanol/Water Partition : No information found

Coefficient



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pH: 3.2-4.2 (1%)

Flammable Limits (approximate : No information found

volume % in air)

Auto-ignition Temperature: 850 Degrees F. **Decomposition temperature**: No information found

10. Stability and Reactivity

Reactivity: No information found

Chemical Stability: Stable

Hazardous Decomposition : May produce hydrogen chloride under fire conditions.

Products

Hazardous Polymerization: Will not occur

Conditions to Avoid : None currently known Incompatible Materials : None currently known

11. Toxicological Information

Acute Toxicity (Oral LD50) : 1,492 mg/kg. May cause gastrointestinal irritation or ulceration.

Acute Toxicity (Dermal LD50) : 2,871 mg/kg. Single prolonged skin exposure may result in absorption in harmful

amounts.

Acute Toxicity Inhalation LC50 : No LC50 available. Single exposure to vapors is not likely to be hazardous.

Likely Routes of Exposure : Eyes, skin, inhalation, ingestion

Skin Irritation: Prolonged or repeated skin contact may cause skin irritation.

Eye Irritation: Causes serious eye irritation.

Skin Sensitization: No information found.

Carcinogenic: Did not cause cancer in animal studies.

Chronic Effects: Excessive exposure may cause liver, kidney, gastrointestinal and muscular

effects.

Other Hazards: No information found on reproductive, developmental or neurological toxicity.

12. Ecological Information

Ecotoxicity: 2,4-D is moderately toxic to practically non-toxic to birds. Slightly toxic to

moderately toxic to fish and aquatic life.

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 packages <21 gallons.

Transport Hazard Class : None (<21 gallons)
UN Identification Number : None (<21 gallons)
Packaging Group : None (<21 gallons)



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Environmental Hazards : No information found Transport in Bulk : No information found

Special Precautions for : If shipped in singled package >21 gallons, ship as: RQ, UN3082,

Transportation Environmentally Hazardous Substance, Liquid, n.o.s., (2,4-D Ester), 9, PG III

"ERG # 171"

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: 1 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: 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: 5905-529 **FIFRA Signal Word**: Caution

FIFRA Label Statement : Keep out of reach of children.
FIFRA Label Statement : Harmful if absorbed through skin.
FIFRA Label Statement : Causes moderate eye irritation.

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

FIFRA Label Statement : No additional label statements.
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16. Other Information

Data of Preparation/Revision: 03-May-2015