

Report 03-Jul-23 Date

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1. Identification

Product Name : BARRAGE EVO

Synonyms: None

Product Use: 2-Ethylhexyl Ester of 2,4-D Herbicide

Manufacturer/Supplier: Helena Agri-Enterprises, LLC

Address: 225 Schilling Blvd. Collierville, TN 38017

General Information: 901-761-0050

Transportation Emergency Number: CHEMTREC:800-424-9300

Hazard Identification



Signal Word: Warning

Skin Irritation: Causes mild skin irritation. **Eye Irritation**: Causes serious eye irritation. Acute Toxicity Oral : LD50=896 mg/kg (rats) Acute Toxicity Dermal : LD50>2,000 mg/kg (rabbits)

Hazard Categories: Oral/Dermal/Inhalation Toxicity-4/5/5; Eye/Skin Irritation-2A/3; Skin

Sensitizer-1A

Hazard Statement: Harmful if swallowed

May be harmful in contact with skin

May be harmful if inhaled Causes serious eve irritation Causes mild skin irritation

May cause an allergic skin reaction

Composition / Information on Ingredients

Component **CAS Number** Weight % 2-Ethylhexyl Ester of 2,4-D Acid 25168-26-7 78.10 Proprietary ingredients **Proprietary** 21.90

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**

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

care.

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 emit carbon monoxide, carbon dioxide and hydrogen chloride under fire

Chemical conditions.

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

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 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.

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. 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.

8. 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.

9. Physical and Chemical Properties

Odor/Appearance: Clear to slight hazy, light amber liquid.

Flash Point, °F : >200 Degrees F.

Boiling Point, ⁰F : No information on mixture Melting Point(Freezing point), ⁰C : No information on mixture Vapor Pressure, mm Hg @ 20 ⁰C : No information on mixture

Vapor Density : No information on mixture Solubility in Water : Emulsifiable

Molecular Formula: Not applicable, formulated mixture.

Density, g/mL @ 25 °C : 1.124

Evaporation Rate(Butyl Acetate = : No information on mixture

1)

Octanol/Water Partition : No information on mixture

Coefficient



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pH: 6.6 (1%)

Flammable Limits (approximate : No information on mixture

volume % in air)

Auto-ignition Temperature : No information on mixture **Decomposition temperature** : No information on mixture

10. Stability and Reactivity

Reactivity : Not reactive

Chemical Stability: Stable

Hazardous Decomposition : Decomposition products can include, and are not limited to: carbon monoxide,

Products carbon dioxide, and hydrogen chloride.

Hazardous Polymerization: Will not occur

Conditions to Avoid: Exposure to elevated temperatures can cause product to decompose.

Generation of gas during decomposition can cause pressure to build up in

closed systems. Pressure buildup can be rapid.

Incompatible Materials: Avoid contact with acids, bases and oxidizers.

11. Toxicological Information

Acute Toxicity (Oral LD50): 896 mg/kg (rats). Harmful if swallowed.

Acute Toxicity (Dermal LD50) : >2,000 mg/kg (rabbits). May be harmful in contact with skin.

Acute Toxicity Inhalation LC50 : No LC50 data available. May be harmful if inhaled.

Likely Routes of Exposure: Eye, ingestion, skin, inhalation.

Skin Irritation: Causes mild skin irriation.

Eye Irritation: Causes serious eye irritation.

Skin Sensitization: May cause an allergic skin reaction. Caused allergic skin reactions when tested

in guinea pigs.

Carcinogenic: Did not cause cancer in laboratory animals.

Chronic Effects: Based on available data, repeated exposures are not anticipated to cause

additional significant adverse effects.

Other Hazards : No information found on neurotoxicity or reproductive toxicity. In vitro genetic

toxicity studies were negative. The technical material has been toxic to the fetus in laboratory animals but there is no evidence these findings are relevant to

humans.

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. (D016 TCLP

2,4-D and/or U240 for 2,4-D)

14. Transport Information



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UN Proper Shipping Name: Not regulated by DOT in single packages <13.25 gallons.

Transport Hazard Class : None (<13.25 gal)
UN Identification Number : None (<13.25 gal)
Packaging Group : None (<13.25 gal)
Environmental Hazards : No information found

Transport in Bulk : If shipped in singled package >13.25 gallons, ship as: RQ, UN3082,

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

"ERG # 171"

Special Precautions for : May be classified if shipped by air (IATA) or water (IMDG) as: UN3082,

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

Marine Pollutant

Freight Classification: Pesticides, NOI, Herbicides, Other than Poison (NMFC Item 155050, Sub 11,

Class 60)

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: 5905-645 **FIFRA Signal Word**: Danger

FIFRA Label Statement : Keep out of reach of children.

FIFRA Label Statement : Corrosive. Causes irreversible eye damage. Harmful if swallowed.

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

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

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 : Remove and wash contaminated clothing before reuse.

16. Other Information

Data of Preparation/Revision: 03-July-2023