



Safety Data Sheet

Report Date 25-Jan-17

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1. Identification

Product Name : WEED RHAP LV-4
Synonyms : 2-Ethylhexyl ester of 2,4-D
Product Use : 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 : May be harmful in contact with skin
Eye Irritation : Causes serious eye irritation
Acute Toxicity Oral : LD50 (rat) = 896 mg/kg for main component
Acute Toxicity Dermal : LD50 (rabbit) > 2,000 mg/kg for main component
Hazard Categories : Oral/Dermal/Inhalation Tox-4/5/5; Eye/Skin Irr-2A/3; Skin Sensitizer-1; Carcinogen-2; Aspiration-1
Hazard Statement : Harmful if swallowed
May be harmful in contact with skin
Causes serious eye irritation
Causes mild skin irritation
May be harmful if inhaled
May cause an allergic skin reaction
Suspected of causing cancer
May be fatal if swallowed and enters airways

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
2,4-Dichlorophenoxyacetic acid, 2-Ethylhexyl Ester	1928-43-4	65.9
Distillates (petroleum), hydrotreated light	Proprietary	25.9
Other ingredients	Proprietary	8.2



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4. First Aid Measures

- Eye** : Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing 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 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** : Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.
- Indication of Immediate Medical Attention and Special Treatment Needed** : May cause chemical pneumonitis if aspirated. If lavage is performed, suggest endotracheal and/or esophagosopic control. Treat symptomatically.

5. Fire Fighting Measures

- Extinguishing Media** : Use water spray or foam. Foam or dry chemical extinguishing systems are preferred to prevent environmental damage from excessive water runoff.
- Specific Hazards Arising from the Chemical** : Hydrogen chloride, oxides of nitrogen
- Special Fire Fight Proc** : Wear self-contained breathing apparatus and full protective clothing. Dike and collect water used to fight fire to prevent environmental damage due to run off.

6. Accidental Release Measures

- Personal Precautions** : Isolate hazard area. Keep unnecessary and unprotected personnel from entering the 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** : Clean up spills immediately. Minimize use of water when decontaminating area to prevent environmental contamination.
- Methods and Materials for Containment and Cleanup** : Absorb small spills using sand, vermiculite or other absorbent. Collect and place contaminated material in an appropriate container for disposal. For large spills, dike using absorbent or impervious material such as clay or sand. Recover and contain as much free liquid as possible for reuse. Allow absorbed material to solidify, then scrape up for disposal.

7. Handling and Storage

- Precautions for Safe Handling** : Use only in well-ventilated area. Do not reuse containers. Wear proper safety equipment when mixing, loading or otherwise handling this product.
- Conditions for Safe Storage** : Keep container closed when not in use. Keep away from food, feed and drinking water. Store away from heat.



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8. Exposure Controls / Personal Protection

TLV/PEL : 2-Ethylhexyl ester of 2,4-Dichlorophenoxyacetic Acid: PEL=10 ppm; TLV=10 ppm.

Appropriate Engineering Controls : Local mechanical exhaust ventilation 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 yellow to amber liquid; mild odor.

Flash Point, °F : >200 Degrees F.

Boiling Point, °F : No information for mixture

Melting Point(Freezing point), °C : No information for mixture

Vapor Pressure, mm Hg @ 20 °C : No information for mixture

Vapor Density : No information for mixture

Solubility in Water : Emulsifiable

Molecular Formula : Not applicable, formulated mixture.

Density, g/mL @ 25 °C : 1.021-1.041

Evaporation Rate(Butyl Acetate = 1) : No information for mixture

Octanol/Water Partition Coefficient : No information for mixture

pH : 3.0-5.0 (1%)

Flammable Limits (approximate volume % in air) : No information for mixture

Auto-ignition Temperature : No information found

Decomposition temperature : No information for mixture

10. Stability and Reactivity

Reactivity : Not reactive

Chemical Stability : Stable

Hazardous Decomposition Products : Can include and are not limited to: carbon monoxide, carbon dioxide, hydrogen chloride.

Hazardous Polymerization : Will not occur

Conditions to Avoid : Avoid extreme heat and open flame. Exposure to elevated temperatures can cause product to decompose. Generation of gas during decomposition can cause pressure in closed systems. Pressure buildup can be rapid.

Incompatible Materials : Strong acids, strong bases, strong oxidizers.



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11. Toxicological Information

- Acute Toxicity (Oral LD50)** : 896 mg/kg (rat) for main component. Harmful if swallowed.
- Acute Toxicity (Dermal LD50)** : >2,000 mg/kg (rabbit) for main component. May be harmful in contact with skin.
- Acute Toxicity Inhalation LC50** : >5.39 mg/L/4 hour, dust/mist (rat) for main component. May be harmful if inhaled.
- Likely Routes of Exposure** : Ingestion, skin, eyes
- Skin Irritation** : Causes mild skin irritation.
- Eye Irritation** : Causes serious eye injury.
- Skin Sensitization** : Product is a skin sensitizer. May cause an allergic skin reaction.
- Carcinogenic** : Suspected of causing cancer.
- Chronic Effects** : Repeated exposures are not anticipated to cause additional significant adverse effects.
- Other Hazards** : Aspiration: May be fatal if swallowed and enters airways. CA Prop 65 Warning: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. (1,4-dioxane; acetaldehyde; naphthalene; oxirane)

12. Ecological Information

- Ecotoxicity** : This product may be moderately toxic to the aquatic environment (for one of the inert ingredients).
- Persistence and Degradability** : For the active ingredient, biodegradation under aerobic laboratory conditions is below detectable limits (BOD20 or BOD28/ThOD <2.5%). Biodegradation may occur under aerobic conditions.
- Bioaccumulative Potential** : For similar active ingredient, the bioconcentration potential is low.
- Mobility in Soil** : For the active ingredient, expected to be immobile in soil.
- 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, U240 for 2,4-D)

14. Transport Information

- UN Proper Shipping Name** : Not regulated by D.O.T. in single containers <26 gallons.
- Transport Hazard Class** : None
- UN Identification Number** : None
- Packaging Group** : None
- Environmental Hazards** : Reportable Quantity (RQ) for 2,4-D acid is 100 lbs (approximately 26 gallons of finished product).



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Transport in Bulk : 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 a single container >26 gallons, ship as: RQ, UN3082, Environmentally Hazardous Substance, Liquid, n.o.s., (2,4-D Acid), 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 : 5905-600

FIFRA Signal Word : Caution

FIFRA Label Statement : Keep out of reach of children.

FIFRA Label Statement : Harmful if swallowed or absorbed through skin.

FIFRA Label Statement : Causes moderate eye irritation.

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

FIFRA Label Statement : Avoid contact with skin, eyes or clothing.

FIFRA Label Statement : No additional label statements.

FIFRA Label Statement : No additional label statements.

16. Other Information

Data of Preparation/Revision : 25-January-2017