



Safety Data Sheet

Report Date 12-Apr-17

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1. Identification

Product Name : WEED RHAP LV-6D
Synonyms : 2,4-D LV Ester Herbicide
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 : Not classified as hazardous under 29 CFR 1910.1200 (2012)
Eye Irritation : Not classified as hazardous under 29 CFR 1910.1200 (2012)
Acute Toxicity Oral : No LD50 for mixture; similar formulation LD50 (rat)=1,380 mg/kg
Acute Toxicity Dermal : No LD50 for mixture; similar formulation LD50 (rabbit) >2,020 mg/kg (no mortality at this dose)
Hazard Categories : Oral Toxicity-4; STOT, Single-3; STOT, Repeated-2; Aspiration Hazard-1; Aquatic Tox Acute/Chronic-2
Hazard Statement : Harmful if swallowed
May cause respiratory irritation
May cause damage to organs (liver, kidneys) through prolonged or repeated exposure
May be fatal if swallowed and enters airways
Harmful to aquatic life with long lasting effects

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Acetic Acid, (2,4-Dichlorophenoxy)-Isooctyl (2-ethylhexyl) ester	1928-43-4	90-95
Distillates (Petroleum), Hydrotreated Light	64742-47-8	3.8-4.2



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Other ingredients

Trade Secret

Trade Secret

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 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 if this product is ingested. Treat symptomatically. Contains petroleum distillates, vomiting may cause aspiration pneumonia.

5. Fire Fighting Measures

Extinguishing Media : Use foam or water spray for large fires. For small fires, use dry chemical or carbon dioxide.

Specific Hazards Arising from the Chemical : May produce gases such as hydrogen chloride and oxides of carbon and nitrogen under fire conditions.

Special Fire Fight Proc : Wear self-contained breathing apparatus and full protective clothing. Dike area to prevent runoff and contamination of water sources.

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. Wear NIOSH-approved air-purifying respirator with cartridges for pesticides, if needed. Eyewash and emergency shower should be available in work area.

Emergency Procedures : Prevent material from entering public sewer systems or any waterways.

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



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- Precautions for Safe Handling** : Avoid breathing vapor or spray mists. Do not get in eyes, on skin or on clothing. Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing and personal protective equipment (PPE) immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. If pesticide gets on skin, wash immediately with soap and water. Remove PPE immediately after handling this product. Wash outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.
- Conditions for Safe Storage** : Store in original container in a dry, secured storage area. Keep container tightly closed when not in use. Do not contaminate water, food, or feed by storage or disposal.

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 amber liquid; kerosene-like odor.
- Flash Point, °F** : 218 Degrees F. (SETA)
- Boiling Point, °F** : No data available
- Melting Point(Freezing point), °C** : No data available
- Vapor Pressure, mm Hg @ 20 °C** : No data available
- Vapor Density** : No data available
- Solubility in Water** : Emulsifiable
- Molecular Formula** : Not applicable, formulated mixture.
- Density, g/mL @ 25 °C** : 1.127-1.147
- Evaporation Rate(Butyl Acetate = 1)** : No data available
- Octanol/Water Partition Coefficient** : No data available
- pH** : 3.0 to 5.0 (1%)
- Flammable Limits (approximate volume % in air)** : No data available
- Auto-ignition Temperature** : No data available
- Decomposition temperature** : No data available

10. Stability and Reactivity



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- Reactivity** : Not reactive
Chemical Stability : Stable
Hazardous Decomposition Products : Under fire conditions, may produce gases such as hydrogen chloride and oxides of carbon and nitrogen.
Hazardous Polymerization : Will not occur
Conditions to Avoid : Excessive heat. Do not store near heat or flame.
Incompatible Materials : Strong oxidizing agents: bases and acids.

11. Toxicological Information

- Acute Toxicity (Oral LD50)** : 1,380 mg/kg (rat) for similar but not identical formulation. Harmful if swallowed.
Acute Toxicity (Dermal LD50) : >2,020 mg/kg (rabbit) for similar formulation. Not classified as hazardous under 29 CFR 1910.1200.
Acute Toxicity Inhalation LC50 : >5.12 mg/L/4 hr for similar formulation. Not classified as hazardous under 29 CFR 1910.1200 (2012).
Likely Routes of Exposure : Ingestion, Inhalation
Skin Irritation : Not classified as hazardous under 29 CFR 1910.1200 (2012).
Eye Irritation : Not classified as hazardous under 29 CFR 1910.1200 (2012).
Skin Sensitization : Not a skin sensitizer.
Carcinogenic : Animal cancer tests have shown no reliably positive association between 2,4-D exposure and cancer.
Chronic Effects : Specific Target Organ Toxicity, Repeated: May cause damage to organs (liver, kidneys) through prolonged or repeated exposure.
Other Hazards : Aspiration Hazard: May be fatal if swallowed and enters airways. Specific Target Organ Toxicity, Single: May cause respiratory irritation.

12. Ecological Information

- Ecotoxicity** : This pesticide is toxic to fish and aquatic invertebrates. 2,4-D EHE: Bluegill 96-hr LC50>5 mg/L; Rainbow Trout 96-hr LC50=7.2 mg/L; Daphnia 48-hr EC50>5 mg/L.
Persistence and Degradability : The typical half-life of the resultant 2,4-D acid ranged from a few days to a few weeks.
Bioaccumulative Potential : No data available
Mobility in Soil : No data available
Other Adverse Effects : Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas.

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)



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14. Transport Information

UN Proper Shipping Name : Not regulated by D.O.T. in single containers <12 gallons.
Transport Hazard Class : None
UN Identification Number : None
Packaging Group : None
Environmental Hazards : Reportable Quantity (RQ) for 2,4-D is 100 lbs (approximately 12 gallons of finished product).
Transport in Bulk : If shipped in single package >119 gallons, ship as: RQ, UN3082, Environmentally Hazardous Substance, Liquid, n.o.s., (2,4-D Ester), 9, PG III "ERG # 171"
Special Precautions for Transportation : If shipped in a single container >=12 gallons, ship as: RQ, UN3082, 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 Pressure: N
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 : 5905-508
FIFRA Signal Word : Caution
FIFRA Label Statement : Keep out of reach of children.
FIFRA Label Statement : Avoid contact with skin, eyes, or clothing.
FIFRA Label Statement : Harmful if swallowed.
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. Avoid inhaling vapor or spray mist.

16. Other Information

Data of Preparation/Revision : 12-April-2017