

Report 03-Jun-15 Date

> 1 of 4 Page

1. Identification

Product Name : 2,4-D LV 4 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: Minimally irritating (rabbit)

Eye Irritation : Causes slight to moderate eye irritation

Acute Toxicity Oral : LD50 >1,000 mg/kg (rat) Acute Toxicity Dermal : LD50 >2,000 mg/kg (rat)

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

Hazard Statement: Harmful if swallowed

May be harmful in contact with skin

Causes eye irritation Causes mild skin irritation Harmful if inhaled

3. Composition / Information on Ingredients

Component **CAS Number** Weight % 2-Ethylhexyl ester of 1928-43-4 63.7 2,4-Dichlorophenoxyacetic Acid Inert ingredients Nonhazardous 36.3

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.

Indication of Immediate Medical

Attention and Special Treatment

: In the event of an adverse response, treatment should be directed toward

control of the symptoms.

Needed



Report 03-Jun-15 Date

> Page 2 of 4

Extinguishing Media: Use water spray or foam.

Specific Hazards Arising from the : Hydrogen chloride, oxides of nitrogen.

Chemical

Special Fire Fight Proc : Wear self-contained breathing apparatus and full protective clothing. Evacuate area and fight fire upwind from a safe distance to avoid possible hazardous

fumes and decomposition products. Dike and collect water used to fight fire.

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 respirator with organic vapor cartridge and pesticide prefilter in enclosed areas. Eyewash and emergency shower should be available in work

Emergency Procedures Minimize use of water to prevent environmental contamination.

Methods and Materials for Clean up spills immediately. Absorb small spills on sand, vermiculite or other inert absorbent. Place contaminated material in appropriate container for Containment and Cleanup

disposal. Dike large spills 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, and scrape up for disposal.

7. Handling and Storage

Precautions for Safe Handling: Keep locked up and out of reach of children. Do not contaminate water, food or

feed by storage, handling or disposal. Keep container tightly closed. Do not

allow water to be introduced into the contents of the container.

Conditions for Safe Storage : Store in original container only. Do not store near heat or open flame. Do not

store with oxidizing agents or ammonium nitrate.

Exposure Controls / Personal Protection

TLV/PEL: 2-Ethylhexyl ester of 2,4-Dichlorophenoxyacetic acid - 10 mg/m3 (TLV),

Appropriate Engineering Controls: Local mechanical exhaust ventilation may be required.

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

footwear. Use respirator with organic vapor cartridge and pesticide prefilter in enclosed areas. Eyewash and emergency shower should be available in work

9. Physical and Chemical Properties

Odor/Appearance: Clear light amber liquid, fuel oil like odor.

Flash Point, °F : >100 Degrees C.

Boiling Point, °F : No information found Melting Point(Freezing point), °C : No information found Vapor Pressure, mm Hg @ 20 °C : 0.4 mmHg at 24 Degrees C.

Vapor Density: No information found

Solubility in Water : Emulsifies

Molecular Formula: Not applicable, formulated mixture.

Density, g/mL @ 25 °C : 1.018

Evaporation Rate(Butyl Acetate = : No information found

1)

Octanol/Water Partition : No information found

Coefficient pH : 3.5 to 4.5



Report 03-Jun-15 Date

Page 3 of 4

Flammable Limits (approximate : No information found

volume % in air)

Auto-ignition Temperature: No information found Decomposition temperature: No information found

10. Stability and Reactivity

Reactivity: No information found

Chemical Stability: Stable

Hazardous Decomposition : Thermal decomposition may release toxic gases such as hydrogen chloride,

· Products oxides of nitrogen and carbon.

Hazardous Polymerization: Will not occur

Conditions to Avoid : Avoid excessive heat. Incompatible Materials: Oxidizing agents and acids.

11. Toxicological Information

Acute Toxicity (Oral LD50) : >1,000 mg/kg (rat). Harmful if swallowed.

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

Acute Toxicity Inhalation LC50 : >4.0 mg/L. Harmful if inhaled. Likely Routes of Exposure : Ingestion, eyes, skin, inhalation.

Skin Irritation: Causes mild skin irritation. Eye Irritation: Causes eye irritation. Skin Sensitization: Not a skin sensitizer. Carcinogenic: Listed by IARC (2B). Chronic Effects: None currently known.

Other Hazards: Laboratory tests have shown decreased fetal body weights at doses toxic to the

mother animals (teratogen). Not a mutagen.

12. Ecological Information

Ecotoxicity: This pesticide may be toxic to fish and aquatic invertebrates.

Persistence and Degradability: 2,4-D Ethylhexyl Ester rapidly de-esterifies to the parent acid in the

environment. Typical half-life of the 2,4-D acid form is from a few days to a few

weeks.

Bioaccumulative Potential: No information found

Mobility in Soil: The use of this chemical in areas where soils are permeable, particularly where

the water table is shallow, may result in groundwater contamination.

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 <26 gallons. If single package >/= 26

gallons, ship as RQ, Environmentally Hazardous Substance, Liquid, n.o.s.,

(2,4-D ethylhexyl ester)

Transport Hazard Class: Class 9 (>/= 26 gal)



Report 03-Jun-15

Page 4 of 4

UN Identification Number : UN3082 (>/= 26 gal)

Packaging Group : PG III

Environmental Hazards: Reportable Quantity (RQ) 100 lbs (>/= 26 gallons in single package).

Transport in Bulk : RQ, UN3082, Environmentally Hazardous Substance, Liquid, n.o.s., (2,4-D

ethylhexyl ester), 9, PG III "ERG # 171"

Special Precautions for : Use ERG # 171

Transportation

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 : 42750-15-5905

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 : Avoid contact with skin, eyes or clothing.

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

individuals.

FIFRA Label Statement : No additional label statements.
FIFRA Label Statement : No additional label statements.

16. Other Information

Data of Preparation/Revision: 03-June-2015