

MATERIAL SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

COMPANY ADDRESS:

ALBAUGH, INC.
Ankeny, IA 50021

EMERGENCY TELEPHONE NUMBERS:

(800) 424-9300 (CHEMTREC, transportation and spills)

PRODUCT NAME : **2, 4-D LV 4**
 CHEMICAL NAME : 2-Ethylhexyl ester of 2,4-Dichlorophenoxyacetic Acid
 CHEMICAL FAMILY : Phenoxy herbicide
 PRODUCT CODE : EPA Reg. No. 42750-15

SECTION 2 - COMPOSITION, INFORMATION OF INGREDIENTS

COMPONENT	PERCENTAGE	CAS NUMBER	OSHA PEL	ACIGH TLV
2-Ethylhexyl ester of 2,4-Dichlorophenoxyacetic Acid	63.7 %	1928-43-4	10 mg/m3	10 mg/m3
Inert Ingredients	36.3%	N/A	N/A	N/A

SECTION 3 - HAZARDS IDENTIFICATION SUMMARY

(As defined by OSHA Hazard Communication Standard, 29 CFR 1910.1200)

HEALTH HAZARDS: Harmful if swallowed or absorbed through skin. Causes moderate eye irritation.

PHYSICAL HAZARDS: May release toxic fumes if burned.

ENVIRONMENTAL HAZARDS: 2,4-D ester is toxic to some aquatic organisms.

SECTION 4 - FIRST AID MEASURES

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 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.

NOTE TO PHYSICIAN: May cause chemical pneumonitis if aspirated. If lavage is performed, suggest endotracheal and/or esophagosopic control.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT: > 200F

AUTOIGNITION TEMPERATURE: Not established

FLAMMABLE LIMITS: Not established

EXTINGUISHING MEDIA: Water spray, Foam

FIRE FIGHTING INSTRUCTIONS: 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 to prevent environmental damage due to run off. Foam or dry chemical fire extinguishing systems are preferred to prevent environmental damage from excessive water run off.

FIRE FIGHTING EQUIPMENT: Self-contained breathing apparatus with full facepiece and protective clothing.

HAZARDOUS COMBUSTION PRODUCTS: Hydrogen chloride, Oxides of nitrogen,

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Clean up spills immediately, observing precautions in Section 8 of this document. Isolate hazard area. Keep unnecessary and unprotected personnel from entering.

SMALL SPILL: Absorb small spills on sand, vermiculite or other inert absorbent. Place contaminated material in appropriate container for disposal.

LARGE SPILL: 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.

SECTION 7 - HANDLING AND STORAGE

KEEP OUT OF REACH OF CHILDREN!

HANDLING: Use only in a well-ventilated area. Do not reuse this container. Wear proper safety equipment.

STORAGE: Keep container closed when not in use. Keep away from food, feed and drinking water. Store away from heat (> 100 F).

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE LIMITS (8 hour TWA, ppm): Refer to Section 3.

ENGINEERING CONTROLS: Proper ventilation is required when handling or using this product to keep exposure to airborne contaminants below the exposure limit. Local mechanical exhaust ventilation may be required. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

PERSONAL PROTECTIVE EQUIPMENT:

EYE PROTECTION - Safety goggles or full face respirator if vapors cause eye discomfort.

CLOTHING – Long-sleeved shirt and long pants, Shoes plus socks. Chemical resistant apron if mixing/loading or cleaning equipment.

GLOVES – Chemical resistant gloves made of any waterproof material.

RESPIRATOR - When handling in enclosed areas where exposure limits may be exceeded, use a respirator with either an organic vapor removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G)

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL DESCRIPTION: Clear, dark red liquid

ODOR: Faint aromatic

SPECIFIC GRAVITY: 1.00 – 1.06 g/ml (8.35 – 8.85 lb/gal.)*

pH: N/A

WATER SOLUBILITY: Emulsifies

*Listed density is an approximate value and does not necessarily represent that of a specific batch.

SECTION 10 - STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions.

CONDITIONS TO AVOID: Avoid excessive heat.

MATERIALS TO AVOID: Oxidizing agents and acids.

HAZARDOUS POLYMERIZATION: Will not occur

HAZARDOUS DECOMPOSITION: Thermal decomposition may release toxic gases such as Hydrogen chloride, oxides of nitrogen and carbon.

SECTION 11 - TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

Oral LD₅₀ (rat) - > 1,000 mg/Kg

Dermal LD₅₀ (rat) - > 2,000 mg/Kg

Inhalation LC₅₀ (rat) - > 3.0 mg/L

Eye Irritation (rabbit) - Slight

Skin Irritation (rabbit) - Slight

Sensitization (guinea pig) - Non-sensitizer

CARCINOGEN STATUS:

OSHA - No

NTP - No

IARC - 2B

MUTAGENIC DATA: Not known to be mutagenic

SECTION 12 - ECOLOGICAL INFORMATION

ENVIRONMENTAL SUMMARY: This pesticide may be toxic to fish and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment washwaters or rinsate. Apply this product only as directed on label.

This chemical has properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination. Application around a cistern or well may result in contamination of drinking water or groundwater. Most cases of groundwater contamination involving phenoxy herbicides such as 2,4-D have been associated with mixing/loading and disposal sites. Caution should be exercised when handling 2,4-D pesticides at such sites to prevent contamination of groundwater supplies. Use of closed systems for mixing or transferring this pesticide will reduce the probability of spills. Placement of the mixing/loading equipment on an impervious pad to contain spills will help prevent groundwater contamination.

FISH TOXICITY: (Acid Technical)

96 hour LC₅₀, Bluegill – 524 mg/L

96 hour LC₅₀, Rainbow trout – 250 mg/L

AVIAN TOXICITY: (Acid Technical)

Oral LD₅₀, Quail – 500 mg/Kg

Oral Dietary LC₅₀, Mallard Duck - > 5,500 ppm

BEE TOXICITY: Unknown.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTES: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of federal law and may contaminate groundwater. If these wastes cannot be disposed of by use according to label instructions, contact your state Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

CONTAINER: Non-refillable containers: Do not reuse or refill this container. Offer for recycling, if available. Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

Refillable container: Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

Refer to the container label to determine if it is refillable and for complete cleaning and disposal instructions.

SECTION 14 - TRANSPORT INFORMATION

DOT SHIPPING DESCRIPTION:

Containers < 18 gallons –

Not regulated by DOT

Containers ≥ 18 gallons –

UN3082, Environmentally hazardous substance, liquid, n.o.s., 9, III, RQ (2,4-D Ester)

DOT HAZARD CLASS:

Class 9 (for shipments ≥ 18 gallons)

UN NUMBER:

UN3082 (for shipments ≥ 18 gallons)

DOT PACKING GROUP:

PG III

DOT PRIMARY/SECONDARY LABEL:

Class 9 (for shipments ≥ 18 gallons)

DOT PRIMARY/SECONDARY PLACARD:

Class 9 (for shipments ≥ 18 gallons)

DOT EMERGENCY RESPONSE GUIDE #:

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SECTION 15 - REGULATORY INFORMATION

CERCLA REPORTABLE QUANTITY:

100 lbs 2,4-D acid (approx 18 gallons of 2,4-D LV 4)

SARA TITLE III STATUS:

311/312 Hazard Categories -

Immediate & Delayed Health

313 Toxic Chemicals –

Ethylhexyl ester of 2,4-D

CALIFORNIA PROP 65:

Not listed

SECTION 16 - OTHER INFORMATION

HMIS HAZARD RATINGS	HEALTH	1
	FLAMMABILITY	1
	PHYSICAL HAZARD	1
	4=Severe 3=Serious 2=Moderate 1=Slight 0=Minimal	

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REVISED DATE: August 2012

REVISED FOR: Revise Section 16 HMIS Table flammability value