



MATERIAL SAFETY DATA SHEET

Universal Crop Protection Alliance LLC
1300 Corporate Center Curve
Eagan, MN 55121

In Case of Emergency, Call:
24 Hour Emergency Number
CHEMTREC: 800-424-9300

Medical Emergency Contact:
1-800-228-5635 Ext. 138

1. CHEMICAL IDENTIFICATION

Product Name:	Solventless Ester 4	Product No.:	0107
EPA Signal Word	Caution		
EPA Reg. Number:	42750-22-72693		
Ingredients:	2-Ethylhexyl Ester of 2,4-Dichlorophenoxyacetic Acid, (CAS No.: 001928-43-4)	61.7%	
	Ethylene Glycol (CAS No. 017-21-2)	1.4%	

2. PHYSICAL DATA

Appearance:	White Liquid
Melting Point:	Not Applicable
Odor:	Slight Phenoxy Odor
Boiling Point:	212 Degrees Fahrenheit
Specific Gravity:	1.1 @ 20° C
Solubility in H ₂ O:	Disperses to Form an Emulsion
Vapor Pressure:	Not Established
Vapor Density:	Not Established

3. FIRE AND EXPLOSION DATA

Flash Point:	Not Applicable
Autoignition Temperature:	Not Determined
Flammable Limits:	Not Determined
Extinguishing Media:	Dry Chemical, Carbon Dioxide, Water Spray, or Foam.
NFPA Classification:	Health - 2, Flammability = 0, Reactivity = 0 {0 = Least, 1 = Slight, 2 = Moderate, 3 = High, 4 = Severe}

4. REACTIVITY DATA

Stability:	Stable Under Normal Conditions
Conditions to Avoid	None
Materials to Avoid:	Acids, Bases, and Strong Oxidizing Agents
Hazardous Polymerization:	Will Not Occur
Hazardous Decomposition:	Thermal decomposition may release toxic and/or hazardous gases.

5. ENVIRONMENTAL AND DISPOSAL INFORMATION

Use absorbent material to contain spills. Place contaminated absorbent in drums and dispose of at an EPA approved incinerator. Do not reuse containers. Empty containers should be triple rinsed and disposed of in accordance with local, state, and federal regulations. Large spills should be reported immediately to Chemtrec (800-424-9300)

RCRA Hazardous Waste Codes: D016, U240

CERCLA Reportable Quantity: 100 LB

5. HEALTH HAZARD DATA

ROUTES OF ENTRY: CONTACT, INHALATION, INGESTION

Inhalation: Expected to be harmful. Overexposure may cause irritation to the respiratory tract, coughing, and dizziness.

Skin Contact Frequent or prolonged contact may cause irritation.

Eye Contact: Moderately irritating to the eyes.

Ingestion: Harmful if swallowed. Excessive exposure may cause headache, nausea, vomiting, and abdominal pain. The oral rat LD₅₀ for the 2-Ethylhexyl Ester of 2,4-D is 896 MG/KG, and for the Ethylene Glycol is 4700 MG/KG. Severe kidney damage results from ingesting large quantities of Ethylene Glycol.

Carcinogenicity: 2-Ethylhexyl Ester of 2,4-D is not specifically listed as a carcinogen by NTP, IARC, or OSHA. IARC lists Chlorophenoxy Herbicides as a class 2B carcinogen - limited evidence in humans. The Science Advisory Panel of EPA has given a class D status - not classifiable as to human carcinogenicity. Ethylene Glycol has been reported to be an experimental Teratogen.

Medical Conditions Possibly Aggravated by Exposure: Breathing vapors may aggravate conditions such as asthma, emphysema, or chronic bronchitis.

7. FIRST AID

Eyes: Flush with running water for at least 15 minutes. If irritation persists, get medical attention.

Skin: Wash thoroughly with soap and water, get medical attention if irritation persists.

Inhalation: Remove to fresh air, if breathing stops, administer artificial respiration and get medical attention immediately. If breathing is difficult, refer to a physician.

Ingestion: Do not induce vomiting, get medical attention.

8. HANDLING PRECAUTIONS

- Ventilation:** Handle in a well ventilated area. If ventilation is not adequate, wear a respirator approved for organic vapors.
- Protective Clothing:** Wear chemical resistant gloves, long pants, long sleeved shirt, chemical resistant boots, and a hat. Avoid direct contact with the skin.
- Eye Protection:** Wear safety goggles or face shield.

9. SARA TITLE III NOTIFICATION AND INFORMATION:

SARA Title III Hazard Classes: Acute Health = Yes, Chronic Health = Yes, Fire = No, Sudden Pressure = No

This product contains the following toxic chemicals subject to the reporting requirements of SARA Title III Sec 313 and 40 CFR Part 372.

2-Ethylhexyl Ester of 2,4-Dichlorophenoxyacetic Acid	CAS # 1928-43-4	61.7 %
Ethylene Glycol	CAS # 107-21-1	1.4 %

10. ADDITIONAL INFORMATION

Store in cool, dry place, do not store near food or within the reach of Children.

The information herein is presented in good faith and believed to be accurate as of the issue or revised date shown above. However, since the actual use of the product is beyond manufacturers control, no warranty, expressed or implied, is given and no responsibility assumed. Regulatory requirements governing this product are subject to change and may differ from one location to another. It is the buyer's responsibility to ensure that the buyer's activities comply with federal, state and local laws.