

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

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SECTION 1: Identification

Product Identifier

Product Name: Vendra II

Product code: EPA Reg. No.: 91234-309

1 Todact Codel El A Reg. No.: 31234 303

Recommended Use of the Product and Restriction on Use

Relevant Identified Uses: Emulsifiable Concentrate Herbicide **Uses Advised Against:** Any use other than specified above.

Reasons Why Uses Advised Against: Not determined or not applicable.

Manufacturer or Supplier Details

Manufacturer:

United States

Atticus, LLC 940 NW Cary Parkway Suite 200 Durham, North Carolina 27513 (984) 465-4754

Emergency Telephone Number:

For Chemical Emergency

CHEMTREC 1-800-424-9300 (24 hours) +1-703-527-3887 (24 hours)

Collect calls accepted

For Emergency Medical Treatment Information

SAFETYCALL 1-844-685-9173 (24 hours)

SECTION 2: Hazard(s) Identification

GHS Classification:

Acute toxicity (inhalation), category 4
Skin sensitization, category 1B
Reproductive toxicity, category 2
Aspiration hazard, category 1
Acute aquatic hazard, category 1
Chronic aquatic hazard, category 1

Label elements

Hazard Pictograms:









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Signal Word: Danger **Hazard statements:**

H361 Suspected of damaging fertility or the unborn child.

H304 May be fatal if swallowed and enters airways

H317 May cause an allergic skin reaction

H332 Harmful if inhaled

H400 Very toxic to aquatic life

H410 Very toxic to aquatic life with long lasting effects

Precautionary Statements:

P101 If medical advice is needed, have product container or label at hand

P102 Keep out of reach of children

P103 Read label before use

P202 Do not handle until all safety precautions have been read and understood

P280 Wear protective gloves, protective clothing and eye protection.

P273 Avoid release to the environment

P261 Avoid breathing mist, vapors or spray.

P272 Contaminated work clothing must not be allowed out of the workplace

P271 Use only outdoors or in a well-ventilated area

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor

P331 Do NOT induce vomiting

P308+P313 If exposed or concerned: Get medical advice or attention.

P302+P352 IF ON SKIN: Wash with plenty of water.

P333+P313 If skin irritation or rash occurs: Get medical advice or attention.

P321 Specific treatment (see Sections 4-8 of this SDS and any supplemental information on the product label).

P363 Wash contaminated clothing before reuse

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P391 Collect spillage

P312 Call a POISON CENTER or doctor if you feel unwell

P405 Store locked up

P501 Dispose of contents and container in accordance with federal, state and local regulations.

Hazards Not Otherwise Classified: None

SECTION 3: Composition/Information on Ingredients

Identification	Name	Weight %
CAS Number: 79241-46-6	Fluazifop-p-butyl	24.5
CAS Number: 91-57-6	2-Methylnaphthalene	3.5-5.5
CAS Number: 90-12-0	1-Methylnaphthalene	1.8-3.6
CAS Number: 91-20-3	Naphthalene	0.9-3.6

Additional Information:

NOTE: Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

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SECTION 4: First Aid Measures

Description of First Aid Measures

General Notes:

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact SafetyCall at 1-844-685-9173 for emergency medical treatment information. For Chemical Emergency: spill, leak, fire, exposure or accident, call CHEMTREC day or night within USA and Canada at 1-800-424-9300 or +1-703-527-3887 (collect calls accepted).

Show this Safety Data Sheet to the doctor in attendance.

After Inhalation:

If inhaled, remove person to fresh air and place in a position comfortable for breathing. Keep person at rest. If breathing is difficult, administer oxygen. If breathing has stopped, provide artificial respiration. If symptoms develop or persist, seek medical advice/attention.

After Skin Contact:

Remove contaminated clothing and shoes. Rinse skin with copious amounts of water [shower] for several minutes. Launder contaminated clothing before reuse. If symptoms develop or persist, seek medical advice/attention.

After Eve Contact:

Rinse eyes with plenty of water for several minutes. Remove contact lenses if present and easy to do so. Protect unexposed eye. If symptoms develop or persist, seek medical advice/attention.

After Swallowing:

This product presents an aspiration hazard. If aspiration is suspected, seek emergency medical treatment. If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center. Rinse mouth with water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, place on the left side with head down to prevent aspiration of liquid into the lungs. If symptoms develop or persist, seek medical advice/attention.

Most Important Symptoms and Effects, Both Acute and Delayed

Acute Symptoms and Effects:

May be fatal if swallowed and enters airways. Aspiration may cause pulmonary edema and pneumonitis. Symptoms may include shortness of breath, dry cough and irritation of the nose, eyes, lips, mouth and throat.

Dermal exposure may cause an allergic skin reaction. Symptoms may include irritation, redness, pain, rash, inflammation, itching, burning and dermatitis.

Delayed Symptoms and Effects:

Symptoms of pulmonary edema may be delayed.

Effects are dependent on exposure (dose, concentration, contact time).

Symptoms of exposure may be delayed.

Immediate Medical Attention and Special Treatment

Specific Treatment:

Not determined or not applicable.

Notes for the Doctor:

Treat symptomatically.

SECTION 5: Firefighting Measures

Extinguishing Media

Suitable Extinguishing Media:

Small fires: water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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Large fires: alcohol resistant foam.

Unsuitable Extinguishing Media:

Do not use water jet.

Specific Hazards During Fire-Fighting:

Thermal decomposition may produce irritating/toxic fumes/gases.

Special Protective Equipment for Firefighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full-face piece operated in positive pressure mode.

Special precautions:

Avoid contact with skin, eyes, hair and clothing. Do not breathe fumes/gas/mists/aerosols/vapors/dusts. Move containers from fire area if safe to do so. Use water spray/fog for cooling fire exposed containers. Avoid unnecessary run-off of extinguishing media which may cause pollution.

SECTION 6: Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency Procedures:

Not determined or not applicable.

Environmental Precautions:

Prevent further leakage or spillage if safe to do so. Prevent from reaching drains, sewers and waterways. Discharge into the environment must be avoided.

Methods and Material for Containment and Cleaning Up:

Harmful if inhaled. Put on appropriate personal protective equipment, including a self-contained breathing apparatus (see Section 8) before entering area of spill or leak. Avoid breathing dust, mist, fumes, vapors or spray. Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Stop leak if you can do it without risk. Contain and collect spillage and place in suitable container for future disposal. Dispose of in accordance with all applicable regulations (see Section 13).

Reference to Other Sections:

For personal protective equipment see Section 8. For disposal see Section 13.

SECTION 7: Handling and Storage

Precautions for Safe Handling:

Use appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Avoid breathing mist/vapor/spray/dust. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with skin, eyes and clothing. Wash affected areas thoroughly after handling. Keep away from incompatible materials (See Section 10). Keep containers tightly closed when not in use.

Conditions for Safe Storage, Including Any Incompatibilities:

Store in cool, dry, well-ventilated location out of direct sunlight. Keep away from food and beverages. Protect from freezing and physical damage. Store away from heat, open flames and other sources of ignition. Keep container tightly sealed. Store away from incompatible materials (See Section 10).

SECTION 8: Exposure Controls/Personal Protection

Only those substances with limit values have been included below.

Occupational Exposure Limit Values:

occupational Exposure Entite Valuesi				
Country (Legal Basis)	Substance	Identifier	Permissible concentration	
United States	Fluazifop-p-butyl	79241-46-6	TWA: 0.1 mg/m³ (Industry)	
	1-Methylnaphthalene	90-12-0	TLV-TWA: 3 mg/m³	

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
	2-Methylnaphthalene	91-57-6	TLV-TWA: 3 mg/m ³
ACGIH	Naphthalene	91-20-3	TWA: 10 ppm
NIOSH	Naphthalene	91-20-3	IDLH: 250 ppm
	Naphthalene	91-20-3	TWA: 10 ppm (50 mg/m3)
	Naphthalene	91-20-3	STEL: 15 ppm (75 mg/m3)
OSHA	Naphthalene	91-20-3	TWA: 10 ppm (50 mg/m3 (PEL))
	Naphthalene	91-20-3	STEL: 15 ppm (75 mg/m3)
United States(California)	Naphthalene	91-20-3	PEL: 0.1 ppm (0.5 mg/m3)

Biological Limit Values:

Country (Legal Basis)	Substance	Identifier	Determinant	Specimen	Sampling time	Permissible limits
ACGIH	Naphthalene		1-Naphthol, with hydrolysis + 2-Naphthol, with hydrolysis nonquantitative, nonspecific		EOS	

Information on Monitoring Procedures:

Not determined or not applicable.

Appropriate Engineering Controls:

Emergency eye wash stations and safety showers should be available in the immediate vicinity of use or handling. Provide adequate ventilation to maintain the airborne concentrations of vapor, mists, and/or dusts below the applicable workplace exposure limits, while observing recognized national standards (or equivalent).

Personal Protection Equipment

Eye and Face Protection:

Safety glasses or goggles. Use eye protection equipment that has been tested and approved by recognized national standards (or equivalent).

Skin and Body Protection:

Chemical resistant, impervious gloves approved by the appropriate standards. Gloves must be inspected prior to use. Avoid skin contact with used gloves. Appropriate techniques should be used to remove used gloves and contaminated clothing. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Ensure that all personal protective equipment is approved by recognized national standards (or equivalent).

Respiratory Protection:

If engineering controls do not maintain airborne concentrations below the applicable workplace exposure limits, or to an acceptable level (if exposure limits have not been established), a respirator approved by recognized national standards (or equivalent) must be worn. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

General Hygienic Measures:

When handling chemical products, do not eat, drink or smoke. Wash hands after handling, before breaks, and at the end of the workday. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse. Perform routine housekeeping.

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SECTION 9: Physical and Chemical Properties

Information on Basic Physical and Chemical Properties

1
transparent light amber liquid
mildly bitter
Not determined or not available.
4 - 5
Not determined or not available.
Not determined or not available.
>110 °C (230 °F)
Not determined or not available.
7.9-8.4 lbs/gal (0.95-1.01 g.cm3)
Not determined or not available.
32.5 cP @ 26 °C; 17.0 cP @ 40 °C
Not determined or not available.
Not determined or not available.

SECTION 10: Stability and Reactivity

Reactivity:

Not reactive under recommended handling and storage conditions.

Chemical Stability:

Stable under recommended handling and storage conditions.

Possibility of Hazardous Reactions:

None under normal conditions of use and storage.

Conditions to Avoid:

Avoid confined spaces, extreme heat, open flames, hot surfaces, sparks, ignition sources and incompatible materials.

Incompatible Materials:

Strong oxidizing agents

Hazardous Decomposition Products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological Information

Acute Toxicity

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Assessment:

Harmful if inhaled.

Product Data:

Route	Result
Oral	LD50 Rat: > 5,000 mg/kg
Dermal	LD50 Rat: > 2,000 mg/kg
Inhalation ATE	LC50 Rat: > 4.5 mg/L (Estimation based on product ingredients)

Substance Data:

Name	Route	Result
Fluazifop-p-butyl	oral	LD50 Rat (male): 3,680 mg/kg
		LD50 Rat (female): 2,451 mg/kg
	dermal	LD50 Rat: > 2,000 mg/kg
	inhalation	LC50 Rat: > 5.24 mg/L

Skin Corrosion/Irritation

Assessment: Based on available data, the classification criteria are not met.

Product Data:

No skin irritation (rabbit)

Substance Data:

Name	Result
Fluazifop-p-butyl	Very slight erythema at 72 hours (Rabbit)

Serious Eye Damage/Irritation

Assessment: Based on available data, the classification criteria are not met.

Product Data:

No eye irritation (rabbit)

Substance Data:

Name	Result
Fluazifop-p-butyl	Non-irritating (Rabbit)

Respiratory or Skin Sensitization

Assessment:

May cause an allergic skin reaction.

Product Data:

Skin sensitizer (guinea pig)

Substance Data:

Name	Result
Fluazifop-p-butyl	Dermal sensitizer (Mouse)

Carcinogenicity

Assessment: Based on available data, the classification criteria are not met.

Product Data: No data available.

Substance Data:

Name	Species	Result
Fluazifop-p-butyl		EPA: Not likely to be Carcinogenic to Humans
Naphthalene		Suspected of causing cancer.

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International Agency for Research on Cancer (IARC):

Name	Classification
Fluazifop-p-butyl	Not Applicable
Naphthalene	Group 2B

National Toxicology Program (NTP):

Name	Classification
Fluazifop-p-butyl	Not Applicable
Naphthalene	Reasonably anticipated to be human carcinogens

OSHA Carcinogens:

Ingredient Name	CAS	OSHA Carcinogens Status
Naphthalene	91-20-3	Yes

Germ Cell Mutagenicity

Assessment: Based on available data, the classification criteria are not met.

Product Data: No data available.

Substance Data:

Name	Result
Fluazifop-p-butyl	No evidence of mutagenic effects during in vivo and in vitro assays.

Reproductive Toxicity

Assessment:

Suspected of damaging fertility or the unborn child.

Product Data:

No data available.

Substance Data:

Name	Result
'''	Some evidence of reproductive toxicity has been demonstrated in animal studies.

Specific Target Organ Toxicity (Single Exposure)

Assessment: Based on available data, the classification criteria are not met.

Product Data: No data available.

Substance Data: No data available.

Specific Target Organ Toxicity (Repeated Exposure)

Assessment: Based on available data, the classification criteria are not met.

Product Data: No data available.

Substance Data: No data available.

Aspiration toxicity

Assessment:

May be fatal if swallowed and enters airways.

Product Data:

Solvent naphtha (petroleum), highly aromatic may be fatal if swallowed and enters airways.

Substance Data: No data available.

Information on Likely Routes of Exposure:

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No data available.

Symptoms Related to the Physical, Chemical, and Toxicological Characteristics:

No data available.

Other Information:

Information in this section is provided from a similar formulation.

SECTION 12: Ecological Information

Acute (Short-Term) Toxicity

Assessment:

Very toxic to aquatic life. Product Data: No data available.

Substance Data:

Name	Result
Fluazifop-p-butyl	Fish LC50 Bluegill sunfish: 0.53 mg/L (96 hr)
	Aquatic Invertebrates EC50 Daphnia: 5.14 mg/L (48 hr)
	Aquatic Invertebrates EC50 Mysid shrimp: 0.216 mg/L (86 hr)
	Aquatic Invertebrates EC50 Pacific oyster: 0.083 mg/L (48 hr)
	Aquatic Plants LC50 Algae: > 52.7 mg/L

Chronic (Long-Term) Toxicity

Assessment:

Very toxic to aquatic life with long lasting effects.

Product Data: No data available. Substance Data: No data available.

Persistence and Degradability

Product Data: No data available.

Substance Data:

Name	Result
Fluazifop-p-butyl	Rapidly degrades in aerobic soil to fluazifop-acid.

Bioaccumulative Potential

Product Data: No data available.

Substance Data:

Name	Result
Fluazifop-p-butyl	Bioaccumulation is not expected at typical environmental pH range.

Mobility in Soil

Product Data: No data available.

Substance Data:

Name	Result
Fluazifop-p-butyl	Fluazifop-acid is highly mobile

Results of PBT and vPvB assessment

Product Data:

PBT assessment: This product does not contain any substances that are assessed to be a PBT. **vPvB** assessment: This product does not contain any substances that are assessed to be a vPvB.

PBT assessment: This product does not contain any substances that are assessed to be a PBT. **vPvB** assessment: This product does not contain any substances that are assessed to be a vPvB.

Other Adverse Effects: No data available.

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SECTION 13: Disposal Considerations

Disposal Methods:

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Do not contaminate water, food, or feed by storage or disposal. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. Dispose of excess or waste pesticide by use according to label directions, or contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Contaminated packages:

CONTAINER DISPOSAL: Nonrefillable and refillable containers. Refer to the product label for specific container disposal instructions.

SECTION 14: Transport Information

United States Transportation of Dangerous Goods (49 CFR DOT)

UN Number	Not regulated
UN Proper Shipping Name	Not regulated
UN Transport Hazard Class(es)	None
Packing Group	None
Environmental Hazards	None
Special Precautions for User	None
Additional Information	This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

International Maritime Dangerous Goods (IMDG)

UN Number	UN3082	
UN Proper Shipping Name	Environmentally hazardous substance, liquid, N.O.S. (fluazifop-p-butyl)	
UN Transport Hazard Class(es)	9	
Packing Group	III	
Environmental Hazards	Marine Pollutant	
Special Precautions for User	None	
Additional Information	This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.	

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International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN Number	UN3082	
UN Proper Shipping Name	Environmentally hazardous substance, liquid, N.O.S. (fluazifop-p-butyl)	
UN Transport Hazard Class(es)	9	
Packing Group	III	
Environmental Hazards	Marine Pollutant	
Special Precautions for User	None	
Additional Information	This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.	

SECTION 15: Regulatory Information

United States Regulations

Inventory Listing (TSCA): All ingredients are listed-active or exempt.

Significant New Use Rule (TSCA Section 5): None of the ingredients are listed.

Export Notification under TSCA Section 12(b): None of the ingredients are listed.

SARA Section 302 Extremely Hazardous Substances: None of the ingredients are listed.

SARA Section 313 Toxic Chemicals:

91-20-3	91-20-3 Naphthalene		Listed	
CERCLA:				
91-20-3	Naphthalene	Listed	100 lb	
RCRA:				
91-20-3	Naphthalene	Listed	U165	
			-	

Section 112(r) of the Clean Air Act (CAA): None of the ingredients are listed.

Massachusetts Right to Know:

9	1-20-3	Naphthalene	Listed		
New Jersey Right to Know:					
9	1-20-3	Naphthalene	Listed		
New York Right to Know:					

91-20-3 Naphthalene

Per	Pennsylvania Right to Know:			
	91-20-3	Naphthalene	Listed	

Listed

California Proposition 65:

▲WARNING: This product can expose you to Naphthalene; which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

Additional information:

PRECAUTIONARY STATEMENTS

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HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION. Harmful if absorbed through the skin, or inhaled. Causes moderate eye irritation. Do not get in eyes, on skin or on clothing. Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

ENVIRONMENTAL HAZARDS

This product is toxic to fish and aquatic invertebrates. Do not apply to areas where runoff into water bodies is expected. For Terrestrial Uses: Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate. Drift and runoff may be hazardous to aquatic organisms in water adiacent to treated areas.

PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame. Do not mix or allow coming in contact with oxidizing agents. Hazardous chemical reaction may occur.

SECTION 16: Other Information

Abbreviations and Acronyms: None Disclaimer:

This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA APPROVED PRODUCT LABELING (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course. To the extent consistent with applicable law, neither Atticus, LLC nor Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF ATTICUS, LLC AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF ATTICUS, LLC OR SELLER, THE REPLACEMENT OF THE PRODUCT.

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End of Safety Data Sheet