



## Safety Data Sheet

### SECTION 1. IDENTIFICATION

**Product Name:** Oxyfluorfen 2E Herbicide  
**Chemical Name (active):** 2-chloro-1-(3-ethoxy-4-nitrophenoxy)-4-(trifluoromethyl)benzene  
**EPA Registration No.:** 87290-8-84237  
**Recommended Use:** Herbicide  
**Manufacturer:** Solera ATO, LLC  
12230 E Del Norte  
Yuma, AZ 85367  
Customer Service (928) 503-1518

**FOR MEDICAL EMERGENCIES, CONTACT the National Poison Information Center 1-800-222-1222**  
**FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident, call CHEMTREC 1-800-424-9300**

### SECTION 2. HAZARDS IDENTIFICATION

*NOTE: Please refer to Section 11 for detailed toxicological information.*

#### HAZARD CLASSIFICATION

Acute Oral Toxicity: Category 4; Acute dermal Toxicity: Category 4; Acute Inhalation Toxicity: Category 3;

**SIGNAL WORD** Warning

#### HAZARD STATEMENTS

Causes skin irritation. Causes moderate eye irritation. Harmful if swallowed or absorbed through the skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

#### Primary Routes of Entry

Ingestion, skin/eye contact, inhalation.

#### Delayed Effects

Repeated overexposure to the active ingredient in this material can cause liver damage. Prolonged or repeated exposure to naphtha can cause liver damage and kidney damage.

#### Symptoms of Exposure

Inhalation: Product causes headache, dizziness, nausea, vomiting and cramps. Inhalation of solvent vapor or mist can cause irritation of the nose, throat and lungs, headache, nausea, dizziness, drowsiness, loss of coordination, stupor and unconsciousness.

Ingestion: Product causes headache, dizziness, nausea, vomiting and cramps.

Skin Contact: Product is irritating to skin. Prolonged or repeated skin contact can cause defatting and drying of the skin, which can lead to irritation and dermatitis, skin sensitization in susceptible individuals.

Eye: Irritating to eyes.

#### Physical Properties

Appearance: Amber Liquid

Odor: Solvent-type

#### PICTOGRAMS



### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous Component Name</u>	<u>CAS-No.</u>	<u>Average % by Weight</u>
Oxyfluorfen	042874-03-3	23.00

### SECTION 4. FIRST AID MEASURES

**General** When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.

- Eye** 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 physician or poison control center immediately.
- Skin** Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.
- Ingestion** Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.
- Inhalation** Move 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 physician or poison control center immediately.

**Notes to Physician**

There is no specific antidote. Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended.

**SECTION 5. FIRE FIGHTING MEASURES**

Hazardous Thermal Decomposition Products

Chloride compounds, fluoride compounds and nitrogen oxides.

In Case of Fire

Use dry chemical, foam, water spray or CO<sub>2</sub> extinguishing media. Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area, and equipment until decontaminated. Water runoff can cause environmental damage. If water is used to fight fire, dike and collect runoff.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

In Case of Spill or Leak

Keep away from all ignition sources. Ventilate the spill area. Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in Section 8. Cover entire spill with absorbing material and place into compatible disposal container. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

**SECTION 7. HANDLING AND STORAGE**

**Handling Procedures**

Handle and open container in a manner as to prevent spillage. Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation.

**Storing Procedures**

Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Store above 32° F. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

**Work/Hygienic Procedures**

Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics. Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.

**SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Ventilation**

Control exposure levels through the use of general and local exhaust ventilation.

**Respiratory Protection**

If necessary, under the conditions of use, wear a NIOSH-approved organic vapor respirator with particulate prefilter.

**Personal Protective Equipment (PPE)**

**Eye Protection**  
**Clothing Protection**  
**Skin Protection**

Use splash-proof goggles if needed to prevent liquid from getting into the eyes.  
Launder clothing after use. Wash thoroughly after handling.  
Wear long sleeves and trousers to prevent skin contact, and chemical resistant gloves such as nitrile or butyl rubber.  
Clean water should be available for washing in case of eye or skin contamination. Educate and train employees in safe use of the product. Follow all label instructions.

**Other Protective Measures**

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance** Amber Liquid  
**Physical State** liquid  
**Odor** solvent-like  
**pH** 5-7  
**Specific Gravity** 1.06 at 20°C  
**Flash Point:** > 160° F  
**Explosion Properties:** Naphtha (vapors) may form explosive mixture with air.  
**Lower Explosion Limit:** 0.8%  
**Upper Explosion Limit:** 7%

**SECTION 10. STABILITY AND REACTIVITY**

**Stability:** Stable under normal use and storage conditions.  
**Hazardous Polymerization:** Will not occur.  
**Conditions to Avoid:** None known.  
**Materials to Avoid:** Oxidizing agents, acids, alkali.  
**Hazardous Decomposition Products:** Chloride compounds, fluoride compounds, nitrogen oxides.

**SECTION 11. TOXICOLOGICAL INFORMATION**

Acute Toxicity/Irritation Studies (Finished Product)

Acute Oral LD50 (Rat): >2,500 mg/kg  
Acute Dermal LD50 (Rat): >2,000 mg/kg  
Acute Inhalation LC50 (Rat): >2.02 mg/L (4-hr)  
Eye Irritation (Rabbit): Severely irritating.  
Dermal Irritation (Rabbit): Moderately irritating.  
Dermal Sensitization: Not a skin sensitizer.

**SECTION 12. ECOLOGICAL INFORMATION**

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 surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent sites. Apply this product as specified on the label.

**SECTION 13. DISPOSAL CONSIDERATIONS**

**WASTE DISPOSAL**

Treatment, storage, transportation and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Do not flush to surface water or sanitary sewer system.

**DISPOSAL**

Do not contaminate water, food or feed by storage. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. 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 DISPOSAL**

Triple rinse containers. Puncture container to avoid re-use. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State/Provincial and local authorities, by burning. If burned, stay out of smoke.

**SECTION 14. TRANSPORT INFORMATION**

**DOT CLASSIFICATION:**

Not regulated for Domestic Surface Shipment

**IMDG CLASSIFICATION:**

UN3082, Environmentally Hazardous Substances Liquid, N.O.S. (Oxyfluorfen), 9, PG III, Marine Pollutant

**FREIGHT CLASSIFICATION:**

Insecticides or Fungicides, N.O.I.; other than poison

**SECTION 15. REGULATORY INFORMATION****TSCA list**

The ingredients of the product are listed on the TSCA inventory or are exempt.

**SARA Title III****Section 311/312**

Acute Health Hazard (immediate)

Chronic Health Hazard (delayed)

**Section 313 Chemical(s)**

Oxyfluorfen (23%) (CAS No. 42874-03-3)

Naphthalene (<8%) (CAS No. 91-20-3)

**Section 302:**

Not Applicable.

**CA Prop65**

This product contains a material (naphthalene) known to the State of California to cause cancer.

**CERCLA/SARA 302 Reportable Quantity (RQ)**

Naphthalene 100 lbs.

**RCRA Hazardous Waste Classification (40 CFR 261)**

Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

**SECTION 16. OTHER INFORMATION**

NFPA 704 (National Fire Protection Association):

Health – 2 Flammability – 2 Reactivity -0 Others - none

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

This information is provided in good faith but without express or implied warranty. The customer assumes all responsibility for safety and use not in accordance with label instructions.

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