LONGWIND
CROPSCIENCE USA LLC

www.longwind-us.com

SAFETY DATA SHEET

This Safety Data Sheet (SDS) complies with the requirements of the U.S. Federal Occupational Safety and Health Administration Hazard Communication 29 CFR 1910.1200 (g)(2).

Blastwave 480 SC

Version	Revision Date:
4.0	07/25/2026

1. IDENTIFICATION OF THE PRODUCT & COMPANY

Product Name: **Blastwave 480 SC**

Other means of identification: EPA Reg. No. 103087-11

Intended Use: Herbicide

Company Identification:
Longwind Cropscience USA LLC.
8 THE GREEN, STE A, DOVER, KENT,
DE, 19901, UNITED STATES

Emergency Information: In the event of a leak, fire or medical emergency involving a human or animal please call INFOTRAC: 1-800-535-5053 or Outside the USA and Canada at 1-352-323-3500, 24/7/365.

2. HAZARD IDENTIFICATION

GHS-US classification

Health and Environmental Hazards:

Acute Toxicity – Inhalation (Dusts/Mists)	Category 4
Specific target organ toxicity (repeated exposure)	Category 2

Required Label Elements

Pictograms:



Signal Word: Warning

Hazard Statements:
Harmful if inhaled
May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements:
Prevention:
Keep out of reach of children.
Read label before use.
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Contaminated work clothing must not be allowed out of the workplace
Wear protective gloves

Response:
If medical advice is needed, have product container or label at hand.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
Get medical advice/attention if you feel unwell.
Collect spillages.

Storage and Disposal:
Store locked up
Store in a well-ventilated place. Keep cool

Dispose of contents/container to an approved waste disposal plant

Other information
May be harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Number	CONTENT %	Active Ingredient
Oxyfluorfen	42874-03-3	39.1-41.5	X
Ethoxylated Polyoxypropylene	9003-11-6	1-5	
Ethylene glycol	107-21-1	1-5	
Other ingredient	PROPRIETARY	＞50.0%	

The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

General advice: Have the product container, label or Material Safety Data Sheet with you when going for treatment. Tell the person contacted the complete product name, and the type and amount of exposure. Describe any symptoms and follow the advice given.
Skin contact: Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.
Eye contact: Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, and then continue rinsing eyes. Call a poison control center or doctor for treatment advice.
Ingestion: Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.

Inhalation: Remove to fresh air. If symptoms persist, call a physician. If breathing has stopped, give artificial respiration. Get medical attention immediately.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: In case of fire, use carbon dioxide, dry chemical or foam. Alcohol resistant foam is the preferred firefighting medium but, if it is not available, normal foam can be used. Try to contain spills, minimise spillage entering drains or water courses.
Unsuitable extinguishing media: Do not scatter spilled material with high pressure water streams.
Fire and Explosion Hazards: The major hazard in fires is usually inhalation of heated and toxic or oxygen deficient (or both), fire gases.
Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.
Explosion data
Sensitivity to mechanical impact: None.
Sensitivity to static discharge: None.
Special protective equipment for fire-fighters: Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: As a minimum, wear overalls, goggles and gloves. Suitable materials for protective clothing include rubber, PVC and Nitrile. Eye/face protective equipment should comprise, as a minimum, protective glasses and, preferably, goggles. If there is a significant chance that vapours or mists are likely to build up in the cleanup area, we recommend that you use a respirator. Usually, no respirator is necessary when using this product.
Environmental precautions: In the event of a major spill, prevent spillage from entering drains or water courses.
Method for cleaning up: Stop leak if safe to do so, and contain spill. Absorb onto sand, vermiculite or other suitable absorbent material. If spill is too large or if absorbent material is not available, try to create a dike to stop material spreading or going into drains or waterways. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. Recycle containers wherever possible after careful cleaning. Refer to product label for specific instructions. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. Full details regarding disposal of used containers, spillage and unused material may be found on the label.

7. HANDLING AND STORAGE

Handling: Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this SDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

Storage: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Control parameters
Occupational exposure Limits

Ingredient name	
Oxyfluorfen	None

Ethoxylated Polyoxypropylene	None

Appropriate engineering controls
Engineering Controls:
Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment
Eye/Face Protection: To avoid contact with eyes, wear chemical goggles or shielded safety glasses. An emergency eyewash or water supply should be readily accessible to the work area.
Skin and body Protection: Wear suitable protective clothing.
Hand protection: Wear suitable gloves.
Respiratory Protection: No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
General Hygiene Considerations: Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material: 1) do not store, use and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored; 2) wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics or using the toilet.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Off-white suspended liquid
Ordor:	Orderless
Melting/Freezing Point:	Not determined
pH:	5.0-8.0
Solubilities:	Not determined
Flammability:	Not flammable
Explosive properties:	No potential explosibility
Density:	1.19 g/ml
Persistent foaming (1min), mL：	≤60

10. STABILITY AND REACTIVITY

Reactivity: This product is unlikely to react or decompose under normal storage conditions.
Chemical Stability: Stable under recommended storage conditions.
Possibility of Hazardous Reactions: This product will not undergo polymerisation reactions.
Conditions to Avoid: Protect this product from light. Store in the closed original container in a dry, cool, wellventilated area out of direct sunlight.
Incompatible Materials: strong acids, strong bases, strong oxidising agents.
Hazardous Decomposition Products: Combustion forms carbon dioxide, and if incomplete, carbon monoxide and possibly smoke. Water is also formed. May form hydrogen fluoride gas and other compounds of fluorine. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.

11. TOXICOGICAL INFORMATION

Product Information

Acute toxicity Oxyfluorfen is not harmful by ingestion, with reported oral LD50 values of 5000 mg/kg in both rats and dogs, and 2700 to 5000 mg/kg in mice. It is also not harmful by dermal exposure the LD50 is greater than 5000 mg/kg in both rats and rabbits. It causes no skin irritation in rabbits, no

	skin sensitization in guinea pigs, and moderate eye irritation in rabbits. However, some formulated products may show severe skin and eye irritant properties, and may be skin sensitizers.
Chronic toxicity	Effects on the liver have been observed in long-term feeding studies with rats, mice, and dogs.
Teratogenic effects	In a developmental study with rabbits, 30 mg/kg/day, the highest dose tested, produced an increase in fused sternal bones in the foetuses as well as toxic effects on the mothers. These data suggest Oxyfluorfen may have teratogenic effects, but only at very high doses.
Mutagenic effects	Mutagenicity tests on rats, mice and on bacterial cell cultures have produced mixed results. Due to the conflicting results, it is not possible to determine the mutagenic potential of Oxyfluorfen.
Carcinogenicity	The data suggests that Oxyfluorfen is not carcinogenic.
Reproductive toxicity	It does not appear likely that Oxyfluorfen will cause reproductive effects in humans at likely levels of exposure.
Organ toxicity	The liver appears to be the main target organ, based on long-term feeding studies.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Inhalation	
Short term exposure	Available data indicates that this product is not harmful. In addition product is unlikely to cause any discomfort or irritation.
Long Term exposure	No data for health effects associated with long term inhalation.
Skin Contact	
Short term exposure	Available data indicates that this product is not harmful. It should present no hazards in normal use. However product may be irritating, but is unlikely to cause anything more than mild transient discomfort.
Long Term exposure	No data for health effects associated with long term skin exposure.
Eye Contact	
Short term exposure	This product may be irritating to eyes, but is unlikely to cause anything more than mild transient discomfort.
Long Term exposure	No data for health effects associated with long term eye exposure.
Ingestion	
Short term exposure	Significant oral exposure is considered to be unlikely. Available data shows that this product is not harmful. However, this product may be irritating to mucous membranes but is unlikely to cause anything more than transient discomfort.
Long Term exposure	No data for health effects associated with long term ingestion.

12. ECOLOGICAL INFORMATION

Effects on birds :	Oxyfluorfen is practically nontoxic to birds; the reported oral LD50 values are greater than 2200 mg/kg in bobwhite quail, and greater than 4000 mg/kg in mallard duck.
Effects on aquatic organisms :	Oxyfluorfen is highly toxic to aquatic invertebrates, freshwater clams, oysters, aquatic plants, and fish. Studies indicate a low to moderate potential for bioaccumulation in aquatic species.
Effects on other organisms:	Oxyfluorfen is nontoxic to honeybees, with a reported oral LC50 of greater than 10,000 ppm.
Environmental Fate:	

Breakdown in soil and groundwater：	Oxyfluorfen is moderately persistent in most soil environments, with a representative field half-life of about 30 to 40 days. Oxyfluorfen is not subject to microbial degradation or hydrolysis. The main mechanism of degradation in soils may be photodegradation and evaporation/codistillation in moist soils.
Breakdown in water：	In water, Oxyfluorfen is rapidly decomposed by light. Because Oxyfluorfen is nearly insoluble in water and has a tendency to adsorb to soil, it will be sorbed to suspended particles or sediments.
Breakdown in vegetation：	There is very little movement of Oxyfluorfen within treated plants. It is not readily metabolized by plants, but since it is not readily taken up by roots, residues in plants are generally very low. Residues of Oxyfluorfen accumulated in carrots and oats grown on previously treated fields, but not in cotton or lettuce.

13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues/unused products

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging

Do not reuse empty containers.

14. TRANSPORTATION INFORMATION

DOT :
Not regulated for domestic ground transport by US DOT.

IATA : UN 3082 Environmentally Hazardous Substance, Liquid, N.O.S.(Oxyfluorfen), 9, III
REMARKS: Single or inner packaging less than 5 L (liquid) or 5 Kg net (solids) excepted from Dangerous Goods regulations

IMDG: UN 3082 Environmentally Hazardous Substance, Liquid, N.O.S.(Oxyfluorfen), 9, III, Marine Pollutant
REMARKS: Single or inner packaging less than 5 L (liquid) or 5 Kg net (solids) excepted from Dangerous Goods regulations

15. REGULATORY INFORMATION

EPA-FIFRA LABEL INFORMATION THAT DIFFERS FROM OSHA-GHS REQUIREMENTS:
Pesticide products in the U.S. are registered by the EPA under FIFRA and are subject to certain labeling requirements under federal pesticide law. These requirements may differ from the classification criteria and hazard information required by OSHA GHS for safety data sheets, and for workplace labels of non-pesticide chemicals. The following is the hazard information as required on the FIFRA pesticide label:

CAUTION. Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating,

drinking, chewing gum, using tobacco or using the toilet. Wear long-sleeved shirt and long pants, socks, shoes, and (waterproof or chemical-resistant) gloves. Remove and wash contaminated clothing before reuse.

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical name	SARA 313 - Threshold Values %
Oxyfluorfen - 42874-03-3	1.0
Ethylene glycol - 107-21-1	1.0

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CERCLA

Components	CAS-No.	Component RQ (lbs)
Ethylene glycol	107-21-1	5000

16. OTHER INFORMATION

This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of the how the product will be handled and used in the workplace including in conjunction with other products.
If clarification or further information is needed to ensure that an appropriate risk assessment can be made the user should contact the company.