

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).

Frigate LW 51% WDG

Version Revision Date:
4.0 10/20/2025

1. IDENTIFICATION OF THE PRODUCT & COMPANY

Product Name: Frigate LW 51% WDG

Product Code: EPA Reg. No. 103087-2

Intended Use: Herbicide

Company Identification:

Longwind Cropsience 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

Classification

Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Reproductive toxicity	Category 2

Required Label Elements

EMERGENCY OVERVIEW:

WARNING



Hazard Statements:

Harmful if inhaled
Suspected of damaging fertility or the unborn child

Precautionary Statements:**Prevention:**

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required.
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area

Response:

IF EXPOSED OR CONCERNED: Get medical advice/attention
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Storage:

Store locked up

Disposal

Dispose of contents/container to an approved waste disposal plant

3. **COMPOSITION/INFORMATION ON INGREDIENTS**

Component	CAS Number	Active ingredient	%
Flumioxazin	103361-09-7	x	49.47-52.53
Sodium dodecyl sulphate	151-21-3		1-5
Ammonium sulfate	7783-20-2		15-25
Other ingredient	n/a		25-30

4. **FIRST AID MEASURES**

If Swallowed: Do not give any liquid to the person. 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 symptoms develop, get medical advice.

If in Eyes: Hold eye open and rinse slowly and gently with water for several minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Get medical attention if irritation persists.

If on Skin or Clothing: Take off contaminated clothing. Wash with soap and water. Get medical attention if irritation or symptoms develop.

If Inhaled: Move person 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 poison control center or doctor for further treatment advice.

Advice to physician: There is no specific antidote. Treat symptomatically and supportively as and when required.

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

for treatment.

5. **FIRE FIGHTING MEASURES**

Flash point: Not applicable

Extinguishing Media: Use foam, dry chemical, carbon dioxide, or water spray when fighting fires involving this material.

Hazardous thermal composition products: May produce gases such as fluorine compounds, and oxides of carbon and nitrogen.

Fire fighting instructions: Evacuate area and fight fire upwind from a safe distance to avoid hazardous vapors and decomposition products. Dike and collect water used to fight fire to prevent environmental damage due to run off. Minimize use of water to prevent environmental contamination.

Fire fighting equipment: Full firefighting turn-out gear (Bunker gear) including self-contained breathing apparatus with full face piece.

6. **ACCIDENTAL RELEASE MEASURES**

In case of spills: Clean up spills immediately. Reduce airborne dust and avoid breathing dust. Wear appropriate safety equipment. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Consult Section 8 of this document for additional precautions.

Small spill: Vacuum or sweep up material and place in a container for reuse or disposal.

Large spill: Avoid creating dust cloud. Vacuum or sweep up material and place in a container for reuse or disposal. Pick up wash liquid with additional absorbent for disposal. After removal, flush contaminated area thoroughly with water.

Caution: Minimize use of water to prevent runoff into municipal sewers or other open bodies of water and minimize environmental contamination. Contact your State Pesticide or Environmental Control Agency, or nearest EPA Regional Office for guidance on disposal.

7. **HANDLING AND STORAGE**

Keep out of reach of children!

Handling

Use only in a well-ventilated area. Wear proper safety equipment specified in Section 8 when mixing, loading or otherwise handling concentrate. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing if pesticide gets inside clothing. Then wash thoroughly and put on clean clothing. Remove PPE after handling this product. Wash outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. Do not reuse container.

Storage

Keep pesticide in original container. Keep container tightly closed when not in use. Store in a locked storage area. Avoid cross contamination with other pesticides or fertilizers during handling and storage. Store in a cool, dry place. Do not contaminate water, feed, or food by storage and disposal. Do not store diluted spray.

8. **EXPOSURE CONTROL/PERSONAL PROTECTION**

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

Personal protective equipment:**Eye protection:** Protective eyewear**Skin protection:** Long-sleeved shirt and long pants, shoes plus socks, chemical-resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride.**Respirator:** Normally not required. If handling in an enclosed environment where dusts or mists may exceed acceptable levels, wear NIOSH approved air-purifying respirator approved for pesticides.

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.

Use 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 outside of gloves before removing. As soon as possible wash thoroughly and change into clean clothing.

9. **PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	Off-white to slight yellow granular
Odor	Slightly faint
Water	≤3%
Melting/Freezing Point	Not determined
Suspension	≥70%
pH	5-8
Wet sieve test through 75 µm test sieve	≥98%
Wettability	≤60s
Solubilities	Not determined
Flash Point	Not determined
Persistence foaming	≤60ml
Spontaneity of dispersion	≥90%
Density	Pour density 0.576, tap density 0.616 g/mL

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

10. **STABILITY AND REACTIVITY**

Product reactivity: No information available**Chemical stability:** Stable under normal use and storage conditions.**Possibility of hazardous reactions:** Will not occur.**Conditions to Avoid:** Avoid heat of open flame and high temperatures. Keep containers sealed.**Incompatible materials:** Oxidizing materials. Strong acids or bases.**Hazardous Decomposition Products:** May produce gases such as nitrogen compounds, fluorine compounds, or oxides of carbon and nitrogen.

11. **TOXICOLOGICAL INFORMATION**

Acute Toxicity

The following information is from this formulation or from a similar formulation:

Acute oral toxicity	LD ₅₀ (Rats) > 5,000 mg/kg
Acute inhalation toxicity	LC ₅₀ (Rats) > 2.8 mg/l (4h)
Acute dermal toxicity	LD ₅₀ (Rabbits) > 2,000 mg/kg

Skin corrosion/irritation	Brief and/or minor irritation
Serious eye damage/eye irritation	Brief and/or minor irritation
Respiratory or skin sensitisation	Probable non-sensitizer

12. **ECOLOGICAL INFORMATION**

Environmental summary: Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not apply where runoff might occur. Do not apply when weather conditions favor drift from treated areas. Do not contaminate water when cleaning equipment or disposing of equipment wash waters or rinsate.

Fate: Degrades rapidly in soil and water. Leaching potential is low.

Fish toxicity: (technical)

96 hour LC₅₀, Rainbow trout – 2.3 mg/l

96 hour LC₅₀, Bluegill - > 21 mg/l

48 hour EC₅₀, Daphnia – > 6 mg/l

96 hour LC₅₀, Sheepshead Minnow - > 4.7 mg/l

96 hour LC₅₀, Mysid Shrimp – 0.23 mg./l

Avian toxicity: (technical)

Oral LD₅₀, Bobwhite quail - > 2,250 mg/kg

Dietary LC₅₀, Bobwhite quail - > 5,620 ppm

Dietary LC₅₀, Mallard duck - > 2,250 ppm

BEE TOXICITY: Contact LC₅₀ - > 105 ug/bee

13. **DISPOSAL CONSIDERATIONS**

Do not contaminate water, food or feed by storage or disposal.

Pesticide disposal: Excess pesticide spray, mixture, or rinsate resulting from the use of this product can be disposed of onsite according to label instructions or at an approved waste disposal facility. Improper disposal is a violation of Federal Law.

Container disposal:

Non-refillable container: Do not reuse or refill this container. Offer for recycling, if available. Triple rinse or pressure rinse container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke. Refer to the product label for additional and complete Container Handling instructions.

14. **TRANSPORTATION INFORMATION**

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

ICAO/IATA: UN 3077 Environmentally Hazardous Substance, Solid, n.o.s. (Flumioxazin), 9, III, Marine Pollutant

NOTE: Single or inner packaging of less than 5 Kg net excepted from Dangerous Goods regulations – see UN Special Provision 375

IMDG: UN 3077 Environmentally Hazardous Substance, Solid, n.o.s. (Flumioxazin), 9, III, Marine Pollutant

EMS NO: F-A, S-F

15. **REGULATORY INFORMATION**

EPA FIFRA signal word: Caution

- Keep out of reach of children.
- Harmful if inhaled or absorbed through skin.
- Causes moderate eye irritation
- Avoid breathing dust or spray mist.
- Avoid contact with eyes, skin and clothing.

Pesticide regulations: All pesticides are governed under FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act). Therefore, the regulations presented below are pertinent only when handled outside of the normal use and applications of pesticides. This includes waste streams resulting from manufacturing/formulation facilities, spills or misuse of products, and storage of large quantities of products containing hazardous or extremely hazardous substances.

U.S. Federal regulations: Ingredients in this product are reviewed against an inclusive list of federal regulations. Therefore, the user should consult appropriate authorities. The federal regulations reviewed include: Clean Water Act, SARA, CERCLA, RCRA, DOT, TSCA and OSHA. If no components or information is listed in the space below this paragraph, then none of the regulations reviewed are applicable.

16. **OTHER INFORMATION**

This SDS 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 SDS 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.