

SAFETY DATA SHEET

EMERGENCY CALL: 1-800-424-9300 (CHEMTREC)



1. IDENTIFICATION

PRODUCT NAME: BALLAST™ Herbicide
DESCRIPTION: A liquid herbicide
EPA Reg. No.: 81927-85

COMPANY IDENTIFICATION:
Alligare, LLC
1565 5th Avenue
Opelika, AL 36801

2. HAZARD IDENTIFICATION

WARNING

Suspected of damaging fertility or the unborn child (H361)
Very toxic to aquatic life with long lasting effects (H400+H410)



HAZARD CLASSIFICATION

Health Hazard Reproductive toxicity	Category 2	Physical Hazards None	Category -
		Environmental Hazards Hazardous to the aquatic environment, short-term Hazardous to the aquatic environment, short-term	Category 1 1

HAZARDS NOT OTHERWISE CLASSIFIED (HNOC)

DO NOT mix or allow coming in contact with oxidizing agent. Hazardous chemical reaction may occur.
Spray solutions of BALLAST™ Herbicide must be mixed, stored, and applied only in stainless steel, fiberglass, plastic, and plastic-lined steel containers.
DO NOT mix, store, or apply BALLAST™ Herbicide or spray solutions of BALLAST™ Herbicide in unlined steel (except stainless steel) containers or spray tanks.

PRECAUTIONARY STATEMENTS

Obtain, read and follow all safety instructions before use. Wear protective clothing. (P203+P280)
IF exposed or concerned, get medical advice. (P318)
Avoid release to the environment not in accordance with the product label. Collect spillage. (P273+P391)
Store locked up. (P405)
Dispose of contents / container in accordance with local regulations. Refer to the product label for specific disposal instructions. (P501)

3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Common Name</u>	<u>Chemical Name</u>	<u>CAS #</u>	<u>Composition</u>
Imazapyr, isopropylamine salt	Methanesulfonamide, N-[2,4-dichloro-5-[4-(difluoromethyl)-4,5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl]phenyl]-, isopropylamine salt	81510-83-0	35-37%
Flumioxazin	1H-Isoindole-1,3(2H)-dione, 4,5,6,7-tetrahydro-2-(7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl)-	103361-09-7	10-12%
Isopropylamine	2-Propanamine	75-31-0	5-8%

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

4. FIRST AID MEASURES

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-424-9300 for emergency medical treatment information.

5. FIREFIGHTING MEASURES

Flash Point (CC): Not available

Flammable Limits (LFL-UFL): Not available

Fire and Explosion Hazards: Not available.

Extinguishing Medium: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Fire Fighting Equipment: Firefighters should be equipped with self-container positive pressure breathing apparatus and full bunker gear.

Fire Fighting Instructions: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Remove undamaged containers from fire area if it is safe to do so. Evacuate area. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers.

Hazardous Combustion Products: Not available.

NFPA Ratings: Health – 1 / Flammability – 1 / Reactivity - 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

Spill Cleanup: Dike spill using suitable absorbent or impervious materials such as sand or clay. Collect and contain contaminated absorbent and place in an appropriate container for disposal. Pump any free liquid into an appropriate closed container and decontaminate tools and equipment following cleanup. Collect washings for disposal. Take up mechanically, placing in appropriate containers for disposal.

Environmental Precautions: Prevent material from entering public sewer systems or any waterways. Do not flush to drain. Large spills to soil or similar surfaces may necessitate removal of topsoil. The affected area should be removed and placed in an appropriate container for disposal.

7. HANDLING AND STORAGE

Handling: Avoid breathing spray mist. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

Storage: Keep pesticide in original container. Store in a cool, dry, secure place. DO NOT put formulation or dilute spray solution into food or drink containers. DO NOT contaminate food or foodstuffs. DO NOT store or transport near feed or food. Not for use or storage in or around the home. For help with any spill, leak, fire, or exposure involving this material, call day or night CHEMTREC (800) 424-9300.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National occupational exposure limits

Chemical Name	European Union	United Kingdom	France	Spain	Germany
Isopropylamine CAS No. 75-31-0			TWA: 5 ppm TWA: 12 mg/m ³	STEL: 10 ppm STEL: 24 mg/m ³ TWA: 5 ppm TWA: 12 mg/m ³	TWA: 5 ppm TWA: 12 mg/m ³ Ceiling/Peak: 10 ppm Ceiling/Peak : 24 mg/m ³
Chemical Name	Italy	Portugal	Netherlands	Finland	Denmark
Isopropylamine CAS No. 75-31-0		STEL: 10 ppm TWA: 5 ppm		STEL: 5 ppm STEL: 12 mg/m ³	TWA: 5 ppm TWA: 12 mg/m ³
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Isopropylamine CAS No. 75-31-0	STEL 20 ppm STEL 48 mg/m ³ TWA: 5 ppm TWA: 12 mg/m ³	STEL: 10 ppm STEL: 24 mg/m ³ TWA: 5 ppm TWA: 12 mg/m ³	STEL: 24 mg/m ³ TWA: 12 mg/m ³	TWA: 5 ppm TWA 12 mg/m ³ STEL 10 ppm STEL: 18 mg/m ³	TWA: 5 ppm TWA: 12 mg/m ³ STEL: 10 ppm STEL: 24 mg/m ³

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash station and a safety shower.

Protective Clothing: Applicators and other handlers must wear long-sleeved shirt and long pants, chemical-resistant gloves made of any waterproof material shoes and socks.

General: Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water. Keep and wash PPE separately from other laundry.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Light brown liquid	pH:	5-7 (1% dispersion)
Odor:	Mild, bitter	Dynamic viscosity:	not available
Melting/freezing point:	not available	Solubility:	not available
Boiling point/Boiling range:	not available	Partition coefficient:	not available
Flammability:	not available	Vapor pressure:	not available
Flammability limits (upper/lower):	not available	Density:	1.12 g/cm ³ @ 24°C
Flash point (cc):	not available	Relative vapor density:	not available
Auto-ignition temperature:	not available	Particle characteristics:	not available
Decomposition temperature:	not available		

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Heat, flames and sparks.

CHEMICAL STABILITY: Stable under normal conditions.

HAZARDOUS DECOMPOSITION PRODUCTS: None under normal use.

INCOMPATIBILITY WITH OTHER MATERIALS: No information available.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

Information presented below is from testing done on an identical or substantially similar product:

ORAL TOXICITY (rat LD₅₀): > 5,000 mg/kg (EPA Category IV)

DERMAL TOXICITY (rat LD₅₀): > 5,000 mg/kg (EPA Category IV)

INHALATION TOXICITY (rat LC₅₀): > 2.06 mg/L (4-hour) (EPA Category IV)

EYE IRRITATION: Minimally irritating (EPA Category IV)

SKIN IRRITATION: Slightly irritating (EPA Category IV)

SKIN SENSITIZATION: Not a skin sensitizer (Guinea Pigs)

CARCINOGENICITY:

EPA: Not Likely to be Carcinogenic to Humans (imazapyr & flumioxazin)

ACGIH: Not listed

NTP: Not Listed

IARC: Not Listed

OSHA: Not Listed

REPRODUCTIVE TOXICITY / TERATOGENICITY: Reproductive effects were observed in rats exposed to high levels of flumioxazin technical. Flumioxazin technical produced birth defects in the offspring of female rats.

MUTAGENICITY TOXICITY: In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative.

OTHER TOXICITY: Compound related effects of flumioxazin technical noted in rats following subchronic exposures at high dose levels were hematotoxicity including anemia, and increases in liver, spleen, heart, kidney and thyroid weights. In dogs, the effects produced at high dose levels included a slight prolongation in activated partial thromboplastin time, increased cholesterol and phospholipid, elevated alkaline phosphatase, increased liver weights and histological changes in the liver. The lowest no-observable-effect-level (NOEL) in subchronic studies was 30 ppm in the three-month toxicity study in rats. Repeated exposures to flumioxazin technical in animals have produced anemia and other blood formation changes, organ weight changes and changes in blood chemistry. Flumioxazin technical did not produce cancer in life-time feeding studies in laboratory animals.

12. ECOLOGICAL INFORMATION

This product is toxic to plants. Drift and run-off may be hazardous to plants in water adjacent to treated areas. Do not apply to water except as specified on this label.

The following information is for the active ingredient, imazapyr acid:

AQUATIC TOXICITY

Rainbow Trout (96-hr LC₅₀): > 100 mg/L

Bluegill (96-hr LC₅₀): > 100 g/L

Duckweed (EC₅₀): 0.024 mg/L; (NOAEC): 0.01 mg/L

AVIAN TOXICITY

Mallard Duck (Oral LD₅₀): > 2,150 mg/kg

Bobwhite Quail (Oral 8-day): > 2,150 mg/kg

Flumioxazin technical is practically non-toxic to bees and avian species. It is slightly to moderately toxic to freshwater fish and moderately to highly toxic to aquatic invertebrates.

The following information is for the active ingredient, flumioxazin:

Rainbow Trout (96hr LC₅₀): 2.3 mg/L

Daphnia (96hr LC₅₀): >5.5 mg/L

Shrimp (96hr LC₅₀): 0.23 mg/L

Honeybee (contact LC₅₀): 105 µg/bee

Quail/mallard (oral LD₅₀): >2,250 mg/kg

Quail/mallard (dietary LC₅₀): >5,620 ppm

Aquatic plants (EC₅₀): 0.00102 ppm

13. DISPOSAL CONSIDERATIONS

PESTICIDE DISPOSAL: Waste resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

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

14. TRANSPORT INFORMATION

UN Number:	UN3082
Proper Shipping Name:	Environmentally hazardous substance, liquid, N.O.S. (contains imazapyr, flumioxazin)
Transport Hazard Class:	9
Packing Group:	III
Hazard Zone:	None
Marine Pollutant:	Yes ¹
Hazardous Substance RQ:	None
Labels / Placards:	US-DOT: Class 9 Environmentally Hazardous Substance ² IMDG, IATA: Class 9 Environmentally Hazardous Substance ³
Emergency Guide:	171 (NAERG – North American Emergency Response Guide)

¹ **Marine Pollutant Note:** Ground-only shipments are excluded from Marine Pollutant labeling requirements as per 49CFR§172.101 Appendix B(4). For any shipments involving all or part of the transport by vessel, the shipment must be classified as a Marine Pollutant unless a limited quantity exemption applies (see note 3 below).

² **US-DOT Note:** Not regulated for “ground only” shipments.

³ **IMDG / IATA Note:** Not regulated when shipped in single or inner packaging ≤ 1.3 gal. (5 L).

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.

15. REGULATORY INFORMATION

FIFRA –

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. The following is the hazard information as required on the pesticide label:

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Avoid breathing spray mist. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

See inside label booklet for additional Precautionary Statements and Directions for Use including Storage and Disposal instructions.

ENVIRONMENTAL HAZARDS

If not used in accordance with directions on the label, this product is toxic to non-target plants and aquatic invertebrates. This pesticide is toxic to plants. Use strictly in accordance with the drift and run-off precautions on this label in order to minimize off-site exposures.

Under some conditions this product may have a potential to run off to surface water or adjacent land. Where possible, use methods which reduce soil erosion, including no till, limited till and contour plowing; these methods also reduce pesticide run-off.

15. REGULATORY INFORMATION (CONT.)

PHYSICAL OR CHEMICAL HAZARDS

DO NOT mix or allow coming in contact with oxidizing agent. Hazardous chemical reaction may occur.

Spray solutions of BALLAST™ Herbicide must be mixed, stored, and applied only in stainless steel, fiberglass, plastic, and plastic-lined steel containers.

DO NOT mix, store, or apply BALLAST™ Herbicide or spray solutions of BALLAST™ Herbicide in unlined steel (except stainless steel) containers or spray tanks.

All pesticides are governed under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). The regulatory information presented below is pertinent only when this product is handled outside of the normal use and application as a pesticide. This product is excluded from listing requirements under EPA/TSCA.

SARA Title III – Section 302 Extremely Hazardous Substances

Not listed

SARA Title III – Section 311/312 Hazard Categories

Immediate (acute), Delayed (Chronic)

SARA Title III – Section 312 Threshold Planning Quantity

N/A

SARA Title III – Section 313 Reportable Ingredients

None

CERCLA –

None

CALIFORNIA PROP 65 STATUS –

This product does not contain any chemical known to the State of California to cause cancer or other reproductive harm.

CANADA –

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

16. OTHER INFORMATION

THIS INFORMATION IN THIS SDS IS BASED ON DATA AVAILABLE AS OF THE REVISION DATE GIVEN HEREIN, AND BELIEVED TO BE CORRECT. CONTACT ALLIGARE, LLC TO CONFIRM IF YOU HAVE THE MOST CURRENT MSDS. JUDGMENTS AS TO THE SUITABILITY OF THE INFORMATION HEREIN FOR THE INDIVIDUAL'S OWN USE OR PURPOSES IS NECESSARILY THE INDIVIDUAL'S OWN RESPONSIBILITY. ALTHOUGH REASONABLE CARE HAS BEEN TAKEN IN THE PREPARATION OF SUCH INFORMATION, ALLIGARE, LLC EXTENDS NO WARRANTIES, MAKES NO

REPRESENTATIONS, AND ASSUMES NO RESPONSIBILITY AS TO THE ACCURACY OR SUITABILITY OF SUCH INFORMATION FOR APPLICATION TO THE INDIVIDUAL'S PURPOSES OR THE CONSEQUENCES OF ITS USE.

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.

SDS Version: 1.0

Effective Date: 02/02/2023