

## SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**COMPANY ADDRESS:**

RedEagle International LLC  
5143 S. Lakeland Drive - Suite 3  
Lakeland, FL 33813

**EMERGENCY TELEPHONE NUMBERS:**

(800) 424-9300 (CHEMTREC, transportation and spills)  
(800) 222-1222 American Association of Poison Control Centers

**PRODUCT NAME:**

Flu-Rimuron

**CHEMICAL NAME:**

Flumioxazin 2-[7-fluoro-3,4-dihydro-3-oxo-(2-propynyl)-2H-1,4-benzoxazin-6-yl]-4,5,6,7-tetrahydro-1H-isoindole-1,3(2H)-dione  
Chlorimuron (Ethyl 2-[[[(4-chloro-6-methoxypyrimidin-2-yl)amino]carbonyl]amino]sulfonyl]benzoate

**PRODUCT USE:**

Herbicide

**PRODUCT CODE:**

EPA Reg. No. 85678-48

## SECTION 2 - HAZARDS IDENTIFICATION SUMMARY

As defined by OSHA Hazard Communication Standard, 29 CFR 1910.1200

Ivory brownish granule

**HEALTH HAZARDS: WARNING** Repeated or prolonged exposure may cause organ damage, fertility damage, or unborn children. Harmful if inhaled. Do not breathe spray, mist, dust, fumes, or vapors. May cause eye irritation.



**ENVIRONMENTAL HAZARDS:** Acute and chronic hazards to aquatic environments. 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.

## SECTION 3 – COMPOSITION, INFORMATION OF INGREDIENTS

COMPONENT	PERCENTAGE	CAS No.
Flumioxazin	30	1033361-09-7
Chlorimuron-ethyl	10.3	90982-32-4
Others	57 - 61	

## SECTION 4 - FIRST AID MEASURES

First Aid responders should use protective equipment in Section 8 if there is a potential for exposure to product.

**IF IN EYES:** 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 poison control center or doctor for treatment advice.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**IF SWALLOWED:** Call a poison control center or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by poison control center or doctor. Do not give any liquid to a person. Do not give anything by mouth to an unconscious person.

**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.

**NOTE TO PHYSICIAN:** None

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

## SECTION 5 - FIRE FIGHTING MEASURES

### NFPA (National Fire Protection Association) HAZARD RATINGS

HEALTH	FLAMMABILITY	REACTIVITY
1	1	0

4=Severe    3=Serious    2=Moderate    1=Slight    0=Minimal

**FLASHPOINT:** Not applicable

**EXTINGUISHING MEDIA:** Use foam, dry chemical, carbon dioxide, or water spray when fighting fires involving this material.

**FIRE AND EXPLOSION HAZARD:** Can release irritating and toxic gases due to thermal decomposition or combustion.

**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.

## SECTION 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.

## SECTION 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.

<b>SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION</b>
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**EXPOSURE LIMITS:**

COMPONENT	OSHA	ACIGH
Flumioxazin	None	None
Chlorimuron-ethyl	None	None
Others	None	None

**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.

**USER 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.

<b>SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES</b>
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<b>Appearance:</b>	Ivory brownish granule
<b>Odor:</b>	Mild
<b>Melting Point:</b>	No information available
<b>Boiling Point:</b>	No information available
<b>Flash Point:</b>	
<b>Evaporation Rate:</b>	No information available
<b>Flammability:</b>	No information available
<b>Flammability Limits:</b>	No information available
<b>Vapor Pressure:</b>	No information available
<b>Vapor Density:</b>	No information available
<b>Density:</b>	loose granule
<b>Solubility:</b>	Dispersible in water
<b>Partition Coefficient:</b>	No information available
<b>Auto-ignition Temperature:</b>	No information available
<b>Decomposition Temperature:</b>	No information available
<b>Viscosity:</b>	Not applicable

<b>SECTION 10 - STABILITY AND REACTIVITY</b>
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<b>PRODUCT REACTIVITY:</b>	No information available
<b>CHEMICAL STABILITY:</b>	Stable under normal use and storage conditions.
<b>HAZARDOUS REACTION/POLYMERIZATION:</b>	None known.
<b>CONDITIONS TO AVOID:</b>	Open flame. Minimize dust. Direct sunlight.
<b>INCOMPATIBLE MATERIALS:</b>	None reasonably known.
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	Fire conditions may produce oxides of carbon and nitrogen.

### SECTION 11 - TOXICOLOGICAL INFORMATION

**ACUTE TOXICITY:**

Oral LD <sub>50</sub> (rat):	> 5,000 mg/kg	EPA Tox Category	IV
Dermal LD <sub>50</sub> (rabbit):	> 2,000 mg/kg	EPA Tox Category	III
Inhalation LC <sub>50</sub> (rat):	> 2.1 mg/l	EPA Tox Category	IV
Eye irritation:	Mild	EPA Tox Category	IV
Skin irritation:	Slight	EPA Tox Category	IV
Sensitization (guinea pig):	Not a contact sensitizer	EPA Tox Category	IV

**CARCINOGEN STATUS:**

OSHA:	Not listed
NTP:	Not listed
IARC:	Not listed

**TOXICITY OF FLU-RIMURON:**

**SUBCHRONIC:** Repeated exposure may cause decrease in red blood cells, damage to liver, lungs, or thyroid, and lung cancer.

**CHRONIC/CARCINOGENICITY:** Increased liver weights and changes in blood chemistry observed.

**DEVELOPMENTAL TOXICITY:** Embryo-fetal effects at or above levels causing maternal toxicity in rabbits and below that level in rats.

**REPRODUCTION:** Highest doses tested had observable effects but rates suggest no human effects.

### SECTION 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 slowly in soil with a half-life of seven to eight weeks. Leaching is determined by soil pH and organic with lower pH levels and high organic matter reducing leaching through absorption in organic matter.

**FISH TOXICITY:** (technical)

96 hour LC<sub>50</sub>, Rainbow trout – > 1,000 mg/l

96 hour LC<sub>50</sub>, Bluegill - > 100 mg/l

**AVIAN TOXICITY:** (technical)

Dietary LC<sub>50</sub>, Bobwhite quail- > 5,000 ppm

Dietary LC<sub>50</sub>, Mallard duck - > 5,000 ppm

**BEE TOXICITY:** Contact LD<sub>50</sub> - > 12.5 ug/bee

### SECTION 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.

<b>SECTION 14 - TRANSPORT INFORMATION</b>
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**DOT SHIPPING DESCRIPTION:** Not regulated for domestic ground transport by US DOT.

**ICAO/IATA/IMDG:** Single or inner packaging of 5 kg or less exempted from DG regulations – see IATA Special Provision A197 or IMDG 2.10.2.7.

<b>SECTION 15 - REGULATORY INFORMATION</b>
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**CERCLA REPORTABLE QUANTITY:** None  
**EPA FIFRA SIGNAL WORD:** CAUTION  
**OSHA:** WARNING – SEE Section 2

**SARA TITLE III**

**311/312 HAZARD CATEGORY:** Acute, Chronic  
**313 TOXIC CHEMICALS:** Chlorimuron-ethyl – 26.3% by weight in product

**CALIFORNIA PROP 65: WARNING:** Not listed.

**TSCA:** Exempted - solely for FIFRA regulated use.

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

Inert ingredients in chlorimuron-ethyl are listed or present on TSCA, on the Right to Know list in MA, NJ, PA, RI, and on the MN Hazardous Substance lists.

<b>SECTION 16 - OTHER INFORMATION</b>
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**NFPA (National Fire Protection Association) HAZARD RATINGS**

HEALTH	FLAMMABILITY	REACTIVITY
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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. Use, storage and disposal of pesticide products are regulated by the EPA under the authority of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) through the product labeling, and all necessary and appropriate precautionary, use, storage, and disposal information is set forth on that labeling. This data sheet is not a guarantee of safety. Users are responsible for insuring that they have all current information necessary to safely use the product described by this data sheet for their specific purpose.

It is a violation of federal law to use a pesticide product in any manner not prescribed on the EPA-approved label.