# **Safety Data Sheet**



Preparation Date 11-Oct-2023 Revision date 27-Jun-2024 Revision Number: 3

### 1. Identification of the Substance/Preparation and of the Company/Undertaking

**Identification of the product** 

Product Description IronGate Herbicide

Other means of identification

Internal SDS code 12-00IG Registration number(s) 70506-629

Recommended use of the chemical and restrictions on use

Recommended use Herbicide.

**Details of the Supplier of the Safety Data Sheet** 

Supplier Address UPL NA Inc. PO Box 12219

Research Triangle Park, NC 27709-12219

Emergency telephone number

Company Phone Number 1-800-438-6071

**Emergency telephone number** Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887

Medical: Rocky Mountain Poison and Drug Safety (866) 673-6671 (24hrs)

### 2. Hazards Identification

### Classification

### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Corrosion/Irritation	Category 3
Serious eye damage/eye irritation	Category 2B
Skin sensitization	Category 1B

#### Label elements

### **EMERGENCY OVERVIEW**

#### WARNING

### **Hazard Statements**

May cause an allergic skin reaction CAUSES SKIN IRRITATION CAUSES EYE IRRITATION



12-00IG IronGate Herbicide Revision date 27-Jun-2024

# Appearance no data available Physical state Liquid Odor characteristic

### **Precautionary Statements - Prevention**

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Wear cold insulating gloves/face shield/eye protection

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Do not get in eyes, on skin, or on clothing

Contaminated work clothing should not be allowed out of the workplace

Wear protective gloves

Do not spray on an open flame or other ignition source

#### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention

IF ON SKIN: Wash with plenty of soap and water

If skin irritation or rash occurs: Get medical advice/attention

Wash contaminated clothing before reuse

In case of fire: Use CO2, dry chemical, or foam for extinction

### **Precautionary Statements - Storage**

Store locked up

Store in a well-ventilated place. Keep cool

### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

# Hazards Not Otherwise Classified (HNOC) OTHER INFORMATION

Harmful to aquatic life

# 3. Composition/information on Ingredients

Chemical name	CAS No	Weight-%
Flucarbazone sodium	181274-17-9	19.47
Cloquintocet mexyl	99607-70-2	4.87
Pyroxsulam	422556-08-9	5.85
Ethoxylated fatty alcohol	78330-21-9	3.5

If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret.

### 4. First aid measures

### **FIRST AID MEASURES**

Eye contact Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact

lenses, if present, after 5 minutes, then continue rinsing eye. Call a poison control center or

doctor for treatment advice.

**Skin contact** Wash off immediately with soap and plenty of water for at least 15 minutes. Call a poison

control center or doctor for treatment advice.

**Inhalation** 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.

Ingestion Call a physician or poison control center immediately. Never give anything by mouth to an

unconscious person. Do not induce vomiting without medical advice.

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Most Important Symptoms and Effects, Both Acute and Delayed

**Most Important Symptoms and** 

MAY CAUSE ALLERGIC SKIN REACTION.

**Effects** 

Indication of Any Immediate Medical Attention and Special Treatment Needed

Notes to physician Treat symptomatically.

# 5. Fire-fighting measures

Suitable extinguishing media

Foam. Dry chemical. Carbon dioxide (CO2). Water spray. Dry sand.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

### Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating gases and vapours.

#### **Explosion data**

### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Personal Precautions Do not eat, drink or smoke when using this product. Avoid contact with skin and eyes. Use

personal protective equipment. Provide adequate ventilation. Wash thoroughly after

handling.

**Environmental Precautions** 

Environmental precautions Consult a regulatory specialist to determine appropriate state or local reporting

requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Methods and material for containment and cleaning up

Methods for Clean-Up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder,

sawdust). Sweep up and shovel into suitable containers for disposal.

# 7. Handling and Storage

### Precautions for safe handling

Handling Avoid contact with skin and eyes. Wear personal protective equipment. Remove and wash

contaminated clothing before re-use. Do not breathe vapours or spray mist. Provide adequate ventilation. Do not eat, drink or smoke when using this product. Keep out of reach

of children. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Storage Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of

children. Store in an area where cross-contamination with pesticides, fertilizers, food or

feed could not occur.

incompatible materials OXIDIZERS.

### 8. Exposure Controls/Personal Protection

Exposure guidelines This product does not contain any hazardous materials with occupational exposure limits

established by the region specific regulatory bodies.

**Engineering controls** Investigate engineering techniques to reduce exposures. Local mechanical exhaust

ventilation is preferred. Consult ACGIH ventilation manual or NFPA Standard 91 for design

of exhaust systems.

Personal protective equipment

Respiratory protection

**Eye/Face Protection** 

Skin protection

Where there is potential for eye contact have eye flushing equipment available. Safety glasses with side-shields. If splashes are likely to occur, wear:. Goggles. Face-shield.

Chemical resistant footwear plus socks. Long sleeved clothing.

Where airborne exposure is likely, use NIOSH approved respiratory protection equipment

appropriate to the material and/or its components. Full facepiece equipment is recommended and, if used, replaces need for face shield and/or chemical goggles. If exposures cannot be kept at a minimum with engineering controls, consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure, use an approved full face positive-pressure, self-contained breathing apparatus. Respiratory protection

None known

None known

programs must comply with 29 CFR 1910.134.

General hygiene considerations

Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Avoid contact with skin, eyes and clothing. Wear suitable gloves and eye/face protection. Wash hands before breaks and immediately after handling the product.

### 9. Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

Appearance No information available

Physical state Liquid
Odor characteristic
color brown

Property VALUES Remarks/ Method Approximately

Melting point/freezing point Boiling Point/Range

> 100 C / 212 F

None known
None known
None known

Evaporation Rate Flammability (solid, gas)

Relative Density 1.132 g/ml

Specific gravity

**Flash Point** 

**Bulk density** None known Water solubility None known Solubility in Other Solvents No information available None known Partition coefficient: n-octanol/water None known **Autoignition temperature** None known **Decomposition temperature** None known **Viscosity** 148.43 cps None known

9.2 OTHER INFORMATION- NONE

# 10. Stability and Reactivity

Reactivity

no data available

#### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

None under normal processing.

#### Conditions to avoid

No information available.

### incompatible materials

OXIDIZERS.

### **Hazardous decomposition products**

None under normal use conditions.

# 11. Toxicological Information

### Information on Likely Routes of Exposure

Product information IronGate

Acute oral LD50 5,000 mg/kg Acute dermal LD50 >5,000 mg/kg Acute inhalation LC50 >5.01 mg/kg

**Inhalation** Based on available data, the classification criteria are not met.

**Eye contact** Severely irritating to eyes.

Skin contact Based on available data, the classification criteria are not met. Repeated or prolonged skin

contact may cause allergic reactions with susceptible persons.

**Ingestion** Based on available data, the classification criteria are not met.

### Information on Toxicological Effects

**Symptoms** No information available.

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

**Sensitization** No information available. **Mutagenic effects** no data available.

**Carcinogenicity** The information below indicates whether any agency has listed any ingredient as a

carcinogen.

Reproductive effects
STOT - Single Exposure
STOT - Repeated Exposure
Aspiration hazard
Not Available.
no data available.
No information available.

### Numerical Measures of Toxicity - Product information

 LD50 Oral
 5000 mg/kg

 LD50 Dermal
 > 5000 mg/kg

 LC50 Inhalation
 > 20 mg/l (1 hr)

# 12. Ecological Information

### ecotoxicity

Flucarbazone sodium

12-00IG IronGate Herbicide

Revision date 27-Jun-2024

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LC50 FISH (oncorhynchus mykiss) 96 hr = >96.7 mg/L

LC50 GREEN ALGAE 96 hr = 6.4 mg/L

EC50 Daphnia 48 hr =38.8 mg/L

Cloquintocet mexyl

**FISH** 

Rainbow trout 96 hr LC50 = >0.97 ppm

**INVERTBRATE** 

Daphnia magna 48 hr EC50 = >0.82 ppm

**BIRD** 

Bobwhtie quail 14 day LD50 = >2000 mg/kg

### Persistence/Degradability

no data available.

#### **Bioaccumulation/ Accumulation**

Bioaccumulative potential.

### **Other Adverse Effects**

no data available

# 13. Disposal Considerations

#### **Waste Treatment Methods**

Waste Disposal Method Pesticide wastes can be hazardous. Improper disposal of excess pesticide or rinsate is a

violation of Federal law. If the wastes cannot be disposed of by use or 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.

Contaminated packaging Refer to product label.

### 14. Transport Information

**DOT** When shipped domestically by highway in non-bulk containers this product can be shipped

as not regulated.

When shipped in bulk, by vessel, or internationally refer to the IMDG shipping description:

TDG When shipped in Canada domestic highway non-bulk this product can be shipped as Not

regulated as per TDG 1.45.1

In bulk, by vessel or internationally - use IMDG description

IATA Single or inner packagings less than 5L (liquid) or 5kg net (solids) are excepted from the

Dangerous Goods regulations (IATA Special provision A197)

UN/ID no UN3082

Proper shipping name Environmentally hazardous substances, liquid, n.o.s (cloquintocet mexyl)

Hazard class 9
Packing group PG III

**Description** Marine pollutant

IMDG Single or inner packaging less than 5L (liquid) or 5 kg net (solids) are excepted from the

Dangerous Goods regulations (IMDG 2.10.2.7)

UN/ID no UN3082

Proper shipping name Environmentally hazardous substances, liquid, n.o.s (cloquintocet mexyl)

12-00IG IronGate Herbicide

Revision date 27-Jun-2024

Hazard class 9
Packing group PG III

Environmental hazards Marine pollutant

# 15. Regulatory Information

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. Following is the hazard information as required on the pesticide label:

signal word WARNING

**Ventilation Control** When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the

requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [(40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as

specified in the WPS.

Keep out of Reach of Children. Causes substantial but temporary eye injury. Prolonged or frequent repeated skin contact may cause allergic reaction in some individuals. Toxic to plants and may adversely impact the forage and habitat of non-target organisms in areas adjacent to the treated site. Including pollinators.

### **International Inventories**

USINV Not present
DSL/NDSL Not present
EINECS/ Not Present

**ELINCS** 

ENCS Not Present
China Not Present
KECL Not Present
PICCS Not Present
AICS Not Present
TSCA Not Present

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

### 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.

#### **CERCLA**

### **CERCLA**

**RCRA** 

**Pesticide Information** 

	Component	FIFRA - Restricted Use	FIFRA - Pesticide	FIFRA - Listing of	California Pesticides -
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	 uct Other Pesticide Chemicals redients	Restricted Materials
Flucarbazone sodium 181274-17-9 ( 19.47 )	X	
Cloquintocet mexyl 99607-70-2 ( 4.87 )	X	
Pyroxsulam 422556-08-9 ( 5.85 )	X	

**State Regulations** 

State Right-to-Know

International regulations

U.S. EPA Label information

EPA Pesticide registration number 70506-629

### 16. Other Information

NFPA HEALTH 1 flammability 0 Instability 0 Physical hazard -

Preparation Date 11-Oct-2023
Revision date 27-Jun-2024
Revision Summary

Update section 2 Update section 11 Update section 14

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**End of SDS**