Safety Data Sheet



Preparation Date 01-Nov-2023 Revision date 14-Dec-2023 Revision Number: 2

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

Identification of the product

Product Description Batalium Suspension Concentrate Herbicide

Other means of identification

Internal SDS code CAN-2023111
Registration number(s) PMRA # 35024

Recommended use of the chemical and restrictions on use

Recommended use Herbicide.

Uses advised against Activities contrary to label recommendation

Non labeled activities

Details of the Supplier of the Safety Data Sheet

Supplier Address

UPL AgroSolutions Canada Inc.

c/o UPL NA Inc

630 Freedom Business Center, Suite 402,

King of Prussia, PA 19406

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)

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Vapors)	Category 4
Skin Corrosion/Irritation	Category 2
Skin sensitization	Category 1
Reproductive Toxicity	Category 2

Label elements

EMERGENCY OVERVIEW

WARNING

Hazard Statements

HARMFUL IF SWALLOWED

May cause an allergic skin reaction

May be harmful if inhaled

May cause damage to organs through prolonged or repeated exposure

Suspected of damaging fertility or the unborn child



Appearance Opaque

Physical state Liquid

Odor Mild 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

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

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

Do not store at temperatures exceeding 0° C / 32° F

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards Not Otherwise Classified (HNOC)

OTHER INFORMATION

• Very toxic to aquatic life with long lasting effects

3. Composition/information on Ingredients

Chemical name	CAS No	Weight-%
Bromoxynil octanoate (octanoic	1689-99-2	26
acid,2,6-dibromo-4-cyanophenyl ester)		
Fluroxypyr 1-methylheptyl ester	81406-37-3	9.42
Flucarbazone sodium	181274-17-9	1.62
Safener	Proprietary	0 - 10%
Silicon dioxide (Cristobalite)	14808-60-7	1.08
MCPA-2-ethylhexyl ester	29450-45-1	27.69

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

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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.

Most Important Symptoms and Effects, Both Acute and Delayed

Most Important Symptoms and Effects

MAY CAUSE ALLERGIC SKIN REACTION. Suspected of damaging fertility or unborn child.

May cause damage to organs through prolonged or repeated exposure.

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. Keep away from open flames, hot surfaces and

sources of ignition.

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. Do not freeze. Store in an area where cross-contamination with pesticides,

fertilizers, food or feed could not occur.

incompatible materials Strong oxidizing agents. Strong acids. Strong bases.

8. Exposure Controls/Personal Protection

Exposure guidelines

Chemical name	ACGIH TLV	OSHA PEL
Silicon dioxide (Cristobalite)	TWA: 0.025 mg/m ³	TWA: 50 μg/m³
	respirable particulate matter	Action Level: 25 μg/m ³
		(vacated) TWA: 0.1 mg/m³ respirable dust
		: (250)/(%SiO2 + 5) mppcf TWA respirable fraction
		(10)/(%SiO2 + 2) mg/m ³ TWA respirable fraction

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

Eye/Face Protection

Skin protection Respiratory 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 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 Opaque Physical state Liquid

Odor Mild characteristic color No information available

CAN-2023111 Batalium Suspension Concentrate Herbicide

 Property
 VALUES
 Remarks/ Method

 pH
 4.27
 Approximately (1% aq)

Melting point/freezing point

None known
Boiling Point/Range

None known

Boiling Point/Range None known
Flash Point > 104.9 C / 219 F None known

Evaporation Rate > 104.9 C / 219 F None known

Flammability (solid, gas)

None known

Specific gravity 1.157 @ 20 C None known 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 118.7 mPas @20C 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

Extremes of temperature and direct sunlight.

incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

Hazardous decomposition products

Carbon oxides.

11. Toxicological Information

Information on Likely Routes of Exposure

Product information Batalium Suspension Concentrate:

Acute oral LD50 (rat) 550 mg/kg Acute dermal LD50 (rat) >5,000 mg/kg Acute inhalation LC50 (rat) >2.12 mg/kg/4 hr.

Inhalation Harmful by inhalation.

Eye contact Causes substantial but temporary eye injury.

Skin contact Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

Ingestion HARMFUL IF SWALLOWED.

Information on Toxicological Effects

Symptoms No information available.

CAN-2023111 Batalium Suspension Concentrate Herbicide

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

Sensitization Prolonged or repeated contact with skin can cause allergic reactions in susceptible

persons.

Mutagenic effects no data available.

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

carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Silicon dioxide (Cristobalite)	A2	Group 1	Known	X
14808-60-7		•		

Reproductive effects May damage fertility or the unborn child.

STOT - Single Exposure no data available.
STOT - Repeated Exposure no data available.
Aspiration hazard No information available.

Numerical Measures of Toxicity - See above

12. Ecological Information

ecotoxicity

Very toxic to aquatic life with long lasting effects

Flucarbazone sodium

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

Fluoxypyr-meptyl

LC50 FISH (rainbow trout) 96 hr = 13.4- 100 mg/L

EC50 DAPHNIA 96 hr = > 100 mg/ L

LC50 FISH (bluegill sunfish) 96 hr = > 14.3 mg/L

Bromoxynil octanoate:

96 hr Bluegill LC50 = 0.06 mg/L

96 hr Rainbow trout LC50 = 0.041 mg/L 48 hr Daphnia magna EC50 = 0.046 mg/L Oral LD50 Bobwhite quail = 148 mg/kg

Oral LD50 Mallard duck = 2050 mg/kg

Persistence/Degradability

no data available.

Bioaccumulation/ Accumulation

Bioaccumulative potential.

Chemical name	Log Pow
Fluroxypyr 1-methylheptyl ester	4.53
81406-37-3	

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

DOTWhen 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

UN/ID no UN3082

Proper shipping name Environmentally hazardous substances, liquid, n.o.s (Fluroxypyr-meptyl) (Bromoxynil

octanoate)

Hazard class 9
Packing group PG III

Description Marine pollutant

IMDG

UN/ID no UN3082

Proper shipping name Environmentally hazardous substances, liquid, n.o.s (Bromoxynil octanoate)

(Fluroxypyr-meptyl)

Hazard class 9
Packing group PG III

Environmental hazards Marine pollutant

15. Regulatory Information

This chemical/product is a pesticide product registered by the PMRA and is subject to specific label requirements under these regulations. The requirements may differ classification and hazard information required for safety data sheets and for labels of non-pesticide products. The following is information as required on the registered product label.

signal word WARNING

POISON. EYE IRRITANT. Potential skin sensitizer. May be fatal if swallowed. Toxic to aquatic organisms and non-terrestrial plants.

International Inventories

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

ELINCS

ENCS

Not Present

China

Not Present

KECL

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

Not applicable

CERCLA

RCRA

Pesticide Information

Component	FIFRA - Restricted Use	FIFRA - Pesticide Product Other Ingredients	FIFRA - Listing of Pesticide Chemicals	California Pesticides - Restricted Materials
Fluroxypyr 1-methylheptyl ester 81406-37-3 (9.42)		g	Х	
Flucarbazone sodium 181274-17-9 (1.62)			Х	
Safener (0 - 10%)			X	

State Regulations

Component	California Prop. 65
Bromoxynil octanoate (octanoic acid,2,6-dibromo-4-cyanophenyl ester)	Developmental
1689-99-2 (26)	·

Prop 65 Pictogram



Prop 65 Warning Statement California Proposition 65

WARNING

This product can expose you to chemicals which is [are] known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

State Right-to-Know

Chemical name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Bromoxynil octanoate		Χ			
(octanoic					
acid,2,6-dibromo-4-cyanophe					
nyl ester) - 1689-99-2					
Silicon dioxide (Cristobalite) -	Х	X	X	X	
14808-60-7					

International regulations

U.S. EPA Label information

EPA Pesticide registration number PMRA # 35024

1	6	Other	Info	rmation
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NFPA HEALTH 2 flammability 1 Instability 0 Physical hazard -

Preparation Date 01-Nov-2023 Revision date 14-Dec-2023 Revision Summary

Add to system

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End of SDS