

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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## **SECTION 1: Identification**

#### 1.1. Identification

Product form : Mixture

Product name : BATALIUM® Herbicide : Other means of identification EPA Reg. No. 66330-434

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use : Herbicide

Restrictions on use : No additional information available

## 1.3. Details of the supplier of the safety data sheet

Arysta LifeScience North America, LLC 15401 Weston Parkway, Suite 150

Cary, NC 27513 - USA T 1-866-761-9397

## 1.4. Emergency telephone number

Emergency number

Exposure calls (PROPHARMA): 1-866-303-6952 or +1-651-603-3432 (international)
 Spill calls (CHEMTREC) (Contract # CCN1779): +1-800-424-9300 or +1-703-527-3887 (international)

## **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

#### **GHS-US** classification

Acute Tox. 4 (Oral) H302 Acute Tox. 4 (Inhalation:dust,mist) H332 Skin Irrit. 2 H315 Eve Irrit, 2B H320 Skin Sens. 1 H317 Repr. 2 H361 STOT RE 2 H373 Aquatic Acute 1 H400 Aquatic Chronic 1 H410

Full text of hazard classes and H-statements : see section 16

#### 2.2. Label elements

## **GHS-US** labelling

Hazard pictograms (GHS-US)



GHS07





GHS08

GHS09

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H302+H332 - Harmful if swallowed or if inhaled

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H320 - Causes eye irritation

H361 - Suspected of damaging fertility or the unborn child.

H373 - May cause damage to organs through prolonged or repeated exposure.

H400 - Very toxic to aquatic life.

H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (GHS-US) : P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P260 - Do not breathe mist, vapours, spray.

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 - Wash hands thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product P271 - Use only outdoors or in a well-ventilated area.

P272 - Contaminated work clothing must not be allowed out of the workplace

P273 - Avoid release to the environment.

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P280 - Wear eye protection, protective gloves, protective clothing.

P301+P312 - If swallowed: Call a doctor if you feel unwell

P302+P352 - If on skin: Wash with plenty of soap and water

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313 - If exposed or concerned: Get medical advice/attention.

P312 - Call a doctor if you feel unwell

P314 - Get medical advice/attention if you feel unwell.

P321 - Specific treatment (see First aid measures on this label)

P330 - Rinse mouth.

P332+P313 - If skin irritation occurs: Get medical advice/attention.

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 - If eye irritation persists: Get medical advice/attention.

P362+P364 - Take off contaminated clothing and wash it before reuse.

P363 - Wash contaminated clothing before reuse.

P391 - Collect spillage.

P405 - Store locked up.

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

#### Other hazards

No additional information available

## Unknown acute toxicity (GHS US)

2% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)

2% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)

2% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

## SECTION 3: Composition/information on ingredients

#### **Substances** 3.1.

Not applicable

#### 3.2. **Mixtures**

Name	Product identifier	% (w/w)	GHS-US classification
bromoxynil octanoate (Active)	(CAS-No.) 1689-99-2	35.17	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Acute Tox. 3 (Inhalation:dust,mist), H331 Skin Sens. 1, H317 Repr. 2, H361 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Surfactant	(CAS-No.) trade secret	20 – 25	Eye Irrit. 2B, H320
fluroxypyr-meptyl (ISO) (Active)	(CAS-No.) 81406-37-3	13.03	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Alcohol, C10-12, ethoxylated propoxylated	(CAS-No.) 68154-97-2	3 – 7	Eye Irrit. 2A, H319
Surface active agent	(CAS-No.) trade secret	1 – 5	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318
Polymeric ester	(CAS-No.) trade secret	1 – 5	Skin Irrit. 2, H315 Eye Dam. 1, H318
Flucarbazone sodium (Active)	(CAS-No.) 181274-17-9	2.59	Not classified
Petroleum distillates	(CAS-No.) trade secret	1-2	Flam. Liq. 3, H226 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Safener	(CAS-No.) trade secret	0.52	Acute Tox. 3 (Inhalation), H331 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

<sup>\*</sup>Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Full text of H-statements: see section 16

#### **SECTION 4: First aid measures**

#### 4.1. **Description of first aid measures**

First-aid measures general : Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention.

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First-aid measures after inhalation : Assure fresh air breathing. Allow the victim to rest. Remove person to fresh air and keep

comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

First-aid measures after skin contact : Wash with plenty of water/.... Wash contaminated clothing before reuse. If skin irritation or rash

occurs: Get medical advice/attention.

First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a POISON

CENTER/doctor if you feel unwell.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects : Suspected of damaging fertility or the unborn child. May cause damage to organs through

prolonged or repeated exposure.

Symptoms/effects after inhalation : Danger of serious damage to health by prolonged exposure through inhalation. Harmful if

inhaled.

Symptoms/effects after skin contact : Causes skin irritation. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Causes eye irritation.

Symptoms/effects after ingestion : Swallowing a small quantity of this material will result in serious health hazard. Harmful if

swallowed

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Burning produces irritating, toxic and noxious fumes.

Reactivity : No dangerous reactions known.

## 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

## **SECTION 6: Accidental release measures**

## 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid all eye and skin contact and do not breathe vapour and mist. Use personal protective

equipment as required. Ensure adequate ventilation.

#### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

# 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

## 6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or

streams.

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect

spillage. Store away from other materials.

## 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

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## SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling

: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Use only outdoors or in a well-ventilated area. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid all eye and skin contact and do not breathe vapour and mist.

Hygiene measures

: Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

## 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container. Keep container tightly closed.

Incompatible products : Strong bases. Strong acids. Strong oxidizers.

Incompatible materials : Sources of ignition. Direct sunlight.

Storage area : Store in dry, cool, well-ventilated area.

#### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

Not applicable

## 8.1. Control parameters

OSHA

BATALIUM® Herbicide				
ACGIH	Not applicable			
OSHA	Not applicable			
Flucarbazone sodium (18127	74-17-9)			
ACGIH	Not applicable			
OSHA	Not applicable			
fluroxypyr-meptyl (ISO) (814	06-37-3)			
ACGIH	Not applicable			
OSHA	Not applicable			
bromoxynil octanoate (1689-	99-2)			
ACGIH	Not applicable			
OSHA	Not applicable			
Safener (trade secret)				
ACGIH	Not applicable			
OSHA	Not applicable			
Surface active agent (trade s	secret)			
ACGIH	Not applicable			
OSHA	Not applicable			
Surfactant (trade secret)				
ACGIH	Not applicable			
OSHA	Not applicable			
Polymeric ester (trade secret)				
ACGIH	Not applicable			
OSHA	Not applicable			
Petroleum distillates (trade secret)				
ACGIH	Not applicable			

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Alcohol, C10-12, ethoxylated propoxylated (68154-97-2)				
ACGIH	ACGIH Not applicable			
OSHA	Not applicable			

#### 8.2. Appropriate engineering controls

Appropriate engineering controls

: Avoid splashing. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide local exhaust or general room ventilation.

## 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

Avoid all unnecessary exposure.

#### Hand protection:

Wear suitable gloves resistant to chemical penetration. barrier laminate. Butyl rubber. Nitrile rubber. neoprene. Natural rubber. Polyethylene. PVC. Viton. (>= 14 mils)

#### Eye protection:

Chemical goggles or safety glasses

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

In case of inadequate ventilation wear respiratory protection.

#### Other information:

Viscosity, kinematic

Do not eat, drink or smoke during use.

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state : Liquid
Colour : Gray

Odour : mild characteristic
Odour threshold : No data available
pH : 4-7 (1% solution)
Melting point : No data available
Freezing point : No data available
Boiling point : No data available

Flash point : > 93 °C

: No data available Relative evaporation rate (butylacetate=1) : No data available Flammability (solid, gas) Explosive limits : No data available : No data available Explosive properties Oxidising properties No data available : No data available Vapour pressure : No data available Relative density Relative vapour density at 20 °C : No data available Density : 9.68 lb/gal @ 20 °C No data available Solubility Log Pow : No data available : No data available Log Kow Auto-ignition temperature : No data available Decomposition temperature : No data available : No data available Viscosity

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: No data available

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Viscosity, dynamic : 150 - 600 cP @ 20 °C

## 9.2. Other information

No additional information available

## **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

No dangerous reactions known.

## 10.2. Chemical stability

Stable under normal conditions.

## 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

## 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

#### 10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizers.

## 10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide.

## **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

Likely routes of exposure : Inhalation; Skin and eye contact

Acute toxicity : Not classified

BATALIUM® Herbicide			
LD50 oral rat	1030 mg/kg		
LD50 dermal rat	> 5000 mg/kg		
LC50 inhalation rat (mg/l)	> 2.14 mg/l/4h		
ATE US (oral)	1030 mg/kg bodyweight		
ATE US (dust,mist)	2.005 mg/l/4h		
Flucarbazone sodium (181274-17-9)			
LD50 oral rat	> 5000 mg/kg		
LD50 dermal rat	> 5000 mg/kg		
LC50 inhalation rat (mg/l)	> 5.13 mg/l/4h		
fluroxypyr-meptyl (ISO) (81406-37-3)			
LD50 oral rat	> 5000 mg/kg		
LD50 dermal rat	> 2000 mg/kg		
bromoxynil octanoate (1689-99-2)			
LD50 oral rat	238 mg/kg female, 400 mg/kg male		
LD50 dermal rabbit	1310 mg/kg female; > 2000 mg/kg male		
LC50 inhalation rat (mg/l)	0.72 mg/l/4h female; 0.81 mg/l/4h male		
ATE US (oral)	238 mg/kg bodyweight		
ATE US (dermal)	1310 mg/kg bodyweight		
ATE US (vapours)	0.72 mg/l/4h		
ATE US (dust,mist)	0.72 mg/l/4h		
Safener (trade secret)			
LD50 oral rat	> 2000 mg/kg		
LD50 dermal rabbit	> 2000 mg/kg		
LC50 inhalation rat (mg/l)	> 0.935 mg/l/4h		
ATE US (gases)	700 ppmv/4h		
ATE US (vapours)	3 mg/l/4h		
ATE US (dust,mist)	0.5 mg/l/4h		
Surface active agent (trade secret)			
LD50 oral rat	501 - 1000 mg/kg		
LD50 dermal rat	> 2000 mg/kg female		

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Surface active agent (trade secret)				
ATE US (oral) 501 mg/kg bodyweight				
Surfactant (trade secret)				
LD50 oral rat	> 5000 mg/kg No mortality observed			
LD50 dermal rabbit	> 2000 mg/kg Read-across category approach, no mortality observed			
Polymeric ester (trade secret)				
LD50 oral rat	> 3000 mg/kg			
LD50 dermal rabbit	> 10000 mg/kg male			
Petroleum distillates (trade secret)				
LD50 oral rat	> 5000 mg/kg			
LD50 dermal rabbit	> 2000 mg/kg			
Alcohol, C10-12, ethoxylated propoxylate	d (68154-97-2)			
LD50 oral rat	> 2000 mg/kg			
LD50 dermal rabbit	> 5000 mg/kg			
Skin corrosion/irritation	: Causes skin irritation.			
Serious eye damage/irritation	Causes eye irritation.			
Respiratory or skin sensitisation	: May cause an allergic skin reaction.			
Germ cell mutagenicity	Not classified			
Carcinogenicity	Not classified			
Reproductive toxicity	Suspected of damaging fertility or the unborn child.			
STOT-single exposure	: Not classified			
STOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure.			
Aspiration hazard	: Not classified			
Symptoms/effects after inhalation	: Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled.			
Symptoms/effects after skin contact : Causes skin irritation. May cause an allergic skin reaction.				
Symptoms/effects after eye contact	: Causes eye irritation.			
Symptoms/effects after ingestion	: Swallowing a small quantity of this material will result in serious health hazard. Harmful if swallowed.			

# **SECTION 12: Ecological information**

## 12.1. Toxicity

Ecology - water : Very toxic to aquatic life with long lasting effects.

Flucarbazone sodium (181274-17-9)	
LC50 fish 1	> 96.7 mg/l 96 h oncorhynchus mykiss
LC50 other aquatic organisms 1	6.4 mg/l 96 h green algae
EC50 Daphnia 1	38.8 mg/l 48 h
LC50 fish 2	> 99.3 mg/l 96 h bluehill
fluroxypyr-meptyl (ISO) (81406-37-3)	
LC50 fish 1	13.4 - 100 mg/l 96 h Rainbow trout
LC50 other aquatic organisms 1	> 100 mg/l 96h Onchorhynchus mykiss, Leuciscus idus
EC50 Daphnia 1	> 0.183 mg/l 48 h; > 100 mg/l 96-hr
LC50 fish 2	> 14.3 mg/l 96 h Blue gill sunfish
NOEC (chronic)	0.06 mg/l 21 day Daphnia magna
NOEC chronic fish	0.2 mg/l 21 day Oncorhynchus mykiss
Additional ecotoxicological information	solubility limit : > 0.9 mg/l
bromoxynil octanoate (1689-99-2)	
LC50 fish 1	0.041 mg/l 96 h Rainbow trout
EC50 Daphnia 1	0.046 mg/l 48 h
EC50 other aquatic organisms 1	0.043 mg/l 120 h, Algae (Navicula)
LC50 fish 2	0.06 mg/l 96 h Bluegill
EC50 other aquatic organisms 2	0.22 mg/l 120 h, Algae (Selenastrum)

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Flucarbazone sodium (181274-17-9)

Mobility in soil

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Safener (trade secret)	
LC50 fish 1	> 0.97 ppm 96 h Rainbow trout
EC50 Daphnia 1	> 0.82 ppm 48 h
NOEC (acute)	3.74 mg/l
Surface active agent (trade secret)	
LC50 fish 1	1.1 mg/l 96 h
EC50 Daphnia 1	7.07 mg/l 48 h
EC50 other aquatic organisms 1	>= 10 mg/l 72 h
LC50 fish 2	1 - 10 mg/l 96 h
Polymeric ester (trade secret)	
LC50 fish 1	27 mg/l 96 h
EC50 Daphnia 1	6.6 mg/l 48 h
EC50 Daphnia 2	10.3 mg/l 48 h
Petroleum distillates (trade secret)	
LC50 fish 1	25 mg/l 96 h Oncorhynchus mykiss
EC50 Daphnia 1	1.4 mg/l 48 h
<u> </u>	
Alcohol, C10-12, ethoxylated propoxylated	,
LC50 fish 1	2.3 mg/l 96 h
EC50 Daphnia 1	2.6 mg/l 48 h
2.2. Persistence and degradability	
BATALIUM® Herbicide	
Persistence and degradability	Not established.
fluroxypyr-meptyl (ISO) (81406-37-3)	
Persistence and degradability	Not expected to persist.
	Not expected to persist.
bromoxynil octanoate (1689-99-2)	
Persistence and degradability	Not expected to persist.
Safener (trade secret)	
Persistence and degradability	Not readily biodegradable.
Surfactant (trade secret)	
Persistence and degradability	Readily biodegradable.
Biodegradation	75 % 29 d
Polymeric ester (trade secret)	
Biodegradation	100 % 28 d
Alcohol, C10-12, ethoxylated propoxylated	
Persistence and degradability	inherently biodegradable.
2.3. Bioaccumulative potential	
BATALIUM® Herbicide	
Bioaccumulative potential	Not established.
Flucarbazone sodium (181274-17-9)	
Bioconcentration factor (BCF REACH)	3 (estimated)
Safener (trade secret)	
Bioconcentration factor (BCF REACH)	877
Surfactant (trade secret)	
BCF fish 1	2.41
	<u> </u>
Log Pow	> 6.2

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mobile in soil; Koc = 36 (estimated)

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fluroxypyr-meptyl (ISO) (81406-37-3)		
Ecology - soil	Slightly mobile in soil.	
bromoxynil octanoate (1689-99-2)		
Ecology - soil	Very mobile.	

#### 12.5. Other adverse effects

Other information : Avoid release to the environment.

## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

#### **SECTION 14: Transport information**

#### **Department of Transportation (DOT)**

In accordance with DOT

Transport document description : UN3082 Environmentally hazardous substances, liquid, n.o.s. (bromoxynil octanoate,

fluroxypyr-meptyl (ISO)), 9, III

UN-No.(DOT) : UN3082

Proper Shipping Name (DOT) : Environmentally hazardous substances, liquid, n.o.s.

bromoxynil octanoate, fluroxypyr-meptyl (ISO)

Transport hazard class(es) (DOT) : 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140

Packing group (DOT) : III - Minor Danger

Hazard labels (DOT) : 9 - Class 9 (Miscellaneous dangerous materials)



Dangerous for the environment : Yes
Marine pollutant : Yes



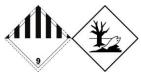
Other information : Non-bulk (<= 119 gallons / 450 Liters) Not Regulated; Bulk (> 119 gallons / 450 Liters)

Regulated as stated.

## Transport by sea

#### **IMDG**

Transport hazard class(es) (IMDG) :



Marine pollutant : Yes UN-No. (IMDG) : 3082

Transport document description (IMDG) : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bromoxynil

octanoate, fluroxypyr-meptyl (ISO)), 9, III, MARINE POLLUTANT

Class (IMDG) : 9 - Miscellaneous dangerous substances and articles

Packing group (IMDG) : III - substances presenting low danger

EmS-No. (Fire) : F-A EmS-No. (Spillage) : S-F

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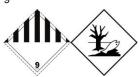
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#### Air transport

IATA

Transport hazard class(es) (IATA) : 9



Marine pollutant : Yes UN-No. (IATA) : 3082

Transport document description (IATA) : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bromoxynil octanoate, fluroxypyr-meptyl (ISO)), 9, III

Class (IATA) : 9 - Miscellaneous Dangerous Goods

Packing group (IATA) : III - Minor Danger

## **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

bromoxynil octanoate		CAS-No. 1689-99-2	35.17%		
Flucarbazone sodium (181274-17-9)					
Not listed on the United States TSCA (Toxic Sub-	stances Control A	ct) inventory			
EPA TSCA Regulatory Flag	Exempt from TS	CA Regulation under FIFRA Secti	on 3 (2)(B)(ii) when used as a pesticide.		
fluroxypyr-meptyl (ISO) (81406-37-3)					
EPA TSCA Regulatory Flag	Exempt from TS	CA Regulation under FIFRA Secti	on 3 (2)(B)(ii) when used as a pesticide.		
bromoxynil octanoate (1689-99-2)					
Listed on the United States TSCA (Toxic Substar	nces Control Act) i	nventory			
Safener (trade secret)					
Listed on the United States TSCA (Toxic Substances Control Act) inventory					
Surface active agent (trade secret)					
Listed on the United States TSCA (Toxic Substances Control Act) inventory					
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under Chemical Data Reporting Rule (formerly the Inventory Update Reporting Rule), i.e, Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 711).				
Surfactant (trade secret)					
Listed on the United States TSCA (Toxic Substances Control Act) inventory					
Polymeric ester (trade secret)					
Listed on the United States TSCA (Toxic Substar	Listed on the United States TSCA (Toxic Substances Control Act) inventory				

# Petroleum distillates (trade secret)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on the United States TSCA (Toxic Substances Control Act) inventory

EPA TSCA Regulatory Flag

XU - XU - indicates a substance exempt from reporting under Chemical Data Reporting Rule (formerly the Inventory Update Reporting Rule), i.e, Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 711).

FIFRA Labelling

FIFRA Signal Word

EPA Registration Number 66330-434

This chemical is a pesticide product registered by the United States 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 (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

Caution

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FIFRA Labelling	
FIFRA Human Health Hazards	Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.
FIFRA First Aid	Avoid contact with skin, eyes, 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.
FIFRA Environmental Hazards	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 when weather conditions favor drift from areas treated. Do not contaminate water when disposing of equipment washwater or rinsate. Do not allow sprays to drift onto adjacent desirable plants.
FIFRA Physical Hazard	Do not mix or come into contact with oxidizing agents. Hazardous chemical reaction may occur.

## 15.2. International regulations

#### **CANADA**

## Flucarbazone sodium (181274-17-9)

Not listed on the Canadian DSL (Domestic Substances List) inventory.

# fluroxypyr-meptyl (ISO) (81406-37-3)

Not listed on the Canadian DSL (Domestic Substances List) inventory.

## bromoxynil octanoate (1689-99-2)

Listed on the Canadian NDSL (Non-Domestic Substances List)

#### Safener (trade secret)

Not listed on the Canadian DSL (Domestic Substances List) inventory.

#### Surface active agent (trade secret)

Listed on the Canadian DSL (Domestic Substances List) inventory.

#### Surfactant (trade secret)

Listed on the Canadian DSL (Domestic Substances List) inventory.

## Polymeric ester (trade secret)

Listed on the Canadian DSL (Domestic Substances List) inventory.

## Alcohol, C10-12, ethoxylated propoxylated (68154-97-2)

Listed on the Canadian DSL (Domestic Substances List) inventory.

#### 15.3. US State regulations



This product can expose you to Silicon dioxide (cristobalite), which is known to the State of California to cause cancer, and bromoxynil octanoate, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Component	Carcinogenicity	Developmental toxicity	Reproductive toxicity male	Reproductive toxicity female	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
bromoxynil octanoate(1689-99-2)		X				
Silicon dioxide (cristobalite)(14808- 60-7)	Х					

Component	State or local regulations
bromoxynil octanoate(1689-99-2)	U.S Delaware - Pollutant Discharge Requirements - Reportable Quantities U.S New Jersey - Right to Know Hazardous Substance List

## **SECTION 16: Other information**

Revision date : 03/27/2019

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## Safety Data Sheet

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Data sources

: European Chemicals Agency (ECHA) Registered Substances list. Accessed at http://echa.europa.eu/. Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition. National Fire Protection Association. Fire Protection Guide to Hazardous Materials; 10th edition. OSHA 29CFR 1910.1200 Hazard Communication Standard. REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. TSCA Chemical Substance Inventory. Accessed at

http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html.

Other information

: None.

#### Full text of H-statements:

xt of H-statements:	
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Eye Irrit. 2B	Serious eye damage/eye irritation, Category 2B
Flam. Liq. 3	Flammable liquids, Category 3
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H320	Causes eye irritation
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

## Abbreviations and acronyms:

viations and actoriyins.	
	ACGIH (American Conference of Government Industrial Hygienists)
	ATE: Acute Toxicity Estimate
	CAS (Chemical Abstracts Service) number
	CLP: Classification, Labelling, Packaging.
	EC50: Environmental Concentration associated with a response by 50% of the test population.
	GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).
	LD50: Lethal Dose for 50% of the test population
	OSHA: Occupational Safety & Health Administration
	TSCA: Toxic Substances Control Act

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NFPA health hazard : 2 - Materials that, under emergency conditions, can cause

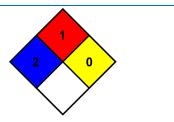
temporary incapacitation or residual injury.

NFPA fire hazard : 1 - Materials that must be preheated before ignition can

occur.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions,

and not reactive with water.



Indication of changes:
Product registered trademark

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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