

SECTION 1: Identification**1.1. Identification**

Product form	: Mixture
Trade name	: EVEREST® 2.0 HERBICIDE
Other means of identification	: EPA Reg. No 66330-391 PMRA Reg. No. 30342

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

Use of the substance/mixture	: 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	Arysta LifeScience Canada, Inc. 400 Michener Road, Unit 2 Guelph, Ontario N1K 1E4
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1.4. Emergency telephone number

Emergency number	: Exposure calls (PROPHARMA): 1-866-303-6952 or +1-651-603-3432 (international) Spill calls (CHEMTREC) (Contract # CCN179): +1-800-424-9300 or +1-703-527-3887 (international)
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SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****GHS classification**

Serious eye damage/eye irritation, Category 2B H320
Full text of H statements : see section 16

2.2. Label elements**GHS labelling**

Signal word (GHS)	: Warning
Hazard statements (GHS)	: H320 - Causes eye irritation
Precautionary statements (GHS)	: P264 - Wash hands thoroughly after handling P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P337+P313 - If eye irritation persists: Get medical advice/attention

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS)

3% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)
3.13% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)
3.13% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

SECTION 3: Composition/information on ingredients**3.1. Substance**

Not applicable

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3.2. Mixture

Name	Product identifier	% (w/w)	GHS classification
Flucarbazone sodium (Main constituent)	(CAS No) 181274-17-9	35	Not classified
Cloquintocet-mexyl	(CAS No) 99607-70-2	7.5	Acute Tox. 3 (Inhalation), H331 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Alcohols, C12-15, ethoxylated	(CAS No) 68131-39-5	0.5 - 1	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Aquatic Acute 1, H400
5-methoxy-4-methyl-2,4-dihydro-3H-1,2,4-triazol-3-one	(CAS No) 135302-13-5	0.13	Skin Sens. 1, H317

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 you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
- First-aid measures after skin contact : Wash with plenty of soap and water.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- First-aid measures after ingestion : Immediately call a POISON CENTER or doctor/physician. Drink plenty of water.

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

- Symptoms/injuries after inhalation : In high concentrations : Irritation of the respiratory tract and the other mucous membranes.
- Symptoms/injuries after eye contact : Causes eye irritation.
- Symptoms/injuries after ingestion : Like any product not designed to be ingested, this product may cause stomach distress if ingested in large quantities.

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 : Carbon dioxide. Dry powder. Foam. Water fog.
- Unsuitable extinguishing media : None known.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : No particular fire or explosion hazard.
- Reactivity : No dangerous reactions known.

5.3. Advice for firefighters

- Firefighting instructions : Cool adjacent structures and containers with water spray to protect and prevent ignition. Exercise caution when fighting any chemical fire. Do not allow run-off from fire fighting to enter drains or water courses.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Use self-contained breathing apparatus. Wear fire/flame resistant/retardant clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Avoid contact with skin and eyes. Avoid creating or spreading dust.

6.1.1. For non-emergency personnel

- Protective equipment : Chemical goggles or safety glasses.
- Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

- Protective equipment : Chemical goggles or safety glasses.
- Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters.

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6.3. Methods and material for containment and cleaning up

- For containment : Sweep or shovel into suitable containers. Avoid generating dust.
- Methods for cleaning up : Following recovery, flush area with water. Clean surface thoroughly to remove residual contamination. Take up in non-combustible absorbent material and shove into container for disposal.

6.4. Reference to other sections

Section 13: disposal information. Section 7: safe handling. Section 8: personal protective equipment.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Avoid breathing mist, spray, vapours.
- Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Do not store near food, foodstuffs, drugs, or potable water supplies. Store in a dry, cool and well-ventilated place.
- Incompatible products : None known.

7.3. Specific end use(s)

Herbicide.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

EVEREST® 2.0 HERBICIDE	
ACGIH	Not applicable
OSHA	Not applicable
Flucarbazone sodium (181274-17-9)	
ACGIH	Not applicable
OSHA	Not applicable
5-methoxy-4-methyl-2,4-dihydro-3H-1,2,4-triazol-3-one (135302-13-5)	
ACGIH	Not applicable
OSHA	Not applicable
Alcohols, C12-15, ethoxylated (68131-39-5)	
ACGIH	Not applicable
OSHA	Not applicable
Cloquintocet-mexyl (99607-70-2)	
ACGIH	Not applicable
OSHA	Not applicable

8.2. Exposure controls

- Appropriate engineering controls : Avoid creating mist or spray. Avoid splashing. Either local exhaust or general room ventilation is usually required.
- Personal protective equipment : Avoid all unnecessary exposure.
- Hand protection : In case of repeated or prolonged contact wear gloves.
- Eye protection : Chemical goggles or safety glasses.
- Respiratory protection : In case of inadequate ventilation wear respiratory protection. Use an approved respirator equipped with oil/mist cartridges.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Liquid
- Colour : Off-white
- Odour : mild characteristic

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Odour threshold	: No data available
pH	: 7.5 - 8.5
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 93 °C
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Vapour pressure	: No data available
Relative density	: No data available
Relative vapour density at 20 °C	: No data available
Density	: 1.197 g/ml
Solubility	: No data available
Log Pow	: No data available
Log Kow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 750 - 1000 cP

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

None known.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Likely routes of exposure : Skin and eye contact; Inhalation

Acute toxicity : Not classified

EVEREST® 2.0 HERBICIDE	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 2.08 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

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5-methoxy-4-methyl-2,4-dihydro-3H-1,2,4-triazol-3-one (135302-13-5)	
LD50 oral rat	> 2500 mg/kg
Alcohols, C12-15, ethoxylated (68131-39-5)	
LD50 oral rat	375 mg/kg
LD50 dermal rat	2500 mg/kg
ATE US (oral)	375.000 mg/kg bodyweight
ATE US (dermal)	2500.000 mg/kg bodyweight
Cloquintocet-mexyl (99607-70-2)	
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)	700.000 ppmv/4h
ATE US (vapours)	3.000 mg/l/4h
ATE US (dust,mist)	0.500 mg/l/4h

Skin corrosion/irritation	: Not classified (Slightly irritating to skin)
Serious eye damage/irritation	: Causes eye irritation.
Respiratory or skin sensitisation	: Not classified. (No sensitizing reaction was observed for guinea pigs)
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: In high concentrations : Irritation of the respiratory tract and the other mucous membranes.
Symptoms/injuries after eye contact	: Causes eye irritation.
Symptoms/injuries after ingestion	: Like any product not designed to be ingested, this product may cause stomach distress if ingested in large quantities.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water : 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
5-methoxy-4-methyl-2,4-dihydro-3H-1,2,4-triazol-3-one (135302-13-5)	
LC50 fish 1	> 100 mg/l
Alcohols, C12-15, ethoxylated (68131-39-5)	
LC50 fish 1	0.59 mg/l 96 h Pleuronectes platessa
Cloquintocet-mexyl (99607-70-2)	
LC50 fish 1	> 0.97 ppm 96 h Rainbow trout
EC50 Daphnia 1	> 0.82 ppm 48 h
NOEC (acute)	3.74 mg/l

12.2. Persistence and degradability

EVEREST® 2.0 HERBICIDE	
Persistence and degradability	May cause long-term adverse effects in the environment.
Cloquintocet-mexyl (99607-70-2)	
Persistence and degradability	Not readily biodegradable.

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12.3. Bioaccumulative potential

EVEREST® 2.0 HERBICIDE	
Bioaccumulative potential	Not established.
Flucarbazone sodium (181274-17-9)	
Bioconcentration factor (BCF REACH)	3 (estimated)
Cloquintocet-mexyl (99607-70-2)	
Bioconcentration factor (BCF REACH)	877

12.4. Mobility in soil

EVEREST® 2.0 HERBICIDE	
Ecology - soil	No additional information available.
Flucarbazone sodium (181274-17-9)	
Mobility in soil	mobile in soil; Koc = 36 (estimated)

12.5. Other adverse effects

Other information : No additional information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Sewage disposal recommendations : Do not dispose of waste into sewer.
Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Disposal via incineration is recommended.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT
Not regulated

Additional information

Other information : No supplementary information available.

TDG

Not regulated

Transport by sea

IMDG

Transport hazard class(es) (IMDG) : 9



Marine pollutant : Yes
UN-No. (IMDG) : 3082
Transport document description (IMDG) : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cloquintocet-mexyl), 9, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS
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

Air transport

IATA

Transport hazard class(es) (IATA) : 9

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Marine pollutant	: Yes
UN-No. (IATA)	: 3082
Transport document description (IATA)	: UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Cloquintocet-mexyl), 9, III, ENVIRONMENTALLY HAZARDOUS
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

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

Flucarbazono sodio (181274-17-9)

EPA TSCA Regulatory Flag Exempt from TSCA Regulation under FIFRA Section 3 (2)(B)(ii) when used as a pesticide

Alcohols, C12-15, ethoxylated (68131-39-5)

EPA TSCA Regulatory Flag XU - XU - indicates a substance exempt from reporting under the Inventory Update Reporting Rule, i.e, Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(C))

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.:

EPA Registration Number	66330-391
FIFRA Signal Word	CAUTION / PRECAUCIÓN
FIFRA Hazard Statement	Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing.
FIFRA Other	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 washwaters or rinseate. Do not allow sprays to drift onto adjacent desirable plants.

15.2. International regulations

CANADA

Flucarbazono sodio (181274-17-9)

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

5-methoxy-4-methyl-2,4-dihydro-3H-1,2,4-triazol-3-one (135302-13-5)

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

Alcohols, C12-15, ethoxylated (68131-39-5)

Listed on the Canadian DSL (Domestic Substances List) inventory

Cloquintocet-mexyl (99607-70-2)

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

EU-Regulations

Flucarbazono sodio (181274-17-9)

Not listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

5-methoxy-4-methyl-2,4-dihydro-3H-1,2,4-triazol-3-one (135302-13-5)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Alcohols, C12-15, ethoxylated (68131-39-5)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

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Cloquintocet-mexyl (99607-70-2)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National regulations

Flucarbazone sodium (181274-17-9)

Not listed on the Canadian Non-Domestic Substances List (NDSL)

Alcohols, C12-15, ethoxylated (68131-39-5)

Listed on the AICS (Australian Inventory of Chemical Substances)

Cloquintocet-mexyl (99607-70-2)

Not listed on the Canadian Non-Domestic Substances List (NDSL)

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

Revision date	: 02/07/2017
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.

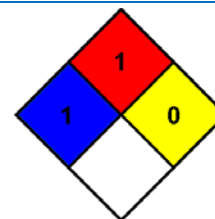
Full text of H-statements:

H302	Harmful if swallowed
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H320	Causes eye irritation
H331	Toxic if inhaled
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

Abbreviations and acronyms:

	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

NFPA health hazard	: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.
NFPA fire hazard	: 1 - 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:
Identification

SDS Prepared by: The Redstone Group, LLC.

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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