

SECTION 1: Identification

1.1. Identification

Product form : Mixture
 Product name : EVEREST® 3.0
 PMRA# 32602

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

Recommended use : Herbicide
 Restrictions on use : Must not come into contact with food or be consumed.

1.3. Details of the supplier of the safety data sheet

Manufacturer

Arysta LifeScience Canada, Inc.
 400 Michener Road, Unit 2
 Guelph, Ontario N1K 1E4 - Canada
 T 1-866-761-9397
sds@arysta.com

1.4. Emergency telephone number

Emergency number : FOR 24-HOUR MEDICAL EMERGENCY ASSISTANCE CALL PROPHARMA: 1-866-303-6952
 or +1-651-603-3432
 FOR 24-HOUR CHEMICAL EMERGENCY (Spill, leaks, fire, exposure or accident) call
 CHEMTREC: 1-800-424-9300 or +1-703-527-3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

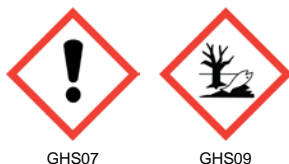
GHS classification

Skin sensitisation, Category 1 H317
 Hazardous to the aquatic environment — Chronic Hazard, Category 2 H411
 Full text of H statements : see section 16

2.2. Label elements

GHS labelling

Hazard pictograms (GHS) :



Signal word (GHS) :

Warning

Hazard statements (GHS) :

H317 - May cause an allergic skin reaction.
 H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (GHS) :

P261 - Avoid breathing mist, vapours.
 P272 - Contaminated work clothing must not be allowed out of the workplace
 P273 - Avoid release to the environment.
 P280 - Wear protective gloves, eye protection, protective clothing.
 P302+P352 - If on skin: Wash with plenty of soap, water
 P321 - Specific treatment (see First aid measures on this label)
 P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
 P363 - Wash contaminated clothing before reuse.
 P391 - Collect spillage.
 P501 - Dispose of contents/container to Collection point

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS)

No additional information available

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SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	% (w/w)	GHS classification
Surfactant 2	(CAS-No.) trade secret	35 – 45	Eye Irrit. 2B, H320
Flucarbazone sodium (Main constituent)	(CAS-No.) 181274-17-9	20.6	Not classified
Surface Active Agent	(CAS-No.) trade secret	3 – 7	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318
Cloquintocet-mexyl (Main constituent)	(CAS-No.) 99607-70-2	4.1	Acute Tox. 3 (Inhalation), H331 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Emulsifier 1	(CAS-No.) trade secret	1 – 5	Eye Dam. 1, H318 Aquatic Acute 1, H400
Surfactant 1	(CAS-No.) trade secret	1 – 5	Skin Irrit. 2, H315 Eye Dam. 1, H318

*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 medical advice is needed, have product container or label at hand.
- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
- First-aid measures after skin contact : Wash with plenty of water/... If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
- 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 : Do NOT induce vomiting. Rinse mouth. Get medical advice/attention.

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

- Symptoms/effects after skin contact : May cause an allergic skin reaction. May cause slight irritation.
- Symptoms/effects after eye contact : May cause slight irritation.
- Symptoms/effects after ingestion : Diarrhea. Nausea. Vomiting.

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 chemical. Foam. Water fog.
- Unsuitable extinguishing media : Do not use a heavy water stream.

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. Do not allow run-off from fire fighting to enter drains or water courses. Evacuate area.
- Protection during firefighting : Wear a 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 all eye and skin contact and do not breathe vapour and mist.

6.1.1. For non-emergency personnel

- Protective equipment : Refer to section 8.2.
- Emergency procedures : Evacuate unnecessary personnel.

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6.1.2. For emergency responders

- Protective equipment : Refer to section 8.2.
Emergency procedures : Ventilate area. Stop leak if safe to do so.

6.2. Environmental precautions

Do not discharge into drains or the environment. Do not allow large quantities, as are, to spread into the environment. Do not discharge into drains or rivers. Notify authorities if liquid enters sewers or public waters.

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. Do not allow minor leaks or spills to accumulate on walking surfaces. Stop leak if safe to do so.
Methods for cleaning up : Absorb and/or contain spill with inert material, then place in suitable container. Following recovery, flush area with water. Clean surface thoroughly to remove residual contamination. Notify authorities if product enters sewers or public waters.

6.4. Reference to other sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Avoid all eye and skin contact and do not breathe vapour and mist. Use personal protective equipment as required. Use only outdoors or in a well-ventilated area.
Hygiene measures : Remove contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Always wash your hands immediately after handling this product, and once again before leaving the workplace.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Do not store near food, foodstuffs, drugs, or potable water supplies. Keep container closed when not in use.
Incompatible products : Oxidizing agent.
Prohibitions on mixed storage : Incompatible materials.
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

8.1. Control parameters

EVEREST® 3.0	
ACGIH	Not applicable
OSHA	Not applicable
Flucarbazone sodium (181274-17-9)	
ACGIH	Not applicable
OSHA	Not applicable
Cloquintocet-mexyl (99607-70-2)	
ACGIH	Not applicable
OSHA	Not applicable
Emulsifier 1 (trade secret)	
ACGIH	Not applicable
OSHA	Not applicable
Surfactant 1 (trade secret)	
ACGIH	Not applicable
OSHA	Not applicable
Surface Active Agent (trade secret)	
ACGIH	Not applicable

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Surface Active Agent (trade secret)	
OSHA	Not applicable

Surfactant 2 (trade secret)	
ACGIH	Not applicable
OSHA	Not applicable

8.2. Exposure controls

Appropriate engineering controls	: Avoid splashing. Use only outdoors or in a well-ventilated area.
Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Wear suitable gloves resistant to chemical penetration, nitrile rubber gloves, neoprene gloves, Butyl rubber gloves, natural rubber gloves. (>= 14 mils).
Eye protection	: In case of splashing or aerosol production: protective goggles.
Skin and body protection	: Wear suitable protective clothing. Long sleeved protective clothing.
Respiratory protection	: In case of inadequate ventilation wear respiratory protection. Use an approved respirator equipped with oil/mist cartridges. If needed, use an air-purifying respirator with organic vapor cartridges and a dust/mist prefilter.
Environmental exposure controls	: Prevent leakage or spillage. Prevent contaminated water run-off.
Consumer exposure controls	: Keep out of reach of children.
Other information	: Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Beige
Odour	: mild characteristic
Odour threshold	: No data available
pH	: 6.53 (1% suspension)
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 93 °C
Relative evaporation rate (butylacetate=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	: 1.0211 g/ml @ 25 °C
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	: 575 mPa.s @ 25 °C

9.2. Other information

Additional information	: No additional information available
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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

Avoid splashing. Ensure there is adequate ventilation.

10.5. Incompatible materials

Oxidizing agent.

10.6. Hazardous decomposition products

None under normal use.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Likely routes of exposure : Inhalation; Skin and eye contact

Acute toxicity : Not classified

EVEREST® 3.0	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 2.18 mg/l
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
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 ppmv/4h
ATE US (vapours)	3 mg/l/4h
ATE US (dust,mist)	0.5 mg/l/4h
Emulsifier 1 (trade secret)	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 100 mg/m ³ 6 h
Surfactant 1 (trade secret)	
LD50 oral rat	> 3000 mg/kg
LD50 dermal rabbit	> 10000 mg/kg male
Surface Active Agent (trade secret)	
LD50 oral rat	501 - 1000 mg/kg
LD50 dermal rat	> 2000 mg/kg female
ATE US (oral)	501 mg/kg bodyweight
Surfactant 2 (trade secret)	
LD50 oral rat	> 5000 mg/kg No mortality observed
LD50 dermal rabbit	> 2000 mg/kg Read-across category approach, no mortality observed

Skin corrosion/irritation : Not classified
(Slightly irritant but not relevant for classification)

Serious eye damage/irritation : Not classified.
(Slightly irritant but not relevant for classification)

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Respiratory or skin sensitisation	: May cause an allergic skin reaction. (Positive)
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/effects after skin contact	: May cause an allergic skin reaction. May cause slight irritation.
Symptoms/effects after eye contact	: May cause slight irritation.
Symptoms/effects after ingestion	: Diarrhea. Nausea. Vomiting.

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
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
Emulsifier 1 (trade secret)	
NOEC (chronic)	> 0.33 mg/l 30 d
Surfactant 1 (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
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

12.2. Persistence and degradability

EVEREST® 3.0	
Persistence and degradability	May cause long-term adverse effects in the environment.
Cloquintocet-mexyl (99607-70-2)	
Persistence and degradability	Not readily biodegradable.
Emulsifier 1 (trade secret)	
Persistence and degradability	Readily biodegradable.
Surfactant 1 (trade secret)	
Biodegradation	100 % 28 d
Surfactant 2 (trade secret)	
Persistence and degradability	Readily biodegradable.
Biodegradation	75 % 29 d

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12.3. Bioaccumulative potential

EVEREST® 3.0	
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
Surfactant 2 (trade secret)	
BCF fish 1	2.41
Log Pow	> 6.2

12.4. Mobility in soil

EVEREST® 3.0	
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.
Additional information : Notify authorities if product enters sewers or public waters.
Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

Transportation of Dangerous Goods

For Small Means of Containment (<=450 L) Not Regulated

For Large Means of Containment (>450 L):

Transport document description : UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cloquintocet-mexyl), 9, III
UN-No. (TDG) : UN3082
Proper Shipping Name (Transportation of Dangerous Goods) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
TDG Primary Hazard Classes : 9 - Class 9 - Miscellaneous Products, Substances or Organisms
Packing group : III - Minor Danger
Marine pollutant : Yes



Transport by sea

IMDG

Transport hazard class(es) (IMDG) : 9



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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
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



Marine pollutant	: Yes
UN-No. (IATA)	: 3082
Transport document description (IATA)	: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cloquintocet-mexyl), 9, III
Class (IATA)	: 9 - Miscellaneous Dangerous Goods
Packing group (IATA)	: III - Minor Danger

SECTION 15: Regulatory information

Surfactant 2 (trade secret)

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

Flucarbazone sodium (181274-17-9)

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

Surface Active Agent (trade secret)

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

Cloquintocet-mexyl (99607-70-2)

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

Emulsifier 1 (trade secret)

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

Surfactant 1 (trade secret)

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

SECTION 16: Other information

Revision date	: 11/03/2017
Data sources	: ACGIH (American Conference of Government Industrial Hygienists). Component Supplier SDSs. European Chemicals Agency (ECHA) C&L Inventory database. Accessed at http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database . Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition. Manufacturer Information. National Fire Protection Association. Fire Protection Guide to Hazardous Materials; 10th edition. NIOSH Occupational Health Guide for chemical Substances - Vol. II, September, 1978. OSHA 29CFR 1910.1200 Hazard Communication Standard. TSCA Chemical Substance Inventory. Accessed at http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html .
Other information	: None.

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Full text of H-statements:

H302	Harmful if swallowed.
H315	Causes skin irritation.
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.
H411	Toxic to aquatic life with long lasting effects.

Abbreviations and acronyms:

	ATE: Acute Toxicity Estimate
	CAS (Chemical Abstracts Service) number
	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
	STEL: Short Term Exposure Limits
	TSCA: Toxic Substances Control Act
	TWA: Time Weighted Average

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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