

SECTION 1: Identification

1.1. Identification

Product form : Mixture
 Product name : EVEREST® 3.0
 Other means of identification : EPA Reg. No. 66330-429

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 North America, LLC
 15401 Weston Parkway, Suite 150
 Cary, NC 27513 - USA

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-US classification

Skin Sens. 1 H317
 Aquatic Chronic 2 H411
 Full text of H statements : see section 16

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US) :



GHS07

GHS09

Signal word (GHS-US) : Warning
 Hazard statements (GHS-US) : H317 - May cause an allergic skin reaction.
 H411 - Toxic to aquatic life with long lasting effects.
 Precautionary statements (GHS-US) : 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 US)

0.03% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)
 0.11% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)
 0.11% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

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SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	% (w/w)	GHS-US 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
Surfact 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
Surfact Active Agent (trade secret)	
ACGIH	Not applicable

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Surfact 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

Surfact 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
Surfact 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

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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

Department of Transportation (DOT)

In accordance with DOT

Non bulk (<= 119 gal / 450 L) : Not regulated

Bulk (> 119 gal / 450 L):

Transport document description : UN3082 Environmentally hazardous substances, liquid, n.o.s. (Cloquintocet-mexyl), 9, III

UN-No.(DOT) : UN3082

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

Packing group (DOT) : III - Minor Danger

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



Dangerous for the environment : Yes

Marine pollutant : Yes



Additional information

Emergency Response Guide (ERG) Number : 171

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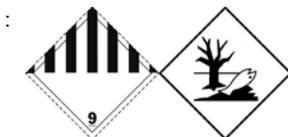
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Other information : No supplementary information available.

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. (Cloquintocetmexyl), 9, III, MARINE POLLUTANT

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

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

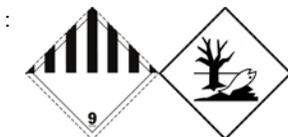
EmS-No. (Fire) : F-A

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. (Cloquintocetmexyl), 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

Flucarbazon sodium (181274-17-9)

EPA TSCA Regulatory Flag	Exempt from TSCA Regulation under FIFRA Section 3 (2)(B)(ii) when used as a pesticide.
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Emulsifier 1 (trade secret)

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)).
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Surfact Active Agent (trade secret)

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)).
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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.:

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EPA Registration Number	66330-429
FIFRA Signal Word	CAUTION
FIFRA Hazard Statement	Harmful if absorbed through skin. Avoid contact with skin, eyes, or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Wear long-sleeved shirt and long pants, socks, shoes, and chemical resistant gloves. Remove and wash contaminated clothing before reuse.
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 washwater or rinsate. Do not allow sprays to drift onto adjacent desirable plants. Do not mix or come into contact with oxidizing agents. Hazardous chemical reaction may occur.

15.2. International regulations

No additional information available

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	: 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/quest/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.

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:

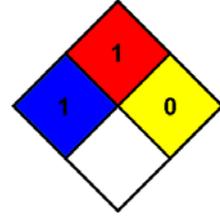
	ATE: Acute Toxicity Estimate
	CAS (Chemical Abstracts Service) number
	EC50: Environmental Concentration associated with a response by 50% of the test population.
	GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).
	LD50: Lethal Dose for 50% of the test population
	OSHA: Occupational Safety & Health Administration
	STEL: Short Term Exposure Limits
	TSCA: Toxic Substances Control Act
	TWA: Time Weighted Average

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- NFPA health hazard : 1 - Materials that, under emergency conditions, can cause significant irritation.
- 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:

Composition/information on ingredients.

SDS Prepared by: The Redstone Group, LLC.
6077 Frantz Rd
Suite 206
Dublin, Ohio, USA 43016
614.923.7472
www.redstonegrp.com

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