

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 |
|------------------------------|-------------|

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 400 Michener Road, Unit 2 Guelph, Ontario N1K 1E4 |
|---|---|

1.4. Emergency telephone number

| | |
|------------------|--|
| Emergency number | : Exposure Calls (PROSAR): +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 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

EVEREST® 2.0 HERBICIDE

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations, Canada Hazardous Product Regulation (HPR)

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.

EVEREST® 2.0 HERBICIDE

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations, Canada Hazardous Product Regulation (HPR)

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

EVEREST® 2.0 HERBICIDE

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations, Canada Hazardous Product Regulation (HPR)

| | |
|---|---------------------|
| 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 |

EVEREST® 2.0 HERBICIDE

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations, Canada Hazardous Product Regulation (HPR)

| 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. |

EVEREST® 2.0 HERBICIDE

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations, Canada Hazardous Product Regulation (HPR)

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

EVEREST® 2.0 HERBICIDE

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations, Canada Hazardous Product Regulation (HPR)



| | |
|---------------------------------------|---|
| 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.

Flucarbazone sodium (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)) |
|--------------------------|--|

15.2. International regulations

CANADA

Flucarbazone sodium (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

Flucarbazone sodium (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)

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

EVEREST® 2.0 HERBICIDE

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations, Canada Hazardous Product Regulation (HPR)

15.4. US EPA - FIFRA Regulations

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labelling 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.

| | |
|------------------------------|--|
| Signal word (FIFRA) | : CAUTION. |
| Hazard statements (FIFRA) | : Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. |
| 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 washwaters or rinsate. Do not allow sprays to drift onto adjacent desirable plants. |
| Physical or Chemical hazards | : None |

SECTION 16: Other information

| | |
|-------------------|--|
| Revision date | : 05/19/2016 |
| 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/tscaiinventory/howto.html . |
| Other information | : None. |

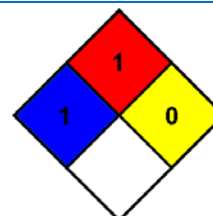
Full text of H-statements:

| | |
|------|--|
| 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:

Physical and chemical properties.

SDS Prepared by: The Redstone Group, LLC.

EVEREST® 2.0 HERBICIDE

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations, Canada Hazardous Product Regulation (HPR)

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