

AEROSOL CONTACT INSECTICIDE

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : AEROSOL CONTACT INSECTICIDE

Other means of identification : Not applicable

Recommended use : Insecticide

Restrictions on use : Reserved for industrial and professional use.

Product dilution information : Product is sold ready to use.

Company : Ecolab Inc.
1 Ecolab Place
St. Paul, Minnesota USA 55102
1-866-444-7450

Emergency health information : 1-800-328-0026 (US/Canada), 1-651-222-5352 (outside US)

Issuing date : 01/28/2019

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable aerosols : Category 2

Gases under pressure : Compressed gas

Acute toxicity (Oral) : Category 4

Specific target organ systemic toxicity - single exposure : Category 3 (Central nervous system)

GHS label elements

Hazard pictograms :



Signal Word : Caution

Hazard Statements : Flammable aerosol.
Contains gas under pressure; may explode if heated.
Harmful if swallowed.
May cause drowsiness or dizziness.

Precautionary Statements : **Prevention:**
Keep away from heat/sparks/open flames/hot surfaces. No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Avoid breathing dust/fume/ gas/ mist/ vapors/ spray. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Intentional misuse by deliberate inhalation may be harmful or fatal.

Response:
IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor if you feel

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unwell. Rinse mouth.

Storage:

Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

Disposal:

Dispose of contents/ container to an approved waste disposal plant.

Other hazards : None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture : Mixture

| Chemical name | CAS-No. | Concentration (%) |
|---|------------|-------------------|
| distillates (petroleum), hydrotreated light | 64742-47-8 | 10 - 30 |
| propane | 74-98-6 | 5 - 10 |
| Butane | 106-97-8 | 5 - 10 |
| Piperonyl Butoxide | 51-03-6 | 2 |
| Pyrethrins | 121-21-1 | 0.4 |

SECTION 4. FIRST AID MEASURES

- In case of eye contact : Rinse with plenty of water.
- In case of skin contact : Rinse with plenty of water.
- If swallowed : Rinse mouth. Get medical attention if symptoms occur.
- If inhaled : Remove to fresh air. Treat symptomatically. Get medical attention if symptoms occur.
- Protection of first-aiders : If potential for exposure exists refer to Section 8 for specific personal protective equipment.
- Notes to physician : Treat symptomatically.
- Most important symptoms and effects, both acute and delayed : See Section 11 for more detailed information on health effects and symptoms.

SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire fighting : Pressurised container: May burst if heated.
Flammable aerosols
- Hazardous combustion products : Decomposition products may include the following materials:
Carbon oxides
Nitrogen oxides (NOx)
Sulfur oxides
Oxides of phosphorus

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Special protective equipment for fire-fighters : Use personal protective equipment.

Specific extinguishing methods : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Do not allow contact with soil, surface or ground water.

Methods and materials for containment and cleaning up : Stop leak if safe to do so.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Do not ingest. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Use only with adequate ventilation. Contents under pressure. Do not puncture. Wash hands thoroughly after handling.

Conditions for safe storage : Keep in a cool, well-ventilated place. Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers.

Storage temperature : 5 °C to 45 °C

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

| Components | CAS-No. | Form of exposure | Permissible concentration | Basis |
|---|------------|------------------|--|-----------|
| distillates (petroleum), hydrotreated light | 64742-47-8 | TWA | 500 ppm 2,000 mg/m ³ | OSHA Z1 |
| | | TWA | 200 mg/m ³ (as total hydrocarbon vapor) | ACGIH |
| | | TWA (Mist) | 5 mg/m ³ | OSHA Z1 |
| | | TWA (Mist) | 5 mg/m ³ | NIOSH REL |
| propane | 74-98-6 | STEL (Mist) | 10 mg/m ³ | NIOSH REL |
| | | TWA | 1,000 ppm 1,800 mg/m ³ | NIOSH REL |
| | | TWA | 1,000 ppm 1,800 mg/m ³ | OSHA Z1 |
| Butane | 106-97-8 | TWA | 800 ppm 1,900 mg/m ³ | NIOSH REL |
| | | STEL | 1,000 ppm | ACGIH |

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

Personal protective equipment

Eye protection : No special protective equipment required.

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| | |
|------------------------|--|
| Hand protection | : No special protective equipment required. |
| Skin protection | : No special protective equipment required. |
| Respiratory protection | : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. |
| Hygiene measures | : Handle in accordance with good industrial hygiene and safety practice. |

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|--|
| Appearance | : aerosol |
| Color | : colorless |
| Odor | : slight |
| pH | : Not applicable |
| Flash point | : closed cup Not applicable, Sustains combustion |
| Odor Threshold | : No data available |
| Melting point/freezing point | : No data available |
| Initial boiling point and boiling range | : > 100 °C |
| Evaporation rate | : No data available |
| Flammability (solid, gas) | : No data available |
| Upper explosion limit | : No data available |
| Lower explosion limit | : No data available |
| Vapor pressure | : No data available |
| Relative vapor density | : No data available |
| Relative density | : No data available |
| Water solubility | : No data available |
| Solubility in other solvents | : No data available |
| Partition coefficient: n-octanol/water | : No data available |
| Autoignition temperature | : No data available |
| Thermal decomposition | : No data available |
| Viscosity, kinematic | : 360.000 mm ² /s (40 °C) |
| Explosive properties | : No data available |
| Oxidizing properties | : The substance or mixture is not classified as oxidizing. |
| Molecular weight | : No data available |
| VOC | : No data available |

SECTION 10. STABILITY AND REACTIVITY

| | |
|--------------------------|---|
| Chemical stability | : Stable under normal conditions. |
| Possibility of hazardous | : No dangerous reaction known under conditions of normal use. |

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reactions

- Conditions to avoid : None known.
- Incompatible materials : None known.
- Hazardous decomposition products : Decomposition products may include the following materials:
Carbon oxides
Nitrogen oxides (NOx)
Sulfur oxides
Oxides of phosphorus

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Eye contact, Skin contact

Potential Health Effects

- Eyes : Health injuries are not known or expected under normal use.
- Skin : Health injuries are not known or expected under normal use.
- Ingestion : Harmful if swallowed.
- Inhalation : Inhalation may cause central nervous system effects. Intentional misuse by deliberate inhalation may be harmful or fatal.
- Chronic Exposure : Health injuries are not known or expected under normal use.

Experience with human exposure

- Eye contact : No symptoms known or expected.
- Skin contact : No symptoms known or expected.
- Ingestion : No information available.
- Inhalation : Dizziness, Drowsiness

Toxicity

Product

- Acute oral toxicity : No data available
- Acute inhalation toxicity : No data available
- Acute dermal toxicity : No data available
- Skin corrosion/irritation : No data available
- Serious eye damage/eye irritation : No data available
- Respiratory or skin sensitization : No data available

Carcinogenicity

IARC : No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

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OSHA No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive effects : No data available

Germ cell mutagenicity : No data available

Teratogenicity : No data available

STOT-single exposure : No data available

STOT-repeated exposure : No data available

Aspiration toxicity : No data available

Components

Acute oral toxicity : distillates (petroleum), hydrotreated light
LD50 Rat: > 5,000 mg/kg

Pyrethrins
LD50 Rat: 1,413 mg/kg

Components

Acute inhalation toxicity : Butane
4 h LC50 Rat: 280000 ppm
Test atmosphere: gas

Pyrethrins
4 h LC50 Rat: 3.4 mg/l
Test atmosphere: dust/mist

Components

Acute dermal toxicity : Pyrethrins
LD50 Rabbit: > 2,000 mg/kg

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Environmental Effects : This product has no known ecotoxicological effects.

Product

Toxicity to fish : No data available

Toxicity to daphnia and other aquatic invertebrates : No data available

Toxicity to algae : No data available

Components

Toxicity to fish : distillates (petroleum), hydrotreated light
96 h LC50: > 1,000 mg/l

Butane
96 h LC50 Fish: 22.03 mg/l

Pyrethrins

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96 h LC50: 0.0051 mg/l

Components

Toxicity to daphnia and other aquatic invertebrates : distillates (petroleum), hydrotreated light
48 h EC50: > 1,000 mg/l

Components

Toxicity to algae : distillates (petroleum), hydrotreated light
72 h EC50: > 1,000 mg/l

Persistence and degradability

Not applicable - Biocide

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods : The product should not be allowed to enter drains, water courses or the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Disposal considerations : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers. Dispose of in accordance with local, state, and federal regulations.

SECTION 14. TRANSPORT INFORMATION

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (DOT)

UN number : 1950
Description of the goods : Aerosols
Class : 2.1
Environmentally hazardous : no

Sea transport (IMDG/IMO)

UN number : 1950
Description of the goods : AEROSOLS
Class : 2.1
Marine pollutant : no

SECTION 15. REGULATORY INFORMATION

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EPA Registration number : 1021-2718-1677

1021-2718-AA-1677

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Fire Hazard
Sudden Release of Pressure Hazard
Acute Health Hazard

SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

| | | |
|--------------------|---------|-----|
| Piperonyl Butoxide | 51-03-6 | 2 % |
|--------------------|---------|-----|

California Prop. 65

WARNING! This product contains a chemical known in the State of California to cause cancer.

The ingredients of this product are reported in the following inventories:

Switzerland. New notified substances and declared preparations :

On the inventory, or in compliance with the inventory

United States TSCA Inventory :

On TSCA Inventory

Canadian Domestic Substances List (DSL) :

All components of this product are on the Canadian DSL

Australia Inventory of Chemical Substances (AICS) :

On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemical Substances :

On the inventory, or in compliance with the inventory

Japan. ENCS - Existing and New Chemical Substances Inventory :

not determined

Japan. ISHL - Inventory of Chemical Substances (METI) :

not determined

Korea. Korean Existing Chemicals Inventory (KECI) :

On the inventory, or in compliance with the inventory

Philippines Inventory of Chemicals and Chemical Substances (PICCS) :

On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances in China (IECSC) :

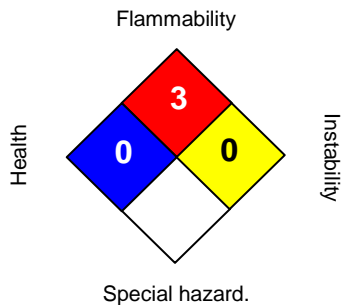
On the inventory, or in compliance with the inventory

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SECTION 16. OTHER INFORMATION

NFPA:



HMIS III:

| | |
|------------------------|----------|
| HEALTH | 2 |
| FLAMMABILITY | 3 |
| PHYSICAL HAZARD | 2 |

0 = not significant, 1 = Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Issuing date : 01/28/2019
Version : 1.3
Prepared by : Regulatory Affairs

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.