1. Identification

Product identifier used on the label

ULD BP-300 CONTACT INSECTICIDE II

Recommended use of the chemical and restriction on use

Recommended use*: insecticide

* The “Recommended use” identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

Details of the supplier of the safety data sheet

Company: BASF Canada Inc.
100 Milverton Drive
Mississauga, ON L5R 4H1, CANADA

Contact address: BASF CORPORATION
100 Park Avenue
Florham Park, NJ 07932
USA
Telephone: +1 973 245-6000

Emergency telephone number

CHEMTREC: 1-800-424-9300
BASF HOTLINE: 1-800-832-HELP (4357)

Registrant: Whitmire Micro-Gen Research Laboratories, Inc.
3568 Tree Court Industrial Blvd.
St. Louis, MO 63122

Other means of identification

Substance number: 572578
EPA Register number: 499-522
Synonyms: Pyrethrins + Piperonyl Butoxide

2. Hazards Identification


Classification of the product

Asp. Tox. 1 Aspiration hazard
Safety Data Sheet  
ULD BP-300 CONTACT INSECTICIDE II  
Revision date: 2015/04/29  
Version: 2.0  
Page: 2/13  
(30599293/SDS_CPA_US/EN)

Aquatic Acute 1  Hazardous to the aquatic environment - acute  
Aquatic Chronic 1  Hazardous to the aquatic environment - chronic

Label elements

Pictogram:

Signal Word:  
Danger

Hazard Statement:  
H304 May be fatal if swallowed and enters airways.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements (Prevention):  
P273 Avoid release to the environment.

Precautionary Statements (Response):  
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P391 Collect spillage.  
P331 Do NOT induce vomiting.

Precautionary Statements (Storage):  
P405 Store locked up.

Precautionary Statements (Disposal):  
P501 Dispose of contents/container to hazardous or special waste collection point.

Hazards not otherwise classified

Labeling of special preparations (GHS):  
Repeated exposure may cause skin dryness or cracking.  
The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 0 - 1 % dermal  
The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 0 - 1 % oral  
The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 0 - 1 % Inhalation - vapour  
The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 3 - 5 % Inhalation - mist


Emergency overview

CAUTION:  
KEEP OUT OF REACH OF CHILDREN.  
Moderately irritating to the eyes.  
Do not get in eyes, on skin, or on clothing.  
Wash thoroughly after handling.
3. Composition / Information on Ingredients


<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Content (W/W)</th>
<th>Chemical name</th>
</tr>
</thead>
<tbody>
<tr>
<td>8003-34-7</td>
<td>3.0 %</td>
<td>Pyrethrins</td>
</tr>
<tr>
<td>51-03-6</td>
<td>15.0 %</td>
<td>Piperonylbutoxide</td>
</tr>
<tr>
<td>64742-47-8</td>
<td>75.0 - 100.0 %</td>
<td>Distillates (petroleum), hydrotreated light</td>
</tr>
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<td>64742-47-8</td>
<td>&gt; 75.0 %</td>
<td>Proprietary ingredients</td>
</tr>
</tbody>
</table>

4. First-Aid Measures

Description of first aid measures

General advice:
First aid providers should wear personal protective equipment to prevent exposure. Remove contaminated clothing. Move person to fresh air. If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or physician for treatment advice. Have the product container or label with you when calling a poison control center or doctor or going for treatment.

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

If inhaled:
Keep patient calm, remove to fresh air, seek medical attention.

If on skin:
Immediately wash thoroughly with soap and water, seek medical attention.

If in eyes:
Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing.

If swallowed:
Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention. Do not induce vomiting due to aspiration hazard.

Most important symptoms and effects, both acute and delayed
Hazard: Vomiting may cause aspiration pneumonia due to the ingredients.

Indication of any immediate medical attention and special treatment needed
5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:
- foam, dry powder, water spray

Special hazards arising from the substance or mixture
Hazards during fire-fighting:
carbon monoxide, carbon dioxide, nitrogen dioxide, nitrogen oxide,
If product is heated above decomposition temperature, toxic vapours will be released. The substances/groups of substances mentioned can be released in case of fire.

Advice for fire-fighters
Protective equipment for fire-fighting:
Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Further information:
Evacuate area of all unnecessary personnel. Contain contaminated water/firefighting water. Do not allow to enter drains or waterways.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
Take appropriate protective measures. Clear area. Shut off source of leak only under safe conditions. Extinguish sources of ignition nearby and downwind. Ensure adequate ventilation. Wear suitable personal protective clothing and equipment.

Environmental precautions
Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater. Contain contaminated water/firefighting water. A spill of or in excess of the reportable quantity requires notification to state, local and national emergency authorities. This product is regulated by CERCLA (‘Superfund’).

Methods and material for containment and cleaning up
Dike spillage. Pick up with suitable absorbent material. Spilled substance/product should be recovered and applied according to label rates whenever possible. If application of spilled substance/product is not possible, then spills should be contained, solidified, and placed in suitable containers for disposal. After decontamination, spill area can be washed with water. Collect wash water for approved disposal.

7. Handling and Storage

Precautions for safe handling
RECOMMENDATIONS ARE FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS. PESTICIDE APPLICATORS & WORKERS must refer to the Product Label and Directions for Use attached to the product. Provide good ventilation of working area (local exhaust ventilation if necessary). Keep away from sources of ignition - No smoking. Keep container
8. Exposure Controls/Personal Protection

Users of a pesticidal product should refer to the product label for personal protective equipment requirements.

**Components with occupational exposure limits**

<table>
<thead>
<tr>
<th>Component</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pyrethrins</td>
<td>PEL 5 mg/m³ ; TWA value 5 mg/m³ ;</td>
<td>TWA value 5 mg/m³ ;</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated light</td>
<td>ACGIH TLV</td>
<td>TWA value 200 mg/m³ Non-aerosol (total hydrocarbon vapor); Application restricted to conditions in which there are negligible aerosol exposures. Skin Designation Non-aerosol (total hydrocarbon vapor); The substance can be absorbed through the skin.</td>
</tr>
</tbody>
</table>

**Advice on system design:**
Whenever possible, engineering controls should be used to minimize the need for personal protective equipment.

**Personal protective equipment**

RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS:
Respiratory protection:
Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator. For situations where the airborne concentrations may exceed the level for which an air purifying respirator is effective, or where the levels are unknown or Immediately Dangerous to Life or Health (IDLH), use NIOSH-certified full facepiece pressure demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied-air respirator (SAR) with escape provisions.

Hand protection:
Chemical resistant protective gloves. Protective glove selection must be based on the user's assessment of the workplace hazards.

Eye protection:
Safety glasses with side-shields. Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists.

Body protection:
Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

General safety and hygiene measures:
RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS
Wear long sleeved work shirt and long work pants in addition to other stated personal protective equipment. Work place should be equipped with a shower and an eye wash. Handle in accordance with good industrial hygiene and safety practice. Personal protective equipment should be decontaminated prior to reuse. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks). Take off immediately all contaminated clothing. Store work clothing separately. Hands and/or face should be washed before breaks and at the end of the shift. No eating, drinking, smoking or tobacco use at the place of work. Keep away from food, drink and animal feeding stuffs.

9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>liquid</td>
</tr>
<tr>
<td>Odour</td>
<td>of petroleum distillate (e.g. gasoline, kerosene)</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>Not determined due to potential health hazard by inhalation.</td>
</tr>
<tr>
<td>Colour</td>
<td>yellow</td>
</tr>
<tr>
<td>pH value</td>
<td>approx. 4.4 - 6.4</td>
</tr>
<tr>
<td>Pour point</td>
<td>-32 °C</td>
</tr>
<tr>
<td>Boiling point</td>
<td>&gt; 227 °C</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 85 °C</td>
</tr>
<tr>
<td>Flammability</td>
<td>not highly flammable</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.</td>
</tr>
</tbody>
</table>
10. Stability and Reactivity

**Reactivity**
No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals:
Corrosive effects to metal are not anticipated.

Oxidizing properties:
Based on its structural properties the product is not classified as oxidizing.

**Chemical stability**
The product is stable if stored and handled as prescribed/indicated.

**Possibility of hazardous reactions**
The product is chemically stable.

**Conditions to avoid**

**Incompatible materials**
strong acids, strong bases, strong oxidizing agents

**Hazardous decomposition products**

Decomposition products:
No hazardous decomposition products if stored and handled as prescribed/indicated. Prolonged thermal loading can result in products of degradation being given off.

Thermal decomposition:
Possible thermal decomposition products:
11. Toxicological information

Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Toxicity/Effects

Acute toxicity

Oral
Type of value: LD50
Species: rat (male/female)
Value: > 5,000 mg/kg (EPA Guideline)
No mortality was observed.

Inhalation
Type of value: LC50
Species: rat (male/female)
Value: > 2.06 mg/l
Exposure time: 4 h
An aerosol with respirable particles was tested.
No mortality was observed.

Dermal
Type of value: LD50
Species: rat (male/female)
Value: > 5,000 mg/kg (EPA OTS 798.1100)
No mortality was observed.

Irritation / corrosion
Assessment of irritating effects: May cause moderate but temporary irritation to the eyes. May cause moderate irritation to the skin.

Skin
Species: rabbit
Result: non-irritant
Method: OPP 81-5 (EPA-Guideline)

Eye
Species: rabbit
Result: non-irritant
Method: EPA Guideline

Sensitization
Assessment of sensitization: Skin sensitizing effects were not observed in animal studies.

Buehler test
Species: guinea pig
Result: Non-sensitizing.

Aspiration Hazard
May be fatal if swallowed and enters airways.

**Chronic Toxicity/Effects**

**Repeated dose toxicity**

*Information on: Piperonyl butoxide*

Assessment of repeated dose toxicity: The substance may cause damage to the liver after repeated ingestion of high doses, as shown in animal studies. The substance may cause damage to the liver after repeated inhalation of high doses. Repeated dermal uptake of the substance did not cause substance-related effects.

*Information on: Distillates (petroleum), hydrotreated light*

Assessment of repeated dose toxicity: Dermatitis The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

**Genetic toxicity**

*Information on: pyrethrum*

Assessment of mutagenicity: Mutagenicity tests revealed no genotoxic potential. The product has not been tested. The statement has been derived from the properties of the individual components. No mutagenic effects reported.

*Information on: Piperonyl butoxide*

Assessment of mutagenicity: Mutagenicity tests revealed no genotoxic potential.

*Information on: Distillates (petroleum), hydrotreated light*

Assessment of mutagenicity: The substance was not mutagenic in bacteria. The substance was not genotoxic in mammalian cell culture. The substance was not mutagenic in mammalian cell culture. The substance was not genotoxic in a test with mammals. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

**Carcinogenicity**

*Information on: pyrethrum*

Assessment of carcinogenicity: The results of various animal studies gave no indication of a carcinogenic effect. The product has not been tested. The statement has been derived from the properties of the individual components. Not Likely to Be Carcinogenic to Humans.

*Information on: Piperonyl butoxide*

Assessment of carcinogenicity: In long-term studies in rats and mice in which the substance was given by feed, a carcinogenic effect was not observed. The US EPA has classified this substance with the rating of 'C', possible human carcinogen.

**Reproductive toxicity**

*Information on: pyrethrum*

Assessment of reproduction toxicity: No reproductive toxic effects reported.
Information on: Piperonyl butoxide
Assessment of reproduction toxicity: No reproductive toxic effects reported. The results of animal studies gave no indication of a fertility impairing effect.

Teratogenicity

Information on: pyrethrum
Assessment of teratogenicity: No indications of a developmental toxic / teratogenic effect were seen in animal studies.

Information on: Piperonyl butoxide
Assessment of teratogenicity: No indications of a developmental toxic / teratogenic effect were seen in animal studies.

Information on: Distillates (petroleum), hydrotreated light
Assessment of teratogenicity: No indications of a developmental toxic / teratogenic effect were seen in animal studies. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Symptoms of Exposure

12. Ecological Information

Toxicity

Toxicity to fish

Information on: pyrethrum
LC50 (96 h) 0.0052 mg/l, Oncorhynchus mykiss (static)
LC50 (96 h) 0.01 mg/l, Lepomis macrochirus

Information on: piperonyl butoxide
LC50 (96 h) 5.37 mg/l, Lepomis macrochirus

Aquatic invertebrates

Information on: pyrethrum
EC50 (48 h) 0.012 mg/l, Daphnia magna
EC50 (48 h) 0.0014 mg/l, Mysisiposis bahia

Information on: Piperonyl butoxide
EC50 (48 h) 0.51 mg/l, Daphnia magna (other)

Aquatic plants

Information on: pyrethrum
No toxic effects occur within the range of solubility.

Information on: piperonyl butoxide
EC50 14.9 mg/l, Chlorella fusca
Chronic toxicity to fish

Information on: pyrethrum
No observed effect concentration 0.0019 mg/l, Pimephales promelas

Information on: piperonyl butoxide

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Chronic toxicity to aquatic invertebrates

Information on: pyrethrum
No observed effect concentration (28 d) 0.00086 mg/l, Daphnia magna

Information on: piperonyl butoxide

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Bioaccumulative potential

Assessment bioaccumulation potential
The product has not been tested. The statement has been derived from the properties of the individual components.

Mobility in soil

Assessment transport between environmental compartments
The product has not been tested. The statement has been derived from the properties of the individual components.

13. Disposal considerations

Waste disposal of substance:
Pesticide wastes are regulated. If pesticide wastes cannot be disposed of according to label instructions, contact the State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container disposal:
Rinse thoroughly at least three times (triple rinse) in accordance with EPA recommendations. Consult state or local disposal authorities for approved alternative procedures such as container recycling. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

14. Transport Information

Land transport
USDOT
Not classified as a dangerous good under transport regulations

Sea transport
IMDG
Hazard class: 9
Packing group: III
ID number: UN 3082
Hazard label: 9, EHSM
15. Regulatory Information

Federal Regulations

Registration status:
- Chemical: TSCA, US blocked / not listed
- Crop Protection: TSCA, US released / exempt

EPCRA 311/312 (Hazard categories): Acute; Chronic; Fire

EPCRA 313:
- CAS Number 51-03-6: Piperonylbutoxide

CERCLA RQ
- CAS Number 8003-34-7: Pyrethrins

State regulations

State RTK
- MA, NJ, PA: 8003-34-7 Pyrethrins
- NJ: 51-03-6 Piperonylbutoxide
- MA, NJ, PA: 64742-47-8 Distillates (petroleum), hydrotreated light

Labeling requirements under FIFRA

This chemical is a pesticide product registered by the 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, and workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label.

CAUTION:
KEEP OUT OF REACH OF CHILDREN.
May cause moderate but temporary irritation to the eyes.
Do not get in eyes, on skin, or on clothing.
Avoid contact with the skin, eyes and clothing.

16. Other Information

SDS Prepared by:
BASF NA Product Regulations
SDS Prepared on: 2015/04/29

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

END OF DATA SHEET