

# Safety Data Sheet

## HYDROPY-300 FORMULA 2

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Version: 2.0

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(30473002/SDS\_CPA\_CA/EN)

### 1. Identification

#### Product identifier used on the label

## HYDROPY-300 FORMULA 2

#### 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

Telephone: +1 289 360-1300

#### Emergency telephone number

CANUTEC (reverse charges): (613) 996-6666  
BASF HOTLINE: (800) 454-COPE (2673)

#### Other means of identification

PCP # 29762

Synonyms: Pyrethrins + piperonyl butoxide

### 2. Hazards Identification

#### According to Hazardous Products Regulations (HPR) (SOR/2015-17)

##### Classification of the product

|                 |                         |  |
|-----------------|-------------------------|--|
| Flam. Liq.      | 4                       | Flammable liquids                              |
| Acute Tox.      | 4 (Inhalation - vapour) | Acute toxicity                                 |
| Acute Tox.      | 4 (oral)                | Acute toxicity                                 |
| Eye Dam./Irrit. | 2B                      | Serious eye damage/eye irritation              |
| Skin Sens.      | 1B                      | Skin sensitization                             |
| Aquatic Acute   | 1                       | Hazardous to the aquatic environment - acute   |
| Aquatic Chronic | 1                       | Hazardous to the aquatic environment - chronic |

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### Label elements

Pictogram:



Signal Word:  
Warning

Hazard Statement:

|      |   |
|------|---|
| H227 | Combustible liquid.                                   |
| H320 | Causes eye irritation.                                |
| H332 | Harmful if inhaled.                                   |
| H302 | Harmful if swallowed.                                 |
| H317 | May cause an allergic skin reaction.                  |
| H400 | Very toxic to aquatic life.                           |
| H410 | Very toxic to aquatic life with long lasting effects. |

Precautionary Statements (Prevention):

|      |  |
|------|--|
| P280 | Wear protective gloves and eye/face protection.  |
| P271 | Use only outdoors or in a well-ventilated area.  |
| P273 | Avoid release to the environment.  |
| P260 | Do not breathe mist or vapour.   |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P272 | Contaminated work clothing should not be allowed out of the workplace.                         |
| P270 | Do not eat, drink or smoke when using this product.  |
| P264 | Wash with plenty of water and soap thoroughly after handling.                                  |

Precautionary Statements (Response):

|                    |  |
|--------------------|--|
| P333 + P311        | If skin irritation or rash occurs: Call a POISON CENTER or doctor/physician.   |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P304 + P340        | IF INHALED: Remove person to fresh air and keep comfortable for breathing.   |
| P303 + P362        | IF ON SKIN (or hair): Wash with plenty of soap and water.  |
| P301 + P330        | IF SWALLOWED: rinse mouth.   |
| P391               | Collect spillage.  |
| P362 + P364        | Take off contaminated clothing and wash before reuse.  |
| P337 + P311        | If eye irritation persists: Call a POISON CENTER or doctor/physician.  |
| P370 + P378        | In case of fire: Use water spray, dry powder, foam or carbon dioxide for extinction.   |

Precautionary Statements (Storage):

|             |  |
|-------------|--|
| P403 + P235 | Store in a well-ventilated place. Keep cool. |
|-------------|--|

Precautionary Statements (Disposal):

|      |   |
|------|---|
| P501 | Dispose of contents/container to hazardous or special waste collection point. |
|------|---|

### Hazards not otherwise classified

Labeling of special preparations (GHS):

The following percentage of the mixture consists of component(s) with unknown hazards regarding the acute toxicity: 9 % Inhalation - vapour

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The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 9 % Inhalation - mist

### According to Controlled Products Regulations (CPR) (SOR/88-66)

#### Emergency overview

CAUTION:

KEEP OUT OF REACH OF CHILDREN.

Harmful if swallowed.

Moderately irritating to the eyes.

Repeated or prolonged skin contact may cause allergic skin reactions in sensitive individuals.

Avoid contact with the skin, eyes and clothing.

Wash thoroughly after handling.

### 3. Composition / Information on Ingredients

#### According to Hazardous Products Regulations (HPR) (SOR/2015-17)

| <u>CAS Number</u> | <u>Content (W/W)</u> | <u>Chemical name</u>  |
|-------------------|----------------------|---|
| 8003-34-7         | 3.0 %                | Pyrethrins  |
| 51-03-6           | 15.0 %               | Piperonylbutoxide   |
| 71-36-3           | 1.0 - 3.0 %          | n-butanol   |
| 128-37-0          | 0.1 - 1.0 %          | BHT   |
| 64742-47-8        | 1.0 - 3.0 %          | Distillates (petroleum), hydrotreated light                             |
| 68953-96-8        | 3.0 - 5.0 %          | Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts |

### 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.

##### If inhaled:

Remove the affected individual into fresh air and keep the person calm.

##### If on skin:

Rinse skin immediately with plenty of water for 15 - 20 minutes.

##### 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:

Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Do not induce vomiting. Have person sip a glass of water if able to swallow.

#### Most important symptoms and effects, both acute and delayed

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Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known.

### Indication of any immediate medical attention and special treatment needed

#### Note to physician

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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## 5. Fire-Fighting Measures

### Extinguishing media

Suitable extinguishing media:  
foam, dry powder, carbon dioxide, 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.

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## 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.

### 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.

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## 7. Handling and Storage

### Precautions for safe handling

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Keep container tightly sealed. Handle and open container with care. Do not open until ready to use. Once container is opened, content should be used as soon as possible. Provide means for controlling leaks and spills. Follow label warnings even after container is emptied. Avoid all direct contact with the substance/product. Avoid contact with the skin, eyes and clothing. Avoid inhalation of dusts/mists/vapours. Wear suitable personal protective clothing and equipment.

Protection against fire and explosion:

The relevant fire protection measures should be noted. Fire extinguishers should be kept handy. Avoid all sources of ignition: heat, sparks, open flame. Avoid extreme heat. Ground all transfer equipment properly to prevent electrostatic discharge. Electrostatic discharge may cause ignition.

No special precautions necessary. The substance/product is non-combustible. Product is not explosive.

### Conditions for safe storage, including any incompatibilities

Segregate from incompatible substances. Segregate from foods and animal feeds. Segregate from textiles and similar materials.

Further information on storage conditions: Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Protect containers from physical damage. Protect against contamination. The authority permits and storage regulations must be observed. Keep away from heat. Protect from direct sunlight.

Storage stability:

May be kept indefinitely if stored properly.

If an expiry date is mentioned on the packaging/label this takes priority over the statements on storage duration in this safety data sheet.

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## 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

|           |           |  |
|-----------|-----------|--|
| n-butanol | OSHA PEL  | PEL 100 ppm 300 mg/m <sup>3</sup> ; CLV 50 ppm 150 mg/m <sup>3</sup> ; SKIN_FINAL ;<br>The substance can be absorbed through the skin. |
|           | ACGIH TLV | TWA value 20 ppm ;   |

### **Advice on system design:**

Whenever possible, engineering controls should be used to minimize the need for personal protective equipment.

### Personal protective equipment

#### **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.

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### 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. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

## 9. Physical and Chemical Properties

|                        |   |  |
|------------------------|---|--|
| Form:                  | liquid  |  |
| Odour:                 | solvent-like  |  |
| Odour threshold:       |   | Not determined due to potential health hazard by inhalation.   |
| Colour:                | light yellow  |  |
| pH value:              | approx. 4 - 6   | ( 1 %(m), 25 °C)   |
| Freezing point:        | approx. 0 °C  | Information applies to the solvent.  |
| Boiling point:         | approx. 100 °C  | Information applies to the solvent.  |
| Flash point:           | approx. > 85 °C   |  |
| Lower explosion limit: |   | 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. |
| Upper explosion limit: |   | 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. |
| Autoignition:          |   | not determined   |
| Vapour pressure:       | approx. 23 hPa  | ( 20 °C) Information applies to the solvent.   |
| Density:               | approx. 1.0157 g/cm <sup>3</sup>  | ( 20 °C)   |
| Vapour density:        |   | not applicable   |
| Thermal decomposition: | carbon monoxide, carbon dioxide, nitrogen dioxide, nitrogen oxide   |  |
|                        | Stable at ambient temperature. If product is heated above decomposition temperature toxic vapours may be released. To avoid thermal decomposition, do not overheat. |  |
| Viscosity, dynamic:    | 82 mPa.s  | ( 22 °C)   |
| Solubility in water:   |   | miscible   |
| Evaporation rate:      |   | not applicable   |
| Other Information:     |   | If necessary, information on other physical and chemical parameters is indicated in this section.  |

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### 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

Avoid all sources of ignition: heat, sparks, open flame. Avoid prolonged storage. Avoid electro-static discharge. Avoid contamination. Avoid prolonged exposure to extreme heat. Avoid extreme temperatures.

#### Incompatible materials

inorganic acids, bases, 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:

carbon monoxide, carbon dioxide, nitrogen dioxide, nitrogen oxide

Stable at ambient temperature. If product is heated above decomposition temperature toxic vapours may be released. To avoid thermal decomposition, do not overheat.

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### 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

Assessment of acute toxicity: Slightly toxic after single ingestion. Relatively nontoxic after short-term skin contact. Relatively nontoxic after short-term inhalation.

##### Oral

Type of value: LD50

Species: rat

Value: approx. 1,750 mg/kg

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### Inhalation

Type of value: LC50  
Species: rat  
Value: > 2.7 mg/l  
Exposure time: 4 h  
No mortality was observed.

### Dermal

Type of value: LD50  
Species: rat  
Value: > 5,000 mg/kg

### Irritation / corrosion

Assessment of irritating effects: May cause slight but temporary irritation to the eyes. May cause slight irritation to the skin.

### Skin

Species: rabbit  
Result: moderately irritating

### Eye

Species: rabbit  
Result: Irritant.

### Sensitization

Assessment of sensitization: Caused skin sensitization in animal studies.

modified Buehler test

Species: guinea pig  
Result: Caused skin sensitization in animal studies.

## **Chronic Toxicity/Effects**

### Repeated dose toxicity

Assessment of repeated dose toxicity: The product has not been tested. The statement has been derived from the properties of the individual components. No substance-specific organotoxicity was observed after repeated administration to animals.

### Genetic toxicity

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

### Carcinogenicity

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

### Reproductive toxicity

Assessment of reproduction toxicity: The product has not been tested. The statement has been derived from the properties of the individual components. The results of animal studies gave no indication of a fertility impairing effect.

### Teratogenicity

Assessment of teratogenicity: The product has not been tested. The statement has been derived from the properties of the individual components. Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.



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### Other Information

Misuse can be harmful to health.

### **Symptoms of Exposure**

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known.

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## **12. Ecological Information**

### **Toxicity**

#### Aquatic toxicity

Assessment of aquatic toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components. Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

#### Toxicity to fish

*Information on: pyrethrum*

*LC50 (96 h) 0.0052 mg/l, Oncorhynchus mykiss (static)*

*No observed effect concentration 0.0019 mg/l, Pimephales promelas*

*LC50 (96 h) 0.01 mg/l, Lepomis macrochirus*

*Information on: Piperonyl butoxide*

*LC50 (96 h) 6.12 mg/l, Oncorhynchus mykiss (other)*

#### Aquatic invertebrates

*Information on: pyrethrum*

*EC50 (48 h) 0.012 mg/l, Daphnia magna*

*No observed effect concentration (28 d) 0.00086 mg/l, Daphnia magna*

*EC50 (48 h) 0.0014 mg/l, Mysidopsis 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*

### **Persistence and degradability**

#### Assessment biodegradation and elimination (H2O)

Poorly biodegradable.

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

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### Assessment biodegradation and elimination (H2O)

*Information on: pyrethrum*

*Not readily biodegradable (by OECD criteria).*

*Information on: Piperonyl butoxide*

*Biodegradable.*

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

*Not readily biodegradable (by OECD criteria). Inherently biodegradable.*

### **Bioaccumulative potential**

#### Assessment bioaccumulation potential

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

#### Assessment bioaccumulation potential

*Information on: pyrethrum*

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

*Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is possible.*

*Accumulation in organisms is expected.*

#### Bioaccumulation potential

*Information on: Piperonyl butoxide*

*Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is possible.*

### **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.

*Information on: pyrethrum*

*Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.*

### **Additional information**

Other ecotoxicological advice:

Do not discharge product into the environment without control.

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### 13. Disposal considerations

**Waste disposal of substance:**

See product label for disposal and recycling instructions.

**Container disposal:**

Rinse the container or liner as needed for disposal. Add rinsate to spray tank. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

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### 14. Transport Information

**Land transport**

TDG

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  
Marine pollutant: YES  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains PYRETHRIN 1)

**Air transport**

IATA/ICAO

Hazard class: 9  
Packing group: III  
ID number: UN 3082  
Hazard label: 9, EHSM  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains PYRETHRIN 1)

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### 15. Regulatory Information

**Federal Regulations**

**Registration status:**

Chemical DSL, CA released; restriction on quantity / not listed

Crop Protection DSL, CA released / exempt

WHMIS does not apply to this product.

**THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CPR AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.**

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### 16. Other Information

**SDS Prepared by:**  
BASF NA Product Regulations  
SDS Prepared on: 2015/03/09

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.

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END OF DATA SHEET