

# Safety Data Sheet

## HYDROPY-300 FORMULA 2

Revision date : 2014/04/24  
Version: 4.0

Page: 1/13  
(30473002/SDS\_CPA\_US/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 US 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 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: 395460  
EPA Register number: 499-511  
Synonyms: Pyrethrins + piperonyl butoxide

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### 2. Hazards Identification

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

#### Classification of the product

Acute Tox.	4 (Inhalation - vapour)	Acute toxicity
Acute Tox.	4 (oral)	Acute toxicity

# Safety Data Sheet

## HYDROPY-300 FORMULA 2

Revision date : 2014/04/24

Page: 2/13

Version: 4.0

(30473002/SDS\_CPA\_US/EN)

Eye Dam./Irrit.	2B	Serious eye damage/eye irritation
Skin Sens.	1B	Skin sensitization

### Label elements

Pictogram:



Signal Word:

Warning

Hazard Statement:

H320	Causes eye irritation.
H332	Harmful if inhaled.
H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.

Precautionary Statements (Prevention):

P280	Wear protective gloves.
P271	Use only outdoors or in a well-ventilated area.
P260	Do not breathe mist or vapour.
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 victim to fresh air and keep at rest in a position comfortable for breathing.
P303 + P352	IF ON SKIN (on hair): Wash with plenty of soap and water.
P301 + P330	IF SWALLOWED: rinse mouth.
P362	Take off contaminated clothing and wash before reuse.
P337 + P311	If eye irritation persists: Call a POISON CENTER or doctor/physician.

Precautionary Statements (Disposal):

P501	Dispose of contents/container to hazardous or special waste collection point.
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### 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: 6 % dermal

The following percentage of the mixture consists of component(s) with unknown hazards regarding the acute toxicity: 6 % oral

The following percentage of the mixture consists of component(s) with unknown hazards regarding the acute toxicity: 15 % Inhalation - vapour

The following percentage of the mixture consists of component(s) with unknown hazards regarding the acute toxicity: 15 % Inhalation - mist

**According to Regulation 1994 OSHA Hazard Communication Standard: 29 CFR Part 1910.1200**

# Safety Data Sheet

## HYDROPY-300 FORMULA 2

Revision date : 2014/04/24  
Version: 4.0

Page: 3/13  
(30473002/SDS\_CPA\_US/EN)

### Emergency overview

**CAUTION:**

KEEP OUT OF REACH OF CHILDREN.

KEEP OUT OF REACH OF DOMESTIC ANIMALS.

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 Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
8003-34-7	3.0 %	Pyrethrins
64742-47-8	1.0 - 3.0 %	Distillates (petroleum), hydrotreated light
71-36-3	1.0 - 3.0 %	n-butanol

#### According to Regulation 1994 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
8003-34-7	3.0 %	Pyrethrins
51-03-6	15.0 %	Piperonyl butoxide
	<= 82.0 %	Proprietary ingredients

### 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**

# Safety Data Sheet

## HYDROPY-300 FORMULA 2

Revision date : 2014/04/24  
Version: 4.0

Page: 4/13  
(30473002/SDS\_CPA\_US/EN)

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. 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.

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# Safety Data Sheet

## HYDROPY-300 FORMULA 2

Revision date : 2014/04/24  
Version: 4.0

Page: 5/13  
(30473002/SDS\_CPA\_US/EN)

### 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 tightly sealed. Protect against heat. 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. The substance/product may be handled only by appropriately trained personnel. 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.

#### 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.

### 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

Pyrethrins	OSHA PEL	PEL 5 mg/m <sup>3</sup> ;
	ACGIH TLV	TWA value 5 mg/m <sup>3</sup> ;

#### 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

# Safety Data Sheet

## HYDROPY-300 FORMULA 2

Revision date : 2014/04/24  
Version: 4.0

Page: 6/13  
(30473002/SDS\_CPA\_US/EN)

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. 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 determined
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

# Safety Data Sheet

## HYDROPY-300 FORMULA 2

Revision date : 2014/04/24  
Version: 4.0

Page: 7/13  
(30473002/SDS\_CPA\_US/EN)

Evaporation rate: not applicable

### 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.

### 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

# Safety Data Sheet

## HYDROPY-300 FORMULA 2

Revision date : 2014/04/24

Page: 8/13

Version: 4.0

(30473002/SDS\_CPA\_US/EN)

Value: approx. 1,750 mg/kg

### 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

*Information on: pyrethrum*

*Assessment of mutagenicity: No mutagenic effects reported.*

*Information on: Piperonyl butoxide*

*Assessment of mutagenicity: Mutagenicity tests revealed no genotoxic potential.*

### Carcinogenicity

*Information on: pyrethrum*

*Assessment of carcinogenicity: 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.*



# Safety Data Sheet

## HYDROPY-300 FORMULA 2

Revision date : 2014/04/24  
Version: 4.0

Page: 9/13  
(30473002/SDS\_CPA\_US/EN)

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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.*

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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.*

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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)*

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

*Information on: Piperonyl butoxide*

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

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Aquatic invertebrates

*Information on: pyrethrum*

# Safety Data Sheet

## HYDROPY-300 FORMULA 2

Revision date : 2014/04/24  
Version: 4.0

Page: 10/13  
(30473002/SDS\_CPA\_US/EN)

*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)*  
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### Aquatic plants

*Information on: pyrethrum*  
No data available.

*Information on: piperonyl butoxide*  
*EC50 14.9 mg/l, Chlorella fusca*  
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### **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.

#### 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.*  
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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.

#### 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.*  
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#### Bioaccumulation potential

# Safety Data Sheet

## HYDROPY-300 FORMULA 2

Revision date : 2014/04/24  
Version: 4.0

Page: 11/13  
(30473002/SDS\_CPA\_US/EN)

*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:

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.

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

### Air transport

# Safety Data Sheet

## HYDROPY-300 FORMULA 2

Revision date : 2014/04/24  
Version: 4.0

Page: 12/13  
(30473002/SDS\_CPA\_US/EN)

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)

### Further information

DOT: This product is regulated if the amount in a single receptacle exceeds the Reportable Quantity (RQ). Please refer to Section 15 of this MSDS for the RQ for this product.

## 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

#### **EPCRA 313:**

<u>CAS Number</u>	<u>Chemical name</u>
71-36-3	n-butanol
51-03-6	Piperonylbutoxide

<u>CERCLA RQ</u>	<u>CAS Number</u>	<u>Chemical name</u>
5000 LBS	71-36-3	n-butanol
1 LBS	8003-34-7	Pyrethrins

### State regulations

<u>State RTK</u>	<u>CAS Number</u>	<u>Chemical name</u>
MA, NJ, PA	8003-34-7	Pyrethrins
NJ	51-03-6	Piperonyl butoxide

#### **HMIS III rating**

Health: 2 Flammability: 2 Physical hazard:

#### **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.

KEEP OUT OF REACH OF DOMESTIC ANIMALS.

HARMFUL IF SWALLOWED.

Prolonged or repeated skin contact may cause sensitization or allergic reactions.

# Safety Data Sheet

## HYDROPY-300 FORMULA 2

Revision date : 2014/04/24

Version: 4.0

Page: 13/13

(30473002/SDS\_CPA\_US/EN)

May cause moderate but temporary irritation to the eyes.  
Avoid contact with the skin, eyes and clothing.  
Wash thoroughly after handling.

### 16. Other Information

**SDS Prepared by:**

BASF NA Product Regulations

SDS Prepared on: 2014/04/24

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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