



Partners with solutions

# MATERIAL SAFETY DATA SHEET

OHP, INC.  
P.O. BOX 230, MAINLAND, PA 19451  
800-659-6745

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TRANSPORTATION EMERGENCY (24 hours a day)  
CHEMTREC: .....(800)-424-9300

EMERGENCY (24 hours a day) AND PRODUCT INFORMATION  
OHP, Inc.: .....(800)-356-4647

## Floramite® SC

EPA Registration Number: 400-508-59807

### I. PRODUCT AND COMPANY IDENTIFICATION

Product name .....: FLORAMITE® SC  
Chemical name .....: Bifenazate  
Use of substance/preparation ..: Miticide

minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice.

#### Notes to physician

ROUTES OF ENTRY .....: Eyes, skin, ingestion, inhalation, mist.

### II. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW**  
CAUTION!  
MAY CAUSE EYE IRRITATION.  
MAY CAUSE SKIN SENSITIZATION.

### V. FIRE-FIGHTING MEASURES

Flash point .....: > 219 °F

> 104 °C

Autoignition temperature .....: > 400 °C

#### Hazardous combustion

products .....: Irritating fumes.  
Oxides of carbon.  
Oxides of nitrogen.

#### Special fire fighting

procedures .....: Do not discharge extinguishing waters into streams, rivers and lakes.

#### Special protective equipment

for firefighters .....: Body covering protective clothing, full "turn-out" gear.  
Self-contained breathing apparatus.

#### Extinguishing media

##### Suitable

Large fires .....: alcohol-type foam or universal-type foams

Small fires .....: CO2  
dry chemical

Unsuitable .....: water jets

### III. COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENT	CAS#	% BY WEIGHT
Bifenazate	149877-41-8	22.6

Ingredients not precisely identified are non-hazardous and/or proprietary.

### IV. FIRST AID MEASURES

**Swallowing** .....: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

**Inhalation** .....: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

**Skin contact** .....: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

**Eye contact** .....: Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lens, if present, after the first 5

### VI. ACCIDENTAL RELEASE MEASURES

**Personal precautions** .....: Wear suitable protective equipment., Avoid contact with eyes and skin.

**Environmental precautions** ...: Prevent from entering sewer system, surface water or soil.

**Methods for cleaning up** .....: Observe government regulations.

**Small spills** .....: Absorb on inert material such as sand, earth, vermiculite.  
Collect for disposal.

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**Large spills** .....: Dike to contain spill.  
Pump excess material into suitable container  
(metal drums, metal tank, or such).

### VII. HANDLING AND STORAGE

#### HANDLING

**Handling precautions** .....: Do not get in eyes., Avoid prolonged or repeated contact with skin., Avoid breathing vapor., Use with adequate ventilation., Wash thoroughly after handling.

**Other precautions** .....: NOTE TO END-USERS:  
The employee protection recommendations on this MSDS may differ from those on the product label. For normal use of this product, always refer to the personal protective equipment requirements on the product label.

#### STORAGE

**Storage requirements** .....: Store in a cool, dry place.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### EXPOSURE LIMIT VALUES

##### PERSONAL PROTECTION

**Respiratory protection** .....: In case of insufficient ventilation, wear suitable respiratory equipment., The determination of appropriate respiratory protection is best performed, on a case by case basis, taking into consideration the exposure conditions of the particular operation., The respirator manufacturer should be consulted to ensure that the air-purifying cartridges utilized will provide adequate protection for the exposure conditions and period of wear concerned.

**Hand protection /  
protective gloves** .....: Chemical resistant protective gloves

**Eye protection** .....: Safety glasses with side shields.

**Skin protection** .....: Wear protective clothing, such as long sleeves to minimize skin contact.

**Other protective equipment** ..: Eye bath, Safety shower

#### ENGINEERING CONTROLS

**Ventilation** .....: General (mechanical) room ventilation is expected to be satisfactory. Special, local ventilation is needed at points where vapors can be expected to escape to the workplace air.

### IX. PHYSICAL AND CHEMICAL PROPERTIES

#### APPEARANCE

**Physical state** .....: Liquid  
**Color** .....: Off-white to light tan  
**Odor** .....: Characteristic

#### OTHER PROPERTIES

**Boiling point** .....: Not available  
**pH** .....: 6.9  
Concentration: 10 g/l  
**Density** .....: 1.061 g/cm<sup>3</sup>  
**Solubility in water** .....: Dispersible  
**Solubility in  
organic solvents** .....: Miscible with organic solvents

**Evaporation rate  
(Butyl Acetate=1)** .....: Similar to water

**Flash point** .....: > 219 °F  
> 104 °C

**Autoignition temperature** .....: > 400 °C

**Dynamic viscosity** .....: 83 mPa.s

**Oxidizing properties** .....: Not applicable

**Surface tension** .....: 42.1 dyn/cm at 25 °C

**Explosive properties** .....: Not applicable

### X. STABILITY AND REACTIVITY

**Stability** .....: This product is stable under normal storage and handling conditions.

**Incompatible materials** .....: Oxidizing agents.

**Hazardous combustion  
products** .....: Irritating fumes.  
Oxides of carbon.  
Oxides of nitrogen.

**Hazardous polymerization** .....: Will not occur.

### 11. TOXICOLOGICAL INFORMATION

#### Component data

**Bifenazate** .....: Acute toxicity - Swallowing:  
LD50 - Rat  
Result: > 5,000 mg/kg

#### Component data

**Bifenazate** .....: Acute toxicity - Skin absorption:  
LD50 - Rat  
Result: > 5,000 mg/kg

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### Component data

**Bifenazate** . . . . .: Acute toxicity - Inhalation:  
LC50 - Rat  
Result: > 4.4 mg/l  
Exposure time: 4 h

### Component data

**Bifenazate** . . . . .: Skin irritation -  
Skin contact:  
Species: Rabbit  
Exposure time: 4 h  
Classification: Not irritant

### Component data

**Bifenazate** . . . . .: Eye irritation - Eye contact:  
Species: Rabbit  
Classification: Not irritant

### Component data

**Bifenazate** . . . . .: Sensitization: Species:  
Guinea pigs  
Result: Positive

### MUTAGENICITY:

**Component (Bifenazate)** . . .: Negative

### CARCINOGENICITY

**Component (Bifenazate)** . . .: Negative

### TOXICITY TO REPRODUCTION/FERTILITY

**Component(Bifenazate)** . . .: Negative

## XII. ECOLOGICAL INFORMATION

### Component ecotoxicology

#### Bifenazate

**Acute toxicity fish** . . . . .: LC50 - Rainbow trout  
(Oncorhynchus mykiss)  
Result: 0.76 mg/l  
Exposure time: 96 h

### Component ecotoxicology

#### Bifenazate

**Acute toxicity fish** . . . . .: LC50 - Bluegill  
(Lepomis macrochirus)  
Result: 0.58 mg/l  
Exposure time: 96 h

### Component ecotoxicology

#### Bifenazate

**Aquatic toxicity to plants** . . .: EC50 - Selenastrum  
capricornutum  
Result: 0.89 mg/l

### Component ecotoxicology

#### Bifenazate

**Acute toxicity to aquatic invertebrates** . . . . .: LC50 - Water flea  
(Daphnia magna)  
Result: 0.5 mg/l  
Exposure time: 48 h

## XII. DISPOSAL CONSIDERATIONS

**General** . . . . .: Dispose of in accordance with appropriate Federal, State, and local regulations., Avoid discharge to sewers and natural waters.

## XIV. TRANSPORT INFORMATION

**DOT Classification** . . . . .: Not regulated if shipped or transported in containers less than 450 liters.

### IMDG Classification

**Proper shipping name** . . . . .: Environmentally hazardous substance, liquid, n.o.s.

**Class** . . . . .: 9

**Subsidiary risk** . . . . .: marine pollutant

**UN ID #** . . . . .: UN 3082

**Packing group** . . . . .: III

**Technical description** . . . . .: (Bifenazate)

### ICAO Classification

**Proper shipping name** . . . . .: Environmentally hazardous substance, liquid, n.o.s.

**Class** . . . . .: 9

**UN ID #** . . . . .: UN 3082

**Packing group** . . . . .: III

**Technical description** . . . . .: (Bifenazate)

Only regulated by air Into, Out of or Within the United States in containers 881.8 lbs (400 kg) or greater.

## XV. REGULATORY INFORMATION

Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) requires notification of the National Response Center of release of quantities of hazardous substances equal to or greater than the reportable quantities (RQ's) in 40CFR302.4.

Components present in this product at a level which could require reporting under the statute are:

\*\*\*\* NONE \*\*\*\*

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual reports of release of toxic chemicals that appear in 40CFR372 (for SARA 313). This information must be included in MSDS's that are copied and distributed for this material.

Components present in this product at a level which could require reporting under the statute are:

\*\*\*\* NONE \*\*\*\*

For New Jersey Worker and Community Right-To-Know Act (Labeling Requirements) information please contact the Product Safety and Regulatory Affairs Department of the Chemtura Corporation.

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### EPA Hazard Categories

(SARA 311, 312) .....: Immediate Health Hazard

### California Proposition 65

\*\*\*\* NONE \*\*\*\*

### CHEMICAL INVENTORY

**Canada** .....: This product is exempt from the New Substances Notification Regulations under CEPA when used as a component in a registered pesticide formulation., PCP# 27924

**United States** .....: This product is subject to regulation under the US Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) and is therefore exempt from TSCA Inventory listing requirements.

**Food contact** .....: Not applicable

### XVI. OTHER INFORMATION

RECOMMENDED USES AND RESTRICTIONS: NOTE TO END-USERS: This MSDS is being provided to all interested persons in accordance with federal and state right-to-know laws. Precautionary Statements, First Aid Statements and

Directions for Use of this product by end-users are contained on the product label and must be followed at all times.

**STP** .....: Standard temperature and pressure

**W/W** .....: Weight/Weight

**0 (HMIS)** .....: No hazard

**1 (HMIS)** .....: Slight hazard

**2 (HMIS)** .....: Moderate hazard

**3 (HMIS)** .....: Serious hazard

**4 (HMIS)** .....: Severe hazard

**X (HMIS)** .....: Personal protection rating to be supplied by user depending on use conditions

THE OPINIONS EXPRESSED HEREIN ARE THOSE OF QUALIFIED EXPERTS WITHIN OHP, Inc. WE BELIEVE THAT THE INFORMATION CONTAINED HEREIN IS CURRENT AS OF THE DATE OF THIS SAFETY DATA SHEET. SINCE THE USE OF THIS INFORMATION AND OF THESE OPINIONS AND THE CONDITIONS OF USE OF THIS PRODUCT ARE NOT WITHIN THE CONTROL OF OHP, Inc., IT IS THE USER'S OBLIGATION TO DETERMINE THE CONDITIONS OF SAFE USE OF THE PRODUCTS

