

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.

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

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

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.

MATERIAL SAFETY DATA SHEET

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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/cm³
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

MATERIAL SAFETY DATA SHEET

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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

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

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

