



 Version:
 1.1

 DATE OF ISSUE:
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 03/25/2006

## **1. PRODUCT AND COMPANY IDENTIFICATION**

Product name :	FLORAMITE® SC
Chemical name:	Bifenazate Acaricide
Use of substance/preparation:	No specific information.
Supplier:	Chemtura USA Corporation Chemtura Corporation (Worldwide HQ) 199 Benson Road Middlebury, CT 06749 USA
Emergency telephone number	CHEMTREC (24 hours) 800-424-9300 Chemtura Corporation Emergency Response (24 hours) 800-292-5898 For additional emergency telephone numbers see section 16 of the Safety Data Sheet.
Environmental, Health and Safety	<b>Department:</b> 866-430-2775

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

% BY WEIGHT

Bifenazate CAS# 149877-41-8

## **3. HAZARDS IDENTIFICATION**

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

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## 4. 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.

#### 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. Wash skin with soap and water., Remove contaminated clothing., Wash clothing before re-use., Obtain medical attention if irritation persists.

#### 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. Remove to fresh air., Obtain medical attention. Remove to fresh air., Give artificial respiration if not breathing., Obtain medical attention.

#### 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 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice. Immediately flush eyes with water and continue washing for at least 15 minutes., Obtain medical attention.

## Notes to physician

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

## **5. FIRE-FIGHTING MEASURES**

219 °F

Flash point: Autoignition temperature: **104** °C > 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.



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Self-contained breathing apparatus.

#### **Extinguishing media** Suitable: Large fi

Large fires: - alcohol-type foam or universal-type foams Small fires: - CO2 - dry chemical

Unsuitable: - water jets

## 6. 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.

- <u>Small spills</u> Absorb on inert material such as sand, earth, vermiculite. Collect for disposal.
- Large spills Dike to contain spill. Pump excess material into suitable container (metal drums, metal tank, or such).

## 7. 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.



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# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

## **EXPOSURE LIMIT VALUES**

No other exposure limits have been established

## PERSONAL PROTECTION

#### **Respiratory protection**

Self-contained breathing apparatus in high vapor concentrations.

## 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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

## APPEARANCE

Physical state	Liquid
Color	Off-white to light tan
Odor	Characteristic
OTHER PROPERTIES Boiling point	Not available
рН	6.9 Concentration: 10 g/l
Density Solubility in water	1.061 g/cm3 Dispersible
Solubility in organic solvents	Miscible with organic solvents
Evaporation rate (Butyl	Similar to water

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Acetate=1)	
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

# **10. 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
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Component data Bifenazate Acute toxicity - Skin absorption:	LD50 - Rabbit Result: > 5,000 mg/kg
Component data Bifenazate Acute toxicity - Inhalation:	LC50 - Rat Result: > 4.4 mg/l Exposure time: 4 h
Component data	Species: Rabbit

Component data	Species: Rabbit
Bifenazate	Exposure time: 4 h
Skin irritation - Skin contact:	Classification: Not irritant





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Component data Bifenazate Eye irritation - Eye contact:	Species: Rabbit Classification: Not irritant
Component data	Species: Guinea pigs
Bifenazate	Result: Positive

MUTAGENICITY <u>Component</u> (Bifenazate): Negative CARCINOGENICITY <u>Component</u> (Bifenazate): Negative

Sensitization:

## **TOXICITY TO REPRODUCTION/FERTILITY** <u>**Component(Bifenazate):** Negative</u>

# **12. ECOLOGICAL INFORMATION**

Component ecotoxicology	LC50 - Rainbow trout (Oncorhynchus mykiss)
Bifenazate	Result: 0.58 mg/l
Acute toxicity fish:	Exposure time: 96 h
Component ecotoxicology	LC50 - Bluegill (Lepomis macrochirus)
Bifenazate	Result: 0.58 mg/l
Acute toxicity fish:	Exposure time: 96 h
Component ecotoxicology	EC50 - Selenastrum capricornutum
<b>Bifenazate</b>	Result: 0.9 mg/l
Aquatic toxicity to plants:	Exposure time: 96 h
Component ecotoxicology Bifenazate Acute toxicity to aquatic invertebrates:	LC50 - Water flea (Daphnia magna) Result: 0.5 mg/l Exposure time: 48 h

## **13. DISPOSAL CONSIDERATIONS**

General:

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

#### Non-cleaned packages

Empty drums should be decontaminated and either passed to an an approved drum reconditioner or destroyed., Containers that cannot be cleaned must be treated as waste.





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## **14. TRANSPORT INFORMATION**

## **DOT Classification**

Not regulated by ground or rail if shipped or transported in containers less than 450 liters.

Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Class:	9
UN ID #:	UN3082
Packing group:	III
marine pollutant:	MARINE POLLUTANT

Not regulated by ground or rail if shipped or transported in containers less than 450 liters. **IMDG Classification** 

Proper shipping name: Class:	Environmentally hazardous substance, liquid, n.o.s. 9
Subsidiary risk:	marine pollutant
UN ID #:	UN 3082
Packing group:	III

## **ICAO Classification**

Proper shipping name:	Environmentally hazardous substance, liquid, n.o.s.
Class:	9
UN ID #:	UN 3082
Packing group:	III

## **15. 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 \*\*\*\*

## New Jersey Worker and Community Right-To-Know Act (Labeling Requirements)

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.

EPA Hazard Categories (SARA 311, 312): Immediate Health Hazard



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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.

## **FDA**

#### **Food contact** Not applicable

## **16. 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. **FURTHER INFORMATION** 

MAY BE ON THE INVENTORY LIST BUT NOT NECESSARILY REGISTERED, (Korea, China, New Zealand) CONSULT REGULATORY SPECIALIST.

Emergency Telephone Numbers		
Latin America:	All	+44 (0)208 762 8322

Standard temperature and pressure	
0 (HMIS)	
Slight hazard	
Moderate hazard	
Serious hazard	Copyright
Severe hazard	2005
Personal protection rating to be supplied by user depending on use conditions	Chemtura Corporati on
	0 (HMIS) Slight hazard Moderate hazard Serious hazard Severe hazard Personal protection rating to be supplied by user depending on use

# THE OPINIONS EXPRESSED HEREIN ARE THOSE OF QUALIFIED EXPERTS WITHIN CHEMTURA CORPORATION. WE BELIEVE THAT THE INFORMATION CONTAINED HEREIN IS CURRENT AS OF THE DATE OF THIS SAFETY



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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 CHEMTURA CORPORATION, IT IS THE USER'S OBLIGATION TO DETERMINE THE CONDITIONS OF SAFE USE OF THE PRODUCTS.