

FLORAMITE[®] SC

EPA Registration Number: 400-508-59807

1.	PRODUCT AND COMPANY IDENTIFICATION
	Product name FLORAMITE® SC
	EPA Registration No : 400-508-59807
	Chemical nature Miticide
	Recommended use of the chemical and restrictions on use
	Recommended use : Plant protection agent
	Restrictions on use : Agriculture, For professional users only.
	Company information: OHP, Inc. PO Box 51230 Mainland, PA 19451 (800) 659-6745
	Emergency telephone number
	TRANSPORTATION EMERGENCY
	(24 hours a day) call: Chemtrec: 1-800-424-9300
	MEDICAL EMERGENCY (24 hours a day) and Product Information call 1-800-356-4647
	SDS Information or Request
2.	HAZARDS IDENTIFICATION
	Emergency Overview
	WARNING!
	Appearance liquid
	Colour off-white, to, tan
	Odour: slight, sweet
	Hazard Summary : May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects.
	OSHA Regulatory status : This material is hazardous
	under the criteria of the Federal OSHA Hazard Com- munication Standard 29CFR 1910.1200.
	GHS Classification
	Skin sensitisation: Category 1
	Acute aquatic toxicity: Category 2
	Chronic aquatic toxicity: Category 2

GHS Label element

Hazard pictograms:



Signal word: Warning

Hazard statements

- H317 May cause an allergic skin reaction.
- H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

Prevention:

- P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P273 Avoid release to the environment.
- P280 Wear protective gloves.

Response:

- P302 + IF ON SKIN: Wash with plenty of soap and P352 water.
- P333 + If skin irritation or rash occurs: Get medical
- P313 advice/ attention.
- P363 Wash contaminated clothing before reuse.
- P391 Collect spillage.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Potential Health Effects

Skin	May cause allergic skin
	reaction.

Aggravated Medical

Condition: None known.

Symptoms of

Overexposure. : sensitising effects

Carcinogenicity:

IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.



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NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance /	Mixture.				.:	Mixture
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Chemical nature. Miticide

Hazardous components

Chemical		Concentration
Name	CAS-No.	(%)
Bifenazate	149877-41-8	>= 20 - < 30

4. FIRST AID MEASURES

If inhaled	Call a POISON CENTER
	or doctor/ physician.

In case of skin contact: Remove contaminated clothing and shoes.

Call a POISON CENTER or doctor/ physician.

- In case of eye contact : Call a POISON CENTER or doctor/ physician.
- If swallowed Call a physician or poison control center immediately.

Do not induce vomiting without medical advice.

Notes to physician. : The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Extinguishing media - large fires Alcohol-resistant foam (on small fires) Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media.	: Water spray jet
Specific hazards during fire-fighting	: No information available.
	: Use extinguishing mea- to local circumstances and nt.
Further information	: Prevent fire extinguishing

Further information: Prevent fire extinguishing water from contaminating surface water or the ground water system.

Special protective equipment

for firefighters In the event of fire, wear self-contained breathing apparatus. Complete suit protecting against chemicals Full protective flameproof clothing

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures . . .: Wear suitable protective equipment.

Avoid contact with skin and eyes.

Environmental

precautions: Do not allow material to contaminate ground water system.

Methods and materials for containment and

cleaning up.....: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
 Keep in suitable, closed containers for disposal.
 Dam up.

Large spills should be collected mechanically (remove by pumping) for disposal.

In accordance with local and national regulations.

7. HANDLING AND STORAGE

Advice on safe handling...: Avoid inhalation, ingestion and contact with skin and eyes. Use only in area provided with appropriate exhaust ventilation.

Wash thoroughly after handling.

Conditions for safe

storage Keep in a dry, cool place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures . . . : effective ventilation in all processing areas

Ensure that eyewash stations and safety showers are close to the workstation location.



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Personal protective equipment

Respiratory protection ...: When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hand protection

Remarks	 	 Impervious	gloves
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Eye protection	:	Safety glasses with
		side-shields

Skin and body protection .: impervious clothing

Hygiene measures....: Ensure adequate ventilation, especially in confined areas. Remove and wash contaminated clothing before reuse.

Handle in accordance with good industrial hygiene and safety practice.

Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance liquid
Colour
Odour slight, sweet
Odour Threshold No data available
pH
Melting point/range Not applicable
Boiling point/boiling
range
Flash point
Evaporation rate No data available
Upper explosion limit: Not explosive
Lower explosion limit : Not explosive
Vapour pressure No data available
Relative vapour density: No data available
Relative density : 1.050 - 1.070 (25 °C)
Density > 1 g/cm3
Solubility(ies)
Water solubility dispersible
Solubility in other solvents: Description: miscible with most organic solvents
Partition coefficient: n-octanol/water: No data available

Auto-ignition temperature .: > 399 °C
Decomposition temperature No data available
Viscosity
Viscosity, dynamic: 300 - 700 mPa.s (20 °C)
Viscosity, kinematic: No data available
Explosive properties : Not explosive
Self-Accelerating decomposition temperature (SADT): Method: No information available.
Surface tension 42.1 mN/m, 25 °C
Oxidising potential : The substance or mixture is not classified as oxidizing.

10. STABILITY AND REACTIVITY

Reactivity No dangerous reaction known under conditions of normal use.
Chemical stability: Stable under normal conditions.
Possibility of hazardous
reactions Hazardous polymerisation does not occur.
Conditions to avoid : Extremes of temperature and direct sunlight.
Incompatible materials: Oxidizing agents
Hazardous decomposition
products: Carbon oxides
Nitrogen oxides (NOx)

11. TOXICOLOGICAL INFORMATION

Acute toxicity	
Product:	
Acute oral toxicity	: LD50 (Rat, male): > 5,000 mg/kg GLP: yes
	LD50 (Rat, female): > 2,000 mg/kg GLP: yes
Acute inhalation toxicity	: LC50 (Rat): > 1.94 mg/l Exposure time: 4 h Test atmosphere: dust/mist GLP: yes



..... OECD Test Guideline 404

.....: OECD Test Guideline 405

..... May cause sensitisation by skin contact.

..... Maximisation Test (GPMT)

..... May cause sensitisation by skin contact. OECD Test Guideline 406

Metabolic activation: with

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Assessment: The substance or mixture has no inhalation toxicity Remarks: An LC50/inhalation/4h/rat could not termined because no mortality of rats was ob at the maximum achievable concentration.	Result No skin irritation
	served GLP yes Serious eye damage/eye irritation
Acute dermal toxicity: LD50 Dermal (Rab > 5,000 mg/kg	
GLP: yes	Species Rabbit
Components:	Result No eye irritation
Bifenazate:	GLP yes
Acute oral toxicity: LD50 (Rat, male ar	Components:
female): > 5,000 m	
Method: OECD Tes Guideline 401	Species Rabbit
GLP: yes	Result No eye irritation
LD50 (Mouse, male	
female): > 5,000 m Method: OECD Tes	
Guideline 401	GLP yes
GLP: yes	Respiratory or skin sensitisation
Acute inhalation	Product:
toxicity LC50 (Rat, male ar female): > 4.4 mg/l	Species Guinea pig
Exposure time: 4 h Test atmosphere:	Assessment May cause sensitisation by skin contact.
dust/mist Method: OECD Tes	GLP yes
Guideline 403	Components:
GLP: yes Assessment: The substance or mixture has no	Bifenazate:
inhalation toxicity	Test Type Maximisation Test (GP
Remarks: An LC50/inhalation/4h/rat could not	
termined because no mortality of rats was ob at the maximum achievable concentration.	by skin contact.
Acute dermal toxicity : LD50 (Rat, male ar female): > 5,000 m	
Method: OECD Tes	
Guideline 402 GLP: yes	Germ cell mutagenicity
Skin corrosion/irritation	Components:
Product:	Bifenazate:
Species Rabbit	Genotoxicity in vitro : Test Type: Ames test
Result	Metabolic activation: with and without
GLP yes	metabolic activation
Components:	Result: negative
Bifenazate:	GLP: yes
	: Test Type: In Vitro mammalian Cell Gene
Species Rabbit Exposure time 4 h	Mutation Test Metabolic activation:



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Genotoxicity in vivo	and without metabolic activation Result: negative GLP: yes : Test Type: Chromosome aberration test in vitro Metabolic activation: with and without metabolic activation Result: negative GLP: yes : Test Type: In vivo micronucleus test	Components: Bifenazate: Assessment: Based on available data, the classification criteria are not met. 12. ECOLOGICAL INFORMATION Ecotoxicity Product: Toxicity to fish: LC50 (Oncorhynchus mykiss (rainbow trout)): 1.4 mg/l Exposure time: 96 h
Species: Mouse Result: negative GLP: yes	Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.4 mg/l Exposure time: 48 h	
- Assessment		Toxicity to algae : EC50 (Algae): 1.3 mg/l Exposure time: 72 h
Carcinogenicity		Components:
Components:		Bifenazate:
Bifenazate: Carcinogenicity - Assessment show any carcinogenic e	0	Toxicity to fish: LC50 (Lepomis macrochirus (Bluegill sunfish)): 0.58 mg/l Exposure time: 96 h
Reproductive toxicity		Test Type:
Components:		flow-through test GLP: yes
Bifenazate: Reproductive toxicity - Assessment	: No toxicity to reproduction No effects on or via lactation	LC50 (Oncorhynchus mykiss (rainbow trout)): 0.76 mg/l Exposure time: 96 h Test Type: flow-through test GLP: yes
Product:		Toxicity to daphnia and other
	vailable data, the classifica-	aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.5 mg/l Exposure time: 48 h
Components:		Test Type:
Bifenazate: Assessment: Based on a tion criteria are not met.	vailable data, the classifica-	flow-through test GLP: yes
		LC50 (Crassostrea virgi- nica): 0.42 mg/l
STOT - repeated exposure Product: Assessment: Based on available data, the classification criteria are not met.		Exposure time: 96 h Test Type: flow-through test GLP: yes



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Toxicity to algae			GLP: yes
	> 3.82 mg/l Exposure time: 7 d Analytical monitoring: yes GLP: yes		ErC50 (Anabaena flos aquae (cyanobacteri- um)): > 4.48 mg/l Exposure time: 96 h
	NOEC (Lemna gibba): > 3.82 mg/l	GLP: yes	
	Exposure time: 7 d Analytical monitoring: yes GLP: yes		costatum): 0.2 mg/l Exposure time: 96 h GLP: yes
	NOEC (Selenastrum capricornutum (green algae)): 0.25 mg/l Exposure time: 96 h GLP: yes		EbC50 (Skeletonema costatum): 0.3 mg/l Exposure time: 96 h GLP: yes
	ErC50 (Selenastrum capricornutum (green algae)): > 2.02 mg/l Exposure time: 96 h GLP: yes	M-Factor (Acute	ErC50 (Skeletonema costatum): 0.36 mg/l Exposure time: 96 h GLP: yes
		aquatic toxicity)	: 1
	EbC50 (Selenastrum capricornutum (green algae)): 0.9 mg/l Exposure time: 96 h GLP: yes	Toxicity to fish (Chronic toxicity)	mykiss (rainbow trout) 0.017 mg/l
	NOEC (Navicula pellicu- losa): 0.52 mg/l Exposure time: 96 h GLP: yes		Exposure time: 87 d Test Type: flow-throug test Analytical monitoring: GLP: yes
	EbC50 (Navicula pellicu- losa): 0.82 mg/l Exposure time: 96 h GLP: yes	Toxicity to daphnia and o (Chronic toxicity)	ther aquatic invertebra
	ErC50 (Navicula pellicu- losa): 1.4 mg/l		Analytical monitoring: GLP: yes
	Exposure time: 96 h GLP: yes	M-Factor (Chronic aquatic toxicity)	1
	NOEC(b) (Anabaena flos-aquae (cyanobacteri- um)): 0.53 mg/l Exposure time: 96 h GLP: yes	Toxicity to soil	LC50 (Eisenia fetida (earthworms)): > 1,25 mg/kg Exposure time: 14 d
	NOEC(r) (Anabaena flos-aquae (cyanobacteri- um)): 1.13 mg/l Exposure time: 96 h		GLP: yes NOEC (Eisenia fetida (earthworms)): 95 mg/
	GLP: yes		Exposure time: 14 d GLP: yes
	EbC50 (Anabaena flos- aquae (cyanobacteri- um)): 1.8 mg/l Exposure time: 96 h		ULI . 960



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	Toxicity to terrestrial organisms: LD50 (Apis mellifera (bees)): 8.50 µg/bee Exposure time: 48 h End point: mortality GLP: yes	14.	TRANSPORT INFORMATION International Regulation IATA-DGR UN/ID No
	Persistence and degradability		Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
	Product:		(Bifenazate)
	Biodegradability Result: Not readily biodegradable. Remarks: Not readily biodegradable.		Class
	Components:		Packing instruction
	Bifenazate:		(cargo aircraft) 964
	Biodegradability : Result: According to the results of tests of biodegradability this product is not readily biodegradable.		Packing instruction (passenger aircraft) : 964
			IMDG-Code
	Bioaccumulative potential		UN number : UN 3082
	Components:		Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
	Bifenazate:		(Bifenazate)
	Partition coefficient:		Class 9
	n-octanol/water: log Pow: 3.4 (25 °C)		Packing group III
	Mobility in soil		Labels
	Product:		EmS Code F-A, S-F
	Mobility : Remarks: No data available	Marine pollutant : yes	
	Other adverse effects		Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
	Product:		Not applicable for product as supplied.
	Additional ecological information: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life with long lasting effects.		National Regulations
			49 CFR
13.			UN/ID/NA number : UN 3082
			Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (Bifenazate)
	DISPOSAL CONSIDERATIONS		Class
	Disposal methods		Packing group III
	-		Labels CLASS 9
	Waste from residues: The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches		ERG Code 171
			Marine pollutant yes(Bifenazate)
	with chemical or used container. Offer surplus and non-recyclable solutions to a licensed disposal company.		Remarks Above applies only to containers over 119 gallons or 450 liters. Not regulat- ed if shipped in packages less than or equal to 119
	Contaminated packaging : Empty remaining contents.		gallons (450 liters). Not regulated by DOT and TDG if shipped or trans-
	Dispose of as unused product. Do not re-use empty containers.		ported in packaging less than 450 liters by road and/ or rail.



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15. REGULATORY INFORMATION

OSHA Hazards Skin sensitiser

EPCRA - Emergency Planning and Community Rightto-Know Act

SARA 311/312 Hazards . . .: Chronic Health Hazard

California Prop 65: WARNING! This product contains a chemical known to the State of California to cause cancer.

1,4-dioxane	123-91-1
ethylene oxide	75-21-8
methyloxirane	75-56-9

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

ethylene oxide 75-21-8

FIFRA Hazard Information:

This chemical is a pesticide product registered by the United States 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 (SDS), and for workplace labels of non-pesticide chemicals. The pesticide label also includes other important information. including directions for use.

The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

CAUTION

Harmful if swallowed. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

This pesticide is toxic to birds, estuarine/marine invertebrates, and fish. Do not apply directly to water. or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate.

This product is toxic to bees exposed to direct treatment. Do not apply this product while bees are actively visiting the treatment area.

Do not use or store near heat or open flame.

16. OTHER INFORMATION

Further information





HMIS III:

1*
1
0

0 = Not significant, 1 = Slight, 2 = Moderate, 3 = High,

4 = Extreme, * = Chronic

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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