

FLORAMITE® SC/LS

Version: 1.15 Revision Date: 01/17/2012 Print Date: 01/27/2012

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: FLORAMITE® SC/LS

Product Use Description: Plant protection agent

Chemical nature: Miticide

Registration number: 400-508

Company: Chemtura Corporation

199 Benson Road Middlebury, CT

06749

United States of America

Telephone: (US) +1 866-430-2775

Emergency telephone

number:

CHEMTREC: (24 hours) 800-424-9300

Chemtura Corporation Emergency Response: CHEMTURA: 800-292-5898

For additional emergency telephone numbers see section 16 of the Safety Data Sheet.

Prepared by: <u>Product Safety Department</u>

(US) +1 866-430-2775

01/17/2012

MSDSRequest@chemtura.com

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Warning

Form: liquid Colour: off-white to tan Odour: characteristic

Hazard Summary

May cause sensitization by skin contact.

May cause eye irritation.

OSHA Hazards

THIS MATERIAL IS HAZARDOUS UNDER THE CRITERIA OF THE FEDERAL

OSHA HAZARD COMMUNICATION STANDARD 29CFR 1910.1200.

Potential Health Effects

Primary Routes of Entry : Skin contact

SAP 6.0 1 / 11 SDS Number: 400000003977



FLORAMITE® SC/LS

Version: 1.15 Revision Date: 01/17/2012 Print Date: 01/27/2012

Eye contact Inhalation

Inhalation : May cause irritation of respiratory tract.

Skin : May cause allergic skin reaction.

May cause skin irritation.

Eyes : May cause eye irritation.

Ingestion : May be harmful if swallowed.

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.

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.

ACGIH No component of this product present at levels greater than or equal to 0.1% is

identified as a carcinogen or potential carcinogen by ACGIH.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Component / CAS-No.	Weight percent
BIFENAZATE 149877-41-8	22.6 %
propane-1,2-diol 57-55-6	>= 5 - < 10 %

SECTION 4. FIRST AID MEASURES

First aid procedures

Inhalation : Call a POISON CENTER or doctor/ physician.

Skin contact : Remove contaminated clothing and shoes.

Call a POISON CENTER or doctor/ physician.

Eye contact : Call a POISON CENTER or doctor/ physician.

Ingestion : Call a physician or poison control centre immediately.

Do not induce vomiting without medical advice.

SAP 6.0 2 / 11 SDS Number: 400000003977



FLORAMITE® SC/LS

Version: 1.15 Revision Date: 01/17/2012 Print Date: 01/27/2012

Notes to physician

Symptoms : sensitising effects

Risks : sensitising effects

: The first aid procedure should be established in consultation with the doctor Treatment

responsible for industrial medicine.

SECTION 5. FIREFIGHTING MEASURES

Flammable properties

Flash point : > 219 °F (104 °C)

 $: > 752 \, ^{\circ}\text{F} \, (400 \, ^{\circ}\text{C})$ Ignition temperature

Fire fighting

Suitable extinguishing media : Extinguishing media - large fires

Alcohol-resistant foam

(on small fires)

Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

: Water spray jet

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

water system.

Protective equipment and precautions for firefighters

Specific hazards during

firefighting

: No information available.

for firefighters

Special protective equipment : In the event of fire, wear self-contained breathing apparatus.

Complete suit protecting against chemicals

Full protective flameproof clothing

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Wear suitable protective equipment.

Avoid contact with skin and eyes.

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

Methods for containment /

Methods for 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.

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

In accordance with local and national regulations.

3 / 11 SAP 6.0 SDS Number: 40000003977



FLORAMITE® SC/LS

Version: 1.15 Revision Date: 01/17/2012 Print Date: 01/27/2012

SECTION 7. HANDLING AND STORAGE

Handling

Handling procedures : Avoid inhalation, ingestion and contact with skin and eyes.

Use only in area provided with appropriate exhaust ventilation.

Wash thoroughly after handling.

Storage

Requirements for storage

areas and containers

Other data

: Keep in a dry, cool place.

: Stable under recommended storage conditions.

Stable at normal ambient temperature and pressure.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Components with workplace control parameters

Components / CAS-No.	Value / Basis / Update	Control parameters	<u>Further information</u>
propane-1,2-diol 57-55-6	TWA US WEEL	10 mg/m3	
	2008-01-01		
1,4-dioxane 123-91-1	TWA ACGIH	20 ppm	
	2007-01-01		
	TWA	100 ppm 360 mg/m3	
	OSHA P1	ooo mg/me	
	1997-08-04		
	TWA	25 ppm 90 mg/m3	
	OSHA P0 1989-01-19		
ethylene oxide 75-21-8	TWA ACGIH 2007-01-01	1 ppm	
methyloxirane 75-56-9	TWA ACGIH 2007-01-01	2 ppm	
	TWA	100 ppm	

SAP 6.0 4 / 11 SDS Number: 40000003977



FLORAMITE® SC/LS

Version: 1.15	Revision Date: 01/17/2012	
	OSHA P1 1997-08-04	
	TWA 20 ppm 50 mg/m3	

Engineering measures

Engineering measures : effective ventilation in all processing areas

1989-01-19

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

location.

Personal protective equipment

Eye protection : Safety glasses with side-shields

Hand protection : Impervious gloves

Skin and body protection : impervious clothing

Respiratory protection : When workers are facing concentrations above the exposure limit they must use

appropriate certified respirators.

Hygiene measures : Ensure adequate ventilation, especially in confined areas.

Remove and wash contaminated clothing before re-use.

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form : liquid Colour : off-white

to tan

Odour : characteristic

Safety data

Flash point : $> 219 \, ^{\circ}\text{F} (104 \, ^{\circ}\text{C})$

Ignition temperature : $> 752 \, ^{\circ}\text{F} \, (400 \, ^{\circ}\text{C})$

pH : 6.9

SAP 6.0 5 / 11 SDS Number: 400000003977



FLORAMITE® SC/LS

Version: 1.15 Revision Date: 01/17/2012 Print Date: 01/27/2012

Boiling point/boiling range : Note: no data available

Specific Gravity : 1.060 at

Water solubility : Note: dispersible

Viscosity, dynamic : 83 mPa.s

at 68 °F (20 °C)

Surface tension : 42.1 mN/m

at 77 °F (25 °C)

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid : Remarks: Extremes of temperature and direct sunlight.

Materials to avoid : Remarks: Oxidizing agents

Hazardous decomposition

products

: Note: Carbon oxides

nitrogen oxides (NOx)

Hazardous reactions : Hazardous polymerisation does not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50: > 5,000 mg/kg

Species: rat

: LD50: > 2,000 mg/kg

Species: rat

Acute inhalation toxicity : LC50: > 1.8 mg/l

Species: rat

Acute dermal toxicity : LD50 Dermal: > 5,000 mg/kg

Species: rabbit

Skin irritation : Species: rabbit

Result: No skin irritation

Eye irritation : Species: rabbit

Result: No eye irritation

Sensitisation : Species: guinea pig

Classification: May cause sensitization by skin contact.

SAP 6.0 6 / 11 SDS Number: 400000003977



FLORAMITE® SC/LS

Version: 1.15 Revision Date: 01/17/2012 Print Date: 01/27/2012

CMR effects

BIFENAZATE Carcinogenicity: Animal testing did not show any carcinogenic effects.

Mutagenicity: Animal testing did not show any mutagenic effects.

Teratogenicity: No effects on or via lactation Reproductive toxicity: No toxicity to reproduction

: The toxicological data has been taken from products of similar Further information

composition.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Toxicity to fish : LC50: 1.4 mg/l

Exposure time: 96 h

Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other : EC50: 1.4 mg/l

aquatic invertebrates

Exposure time: 48 h

Species: Daphnia magna (Water flea)

Toxicity to algae : EC50: 1.3 mg/l

> Exposure time: 72 h Species: Algae

Elimination information (persistence and degradability)

Bioaccumulation

BIFENAZATE : Bioconcentration factor (BCF): 83

Method: estimated

Mobility : Remarks:

no data available

: 42.1 mN/m Surface tension

at 25 °C

Biodegradability : Result: Not readily biodegradable.

Remarks:

Not readily biodegradable.

Further information on ecology

Ecotoxicology Assessment

Results of PBT assessment

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). : Information given is based on data on the components and the Additional ecological

information ecotoxicology of similar products.

7/11 SAP 6.0 SDS Number: 40000003977



FLORAMITE® SC/LS

Version: 1.15 Revision Date: 01/17/2012 Print Date: 01/27/2012

: The following information is applicable to a component of this

material:

SECTION 13. DISPOSAL CONSIDERATIONS

Further information : In accordance with local and national regulations.

SECTION 14. TRANSPORT INFORMATION

DOT

UN number : 3082

Description of the goods : Environmentally hazardous substances, liquid, n.o.s.

: (Bifenazate)

Class : 9
Packing group : III
ERG Code : 171

IATA

UN number : 3082

Description of the goods : Environmentally hazardous substance, liquid, n.o.s.

(Bifenazate)

Class : 9
Packing group : III
Labels : 9
Environmentally hazardous : yes

IMDG

UN number : 3082

Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S. (Bifenazate)

Class : 9
Packing group : III
EmS Number 1 : F-A
EmS Number 2 : S-F

Marine pollutant : yes

Bifenazate

Environmentally hazardous : yes

Bifenazate

SECTION 15. REGULATORY INFORMATION

OSHA Hazards : This material is hazardous under the criteria of the Federal OSHA Hazard

Communication Standard 29CFR 1910.1200.

SAP 6.0 8 / 11 SDS Number: 400000003977



FLORAMITE® SC/LS

Version: 1.15 Revision Date: 01/17/2012 Print Date: 01/27/2012

SARA 311/312 Hazards : Acute Health Hazard

Chronic Health Hazard

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

cause cancer.

1,4-Dioxane 123-91-1 1,4-

dioxane

Oxirane 75-21-8 ethylene

oxide

Oxirane, methyl- 75-56-9

methyloxirane

WARNING! This product contains a chemical known to the State of California to

cause birth defects or other reproductive harm.

Oxirane 75-21-8 ethylene

oxide

The components of this product are reported in the following inventories:

US.TSCA Not On TSCA Inventory

DSL This product contains the following components that are not on the Canadian DSL

nor NDSL lists.

AICS Not in compliance with the inventory

NZIoC Not in compliance with the inventory

ENCS Not in compliance with the inventory

SAP 6.0 9 / 11 SDS Number: 40000003977



FLORAMITE® SC/LS

Version: 1.15 Revision Date: 01/17/2012 Print Date: 01/27/2012

KECI Not in compliance with the inventory

PICCS Not in compliance with the inventory

IECSC Not in compliance with the inventory

CH INV The formulation contains substances listed on the Swiss Inventory

SECTION 16. OTHER INFORMATION

Further information

HMIS Classification : Health hazard: 1

Chronic Health Hazard: *

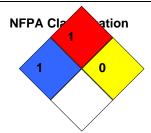
Flammability: 1 Reactivity: 0

SAP 6.0 10 / 11 SDS Number: 40000003977



FLORAMITE® SC/LS

Version: 1.15 Revision Date: 01/17/2012 Print Date: 01/27/2012



Health hazard: 1 Fire Hazard: 1 Reactivity Hazard: 0

Other Emergency Phone Number

Latin America:	Brazil	+55 113 711 9144
	All other countries	+44 (0) 1235 239 670
Mexico:		+52 555 004 8763

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.

SAP 6.0 11 / 11 SDS Number: 40000003977