

ACRAMITE®-4SC

Version: 1.6 Revision Date: 10/11/2010 Print Date: 11/03/2010

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: ACRAMITE®-4SC

Product Use Description: Plant protection agent

Synonyms: Bifenazate

Chemical nature: Acaricide

Company: Chemtura Corporation

199 Benson Road Middlebury, CT

06749

United States of America

Telephone: 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: Product Safety Department

(US) +1 866-430-2775

+011-886-2-2712-5668 MSDSRequest@chemtura.com

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

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

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Hazard Summary Harmful if swallowed.

May cause eye irritation.

May cause sensitization by skin contact.

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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

Inhalation Eye contact

Inhalation : May cause respiratory tract irritation.

Skin : May cause allergic skin reaction.

Eyes : May cause eye irritation.

Ingestion : Harmful if swallowed.

Chronic Exposure : May cause allergic skin reaction.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Component	CAS-No.	Weight percent
BIFENAZATE	149877-41-8	43.2 %
propane-1,2-diol	57-55-6	5 - 10 %

SECTION 4. FIRST AID MEASURES

First aid procedures

Inhalation : Move to fresh air.

If not breathing, give artificial respiration.
Call a POISON CENTER or doctor/ physician.

Skin contact : Remove contaminated clothing and shoes.

Wash off immediately with plenty of water for at least 15 minutes.

Call a POISON CENTER or doctor/ physician.

Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15

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minutes.

Remove contact lenses, if present, after 5 minutes, then continue rinsing eye.

Call a POISON CENTER or doctor/ physician.

Ingestion : Call a physician or poison control centre immediately.

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.

SECTION 5. FIRE-FIGHTING MEASURES

Flammable properties

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

Lower explosion limit : Remarks: no data available

Upper explosion limit : Remarks: no data available

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 fire

fighting

: Burning produces irritant fumes.

Exposure to decomposition products may be a hazard to health.

Special protective equipment

for fire-fighters

: Body covering protective clothing, full "turn-out" gear.

Self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Wear suitable protective equipment.

Avoid contact with skin and eyes.

Environmental precautions : Should not be released into the environment.

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Do not flush into surface water or sanitary sewer system.

Avoid subsoil penetration.

Methods for containment / Methods for cleaning up

: Dam up.

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal

binder, sawdust).

Pick up and transfer to properly labelled containers.

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

SECTION 7. HANDLING AND STORAGE

Handling

Handling procedures : Handle in accordance with good industrial hygiene and safety practice.

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use with adequate ventilation. Wash thoroughly after handling.

Storage

Requirements for storage

areas and containers

: Keep in a dry, cool place.

Other data

: Stable under recommended storage conditions.

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		
butan-1-ol 71-36-3	TWA ACGIH	20 ppm	
	2007-01-01		
	TWA	100 ppm 300 mg/m3	
	OSHA P1 1997-08-04		
	С	50 ppm	

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150 mg/m3

OSHA P0

1989-01-19

Engineering measures

Personal protective equipment

Eye protection : Safety glasses with side-shields

Hand protection : Chemical resistant protective gloves

Skin and body protection : Long sleeved clothing

Lab coat

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

appropriate certified respirators.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form : liquid Colour : off-white to

tan

Odour : characteristic

Safety data

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

Lower explosion limit : Note: no data available

Upper explosion limit : Note: no data available

pH : 7.0

Boiling point/boiling range : Note: no data available

Vapour pressure : Note: similar to water

Density : 1.104 g/cm3

at 77 °F (25 °C)

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Water solubility : Note: dispersible

Viscosity, dynamic : 550 mPa.s

at 77 °F (25 °C)

SECTION 10. STABILITY AND REACTIVITY

Materials to avoid : Remarks: Oxidizing agents

Strong acids and strong bases

Hazardous decomposition

products

: Note: Carbon oxides

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

Exposure time: 4 h

Species: rat

Acute dermal toxicity : LD50: > 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.

Repeated dose toxicity

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BIFENAZATE : Species: dog, male and female

Application Route: Oral Exposure time: (28 d) NOEL: < 7.9 mg/kg

Lowest observable effect level: 7.9 mg/kg

CMR effects

BIFENAZATE : Carcinogenicity: Not classifiable as a human carcinogen.

Mutagenicity: Tests on bacterial or mammalian cell cultures did not show

mutagenic effects.

Reproductive toxicity: No toxicity to reproduction

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

Bioaccumulation

BIFENAZATE : Bioconcentration factor (BCF): 83

Method: estimated

Further information on ecology

SECTION 13. DISPOSAL CONSIDERATIONS

Further information : In accordance with local and national regulations.

Do not dispose of waste into sewer.

SECTION 14. TRANSPORT INFORMATION

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DOT

UN number : 3082

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

: (Bifenazate)

Class : 9
Packing group : III
ERG Code : 171

<u>IATA</u>

UN number : 3082

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

(Bifenazate)

Class : 9 Packing group : III

IMDG

UN number : 3082

Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Bifenazate)

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

Marine pollutant : 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.

SARA 311/312 Hazards : Acute Health Hazard

Chronic Health Hazard

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SECTION 16. OTHER INFORMATION

Further information

HMIS Classification : Health hazard: 2

Chronic Health Hazard: *

Flammability: 1 Physical hazards: 0

PPI:Ask supervisor or safety specialist for handling instructions

NFPA Classification : Health hazard: 2

Fire Hazard: 1 Reactivity Hazard: 0



Other Emergency Phone Number

Latin America:	Brazil	+52 113 711 91 44
	All other countries	+44 (0)208 762 8322
Mexico:		+52 555 004 87 63

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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