

Revision Date: 05/05/2015 Print Date: 05/28/2015

# **SIROCCO**®

**EPA Registration Number: 400-582-59807** 

1.	PRODUCT AND COMPANY IDENTIFICATION	Signal word: Warning	
	Product name : SIROCCO®	Hazard statements:	
	EPA Registration No 400-582-59807	H302 Harmful if swallowed.	
	Chemical nature Formulated product	H320 Causes eye irritation. H410 Very toxic to aquatic life with long	
	Recommended use of the chemical and restrictions on use	lasting effects.	
	Recommended use Miticide	Precautionary statements:	
	<b>Restrictions on use</b> : Agriculture, For professional users only.	Prevention: P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this	
	Company information : OHP, Inc.	product. P273 Avoid release to the environment.	
	PO Box 51230 Mainland, PA 19451 (800) 659-6745	Response: P301 +	
	Emergency telephone number  TRANSPORTATION EMERGENCY  (24 hours a day) call : Chemtrec: 1-800-424-9300	P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.	
	MEDICAL EMERGENCY (24 hours a day) and Product Information call 1-800-356-4647	P305 + P351 +	
	SDS Information or Request ohp.com	P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
2.	HAZARDS IDENTIFICATION	P337 + P313 If eye irritation persists: Get medical advice/	
	Emergency Overview	attention. P391 Collect spillage.	
	WARNING!		
	Appearance        liquid         Colour        off-white, to, light tan	<b>Disposal:</b> P501 Dispose of contents/container to an approved waste disposal plant.	
	Odour : mild	Potential Health Effects	
	<b>Hazard Summary</b> Harmful if swallowed.  Causes eye irritation.  Very toxic to aquatic life with long lasting effects.	Inhalation May cause irritation of respiratory tract.	
	OSHA Regulatory status : This material is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.	Skin May irritate skin.	
		Eyes Causes eye irritation.	
		Ingestion Harmful if swallowed.	
	GHS Classification	Aggravated Medical	
	Acute toxicity (Oral) : Category 4	Condition None known.	
	Eye irritation) : Category 2B  Acute aquatic toxicity : Category 1	Symptoms of Overexposure : : Eye irritation irritant effects	
	Chronic aquatic toxicity: Category 1	Carcinogenicity:	
	GHS Label element	IARC No component of this	
	Hazard pictograms	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



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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.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture . . . . . : Mixture

Chemical nature. . . . . . . : Formulated product

**Hazardous components** 

Chemical		Concentration	
Name	CAS-No.	(%)	
Bifenazate	149877-41-8	>= 30 - < 50	
Avermectin B1	71751-41-2	< 0.1	

### 4. FIRST AID MEASURES

If inhaled. . . . : Call a POISON CENTER or doctor/ physician.

or doctor, prhydiolari.

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. . . . . : Burning produces

irritant fumes

Exposure to decomposition products may be a hazard to health.

### Specific extinguishing

**methods** . . . . . . . . . . . . . . . . . Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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

### Special protective equipment

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

Self-contained breathing apparatus (EN 133)

### 6. ACCIDENTAL RELEASE MEASURES

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

Avoid contact with skin and eyes.

### **Environmental**

**precautions** . . . . . . . : Should not be released

into the environment.

Do not flush into surface water or sanitary sewer system.

Avoid subsoil penetration.

### Methods and materials for containment and

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.

### 7. HANDLING AND STORAGE

Advice on safe handling . . .: 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.

Conditions for

safe storage . . . . . . . . . . Keep in a dry, cool place.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with workplace control parameters



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Contains no substances with occupational exposure limit values.

### 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 **Eye protection** . . . . . . . . Safety glasses with side-shields

Skin and body protection .: impervious clothing

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance . . . . . . . . : liquid

Colour . . . . . . . . . . . off-white, to, light tan

Odour . . . . . . . . . : mild

Odour Threshold . . . . . . . . . No data available

**pH** . . . . . : ca. 7.2

Melting point/range . . . . . : Not applicable

Boiling point/boiling range: 100 °C **Flash point** . . . . . . . . . . . > 110 °C

**Evaporation rate** . . . . . . . . No data available Upper explosion limit . . . . . : No data available Lower explosion limit . . . . : No data available Vapour pressure . . . . . . : similar to water Relative vapour density . . .: No data available

Relative density . . . . . . . : 1.104

Solubility(ies)

Water solubility . . . . . . : dispersible

Solubility in

other solvents . . . . . . . . No data available

Partition coefficient:

**n-octanol/water** . . . . . . . . No data available **Auto-ignition temperature** .: No data available

Decomposition

temperature . . . . . . . . . . No data available

**Viscosity** 

Viscosity, dynamic . . . . . : 333 mPa.s (20 °C) Viscosity, kinematic . . . . . : No data available

Self-Accelerating decomposition

temperature (SADT). . . . . : Method:

No information available.

### 10. STABILITY AND REACTIVITY

Reactivity . . . . . . . . . . . Stable under recommended storage conditions.

Chemical stability . . . . . . . . No decomposition if stored and applied as directed.

Possibility of hazardous

reactions..... Hazardous polymerisation does not occur.

Conditions to avoid . . . . . . . No data available

**Incompatible materials** . . . . : Strong oxidizing agents

Strong acids and strong bases

Hazardous decomposition

products . . . . . . . . . . . Carbon oxides

### 11. TOXICOLOGICAL INFORMATION

Information on likely

routes of exposure . . . . . : Skin contact Inhalation

Ingestion

**Acute toxicity** 

Product:

Acute oral toxicity . . . . . : LD50 (Rat): 310 mg/kg

Acute inhalation

**toxicity**..... LC50 (Rat): 0.52 - 2.4 mg/l : LD50 (Rat): > 5,000 mg/kg

Acute dermal toxicity

Components: Bifenazate:

Acute oral toxicity . . . . : LD50 (Rat, male and

female): > 5,000 mg/kg Method: OECD Test Guideline 401

GLP: ves

LD50 (Mouse, male and female): > 5,000 mg/kg Method: OECD Test Guideline 401 GLP: yes

Acute inhalation

toxicity..... LC50 (Rat, male and

female): > 4.4 mg/l Exposure time: 4 h Test atmosphere: dust/mist

Method: OECD Test Guideline 403

GLP: yes



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Assessment: The substance or mixture has no acute

inhalation toxicity

Remarks: An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.

Acute dermal toxicity. . . : LD50 (Rat, male and

female): > 5,000 mg/kg Method: OECD Test Guideline 402 GLP: yes

Avermectin B1:

Acute oral toxicity . . . . : LD50 (Rat): 11 mg/kg

LD50 (Rat, male and female): 8.7 - 12.8 mg/kg Method: OECD Test Guideline 401

Acute inhalation

**toxicity**..... LC50 (Rat): 1,100 mg/l

Exposure time: 4 h

LC50 (Rat, male and female): 0.21 mg/l Exposure time: 4 h Method: OECD Test Guideline 403

GLP: yes

Acute dermal toxicity . . : LD50 (Rabbit):

> 2,000 mg/kg

LD50 (Rabbit, male and female): > 2,000 mg/kg

Method:

OECD-Guideline No. 402

Skin corrosion/irritation

**Product:** 

Species . . . . . . . . . . . . . Rabbit

Result . . . . . . . : slight irritation

Components:

Bifenazate:

Method ..... OECD Test Guideline 404

Result . . . . . . . . . . . No skin irritation

**GLP** . . . . . . . . . . . . . . yes

Avermectin B1:

Species . . . . . . . . : Rabbit

Method ..... OECD-Guideline No. 404

Result . . . . . . . . . . . No skin irritation

Serious eye damage/eye irritation

**Product:** 

Species . . . . . . . . . . . . . Rabbit

Result . . . . . . . . . . . Mild eye irritation

Components:

Bifenazate:

Species . . . . . . . . . . . . Rabbit

Result . . . . . . . . . . No eye irritation

Exposure time . . . . . . : 48 h

Method ..... OECD Test Guideline 405

**GLP** . . . . . . . . . : yes

**Avermectin B1:** 

Species . . . . . . . . . . . . Rabbit

**Result** . . . . . . . . . . No eye irritation

Method ..... OECD Test Guideline 405

Respiratory or skin sensitisation

**Product:** 

Species . . . . . . . . . . . . Guinea pig

Result . . . . . . . . . Did not cause sensitisa-

tion on laboratory animals.

Components:

Bifenazate:

**Test Type** . . . . . . . . : Maximisation Test (GPMT)

Species . . . . . . . . . . . . Guinea pig

**Assessment** . . . . . . . . . May cause sensitisation

by skin contact.

Method ..... OECD Test Guideline 406

**GLP** . . . . . . . . . . . . . . yes

**Avermectin B1:** 

**Test Type** . . . . . . . . . . Maximisation Test (GPMT)

Species . . . . . . . . . . . Guinea pig

**Assessment** . . . . . . : Did not cause sensitisa-

tion on laboratory animals.

Method ..... OECD Test Guideline 406



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Germ cell mutagenicity

Components:

Bifenazate:

Genotoxicity in vitro . . . : Test Type: Ames test

Metabolic activation: with and without metabolic activation Result: negative GLP: yes

: Test Type: In Vitro mammalian Cell Gene Mutation Test

Metabolic activation: with 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

**Genotoxicity in vivo** . . . : Test Type: In vivo

micronucleus test Species: Mouse Result: negative GLP: yes

Germ cell mutagenicity

- Assessment . . . . . . : Animal testing did not

show any mutagenic

effects.

Avermectin B1:

**Genotoxicity in vitro** . . . : Test Type: Ames test

Metabolic activation: with and without metabolic

activation

Method: Mutagenicity (Escherichia coli reverse mutation assay)

Result: negative

**Genotoxicity in vivo**...: Test Type: in vivo assay

Species: Mouse (males) Cell type: Bone marrow Result: negative

Germ cell mutagenicity

- Assessment . . . . . : Animal testing did not

show any mutagenic

effects.

Carcinogenicity

Components:

Bifenazate:

Carcinogenicity

- Assessment . . . . . . : Animal testing did not

show any carcinogenic

effects.

Avermectin B1:

Carcinogenicity

- Assessment . . . . . . : Animal testing did not

show any carcinogenic

effects.

Reproductive toxicity

Components:

Bifenazate:

Reproductive toxicity

- Assessment . . . . . . : No toxicity to

reproduction No effects on or via

lactation

Avermectin B1:

Reproductive toxicity

- Assessment . . . . . : No toxicity to

reproduction

Effects on or via lactation

STOT - single exposure

Components:

Bifenazate:

Assessment . . . . . . : Based on available data,

the classification criteria are not met.

STOT - repeated exposure

Components:

Bifenazate:

**Assessment** . . . . . . . : Based on available data,

the classification criteria are not met.

Avermectin B1:

Exposure routes . . . . . : Oral

Target Organs. . . . . . : Central nervous system

**Assessment** . . . . . . . . . May cause damage to organs through prolonged or repeated exposure.

Exposure routes . . . . . : Inhalation

Target Organs. . . . . . . : Central nervous system

Assessment . . . . . . . . . May cause damage to

organs through prolonged or repeated exposure.



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**Further information** 

**Product:** 

**Remarks** . . . . . . . . . . The product itself has not been tested. The following information is applicable to a component of this material:

•

12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

Components:

Bifenazate:

Toxicity to fish . . . . . . : LC50 (Lepomis

macrochirus (Bluegill sunfish)): 0.58 mg/l Exposure time: 96 h Test Type: flow-through

test GLP: yes

LC50 (Oncorhynchus mykiss (rainbow trout)):

0.76 mg/l

Exposure time: 96 h Test Type: flow-through

test GLP: yes

Toxicity to daphnia and other

aquatic invertebrates . . : EC50 (Daphnia magna

(Water flea)): 0.5 mg/l Exposure time: 48 h Test Type: flow-through

test GLP: yes

LC50 (Crassostrea virginica): 0.42 mg/l Exposure time: 96 h Test Type: flow-through

test GLP: yes

Toxicity to algae . . . . . : IC50 (Lemna gibba):

> 3.82 mg/l Exposure time: 7 d Analytical monitoring: yes

GLP: yes

NOEC (Lemna gibba):

> 3.82 mg/l Exposure time: 7 d Analytical monitoring: yes

GLP: yes

NOEC (Selenastrum capricornutum (green algae)): 0.25 mg/l Exposure time: 96 h

GLP: yes

ErC50 (Selenastrum capricornutum (green algae)): > 2.02 mg/l Exposure time: 96 h

GLP: yes

EbC50 (Selenastrum capricornutum (green algae)): 0.9 mg/l Exposure time: 96 h

GLP: yes

NOEC (Navicula pelliculosa): 0.52 mg/l Exposure time: 96 h

GLP: yes

EbC50 (Navicula pelliculosa): 0.82 mg/l Exposure time: 96 h

GLP: yes

ErC50 (Navicula pelliculosa): 1.4 mg/l Exposure time: 96 h

GLP: yes

NOEC(b) (Anabaena flos-aquae (cyanobacterium)): 0.53 mg/l Exposure time: 96 h

GLP: yes

NOEC(r) (Anabaena flos-aquae (cyanobacterium)): 1.13 mg/l Exposure time: 96 h

GLP: yes

EbC50 (Anabaena flos-aquae (cyanobacterium)): 1.8 mg/l Exposure time: 96 h

GLP: yes

ErC50 (Anabaena flosaquae (cyanobacterium)): > 4.48 mg/l Exposure time: 96 h

GLP: yes

NOEC (Skeletonema costatum): 0.2 mg/l Exposure time: 96 h

GLP: yes



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EbC50 (Skeletonema costatum): 0.3 mg/l Exposure time: 96 h

GLP: yes

ErC50 (Skeletonema costatum): 0.36 mg/l Exposure time: 96 h

GLP: yes

M-Factor

(Acute aquatic toxicity): 1

Toxicity to fish

(Chronic toxicity) . . . . : NOEC (Oncorhynchus

mykiss (rainbow trout)):

0.017 ma/l

Exposure time: 87 d Test Type: flow-through

Analytical monitoring: yes

GLP: yes

Toxicity to daphnia and other aquatic invertebrates

(Chronic toxicity) . . . . : NOEC (Daphnia magna (Water flea)): 0.15 mg/l

Exposure time: 21 d Analytical monitoring: yes

GLP: yes

M-Factor (Chronic aquatic toxicity) ...... 1

Toxicity to soil

dwelling organisms . . . : LC50 (Eisenia fetida

(earthworms)): > 1,250 mg/kg Exposure time: 14 d

GLP: yes

NOEC (Eisenia fetida (earthworms)): 95 mg/kg Exposure time: 14 d

GLP: yes

**Toxicity to terrestrial** 

organisms . . . . . . . . : LD50 (Apis mellifera

(bees)): 8.50 µg/bee Exposure time: 48 h End point: mortality

GLP: ves

Avermectin B1:

Toxicity to fish . . . . . . : LC50 (Lepomis

machrochirus (Bluegill)):

0.0096 mg/l Exposure time: 96 h (Oncorhynchus

mykiss (rainbow trout)):

0.036 mg/l

Exposure time: 96 h Test Type: static test

Toxicity to daphnia and other

aquatic invertebrates . . : EC50 (Daphnia magna

(Water flea)): 0.00037 mg/l Exposure time: 48 h Test Type: static test

**Toxicity to algae**....: (Scenedesmus species):

> 100 mg/lExposure time: 9 d

(Pseudokirchneriella subcapitata (green algae)):

0.006 mg/l

End point: Growth rate Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201

Toxicity to fish

(Chronic toxicity) . . . . : NOEC: 0.00052 mg/l

Exposure time: 72 d Test Type: flow-through

Persistence and degradability

Product:

Biodegradability:

Remarks . . . . . . . . . . No data available

Components Bifenazate:

Biodegradability . . . . . : Result: According to the

results of tests of biodegradability this product is not readily biodegrad-

Avermectin B1:

Biodegradability . . . . . : aerobic

Inoculum: activated

sludge

Concentration: 100 mg/l Result: According to the results of tests of biodegradability this product is not readily biodegrad-

able.

Biodegradation: 3 % Exposure time: 28 d



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Bioaccumulative potential

**Product:** 

**Bioaccumulation**: Remarks:

No data available

Components:

Bifenazate:

Partition coefficient:

**n-octanol/water** : log Pow: 3.4 (25 °C)

Avermectin B1:

Partition coefficient:

n-octanol/water : log Pow: 4.4 (20 °C)

Mobility in soil

Product:

**Mobility** : Remarks:

No data available

Other adverse effects

Product:

Additional ecological

**information** : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Very toxic to aquatic organisms, may cause longterm adverse effects in the aquatic environment.

13. DISPOSAL CONSIDERATIONS

**Disposal methods** 

Waste from residues . . . . : In accordance with local

and national regulations.

14. TRANSPORT INFORMATION

**International Regulation** 

IATA-DGR

**UN/ID No.** . . . . . . . . . . . . UN 2902

 $\textbf{Proper shipping name}. \ \ldots \ \mathsf{PESTICIDE}, \ \mathsf{LIQUID},$ 

TOXIC, N.O.S.

(Abamectin, Bifenazate)

Class : 6.1

Packing group : III

Labels : Toxic

Packing instruction

(cargo aircraft) . . . . . . : 663

Packing instruction

(passenger aircraft) . . . . : 655

**IMDG-Code** 

**UN number** . . . . . . . . . . . . UN 2902

Proper shipping name...: PESTICIDES, LIQUID,

TOXIC, N.O.S.

(Abamectin, Bifenazate)

 Class
 6.1

 Packing group
 III

 Labels
 6.1

 EmS Code
 F-A, S-A

Marine pollutant . . . . . : yes

Transport in bulk according to Annex II of MARPOL

73/78 and the IBC Code

Not applicable for product as supplied.

**National Regulations** 

49 CFR

**UN/ID/NA number**..... UN 2902

Proper shipping name . . .: PESTICIDES, LIQUID,

TOXIC, N.O.S.

(Abamectin, Bifenazate)

 Class
 : 6.1

 Packing group
 : III

 Labels
 : TOXIC

 ERG Code
 : 151

Marine pollutant . . . . . . : yes (Abamectin,

Bifenazate)

15. REGULATORY INFORMATION

**OSHA Hazards** . . . . . . . . . Moderate eye irritant

**EPCRA - Emergency Planning and Community Right-**

to-Know Act

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

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.

Avermectin B1 71751-41-2 ethylene oxide 75-21-8



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#### 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.

#### WARNING

May be fatal if swallowed. Harmful if inhaled. Avoid breathing spray mist.

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

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

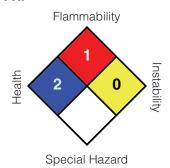
Use of this product may pose a risk to threatened and endangered species of fish, amphibians, crustaceans (including fresh water shrimp), and Insects. All use of this product in the state of California should comply with the recommendations of the CA Endangered Species Project. Before using this product in California, consult with your county agriculture commissioner to determine use limitations that apply in your area.

Do not use or store near heat or open flame.

### **16. OTHER INFORMATION**

### **Further information**

#### NFPA:



#### HMIS III:

HEALTH	2*
FLAMMABILITY	1
PHYSICAL HAZARD	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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