



Partners with solutions

MATERIAL SAFETY DATA SHEET

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TRANSPORTATION EMERGENCY (24 hours a day)
CHEMTREC:(800)-424-9300

EMERGENCY (24 hours a day) AND PRODUCT INFORMATION
OHP, Inc.:(800)-356-4647

Sirocco™

EPA Registration Number: 400-582-59807

I. PRODUCT IDENTIFICATION

Product Name: Sirocco
Product Use Description: Plant Protection Agent

II. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

WARNING!

Form: Liquid
Color: Off white to light tan
Odor: Mild
Hazard Summary: Harmful if swallowed.

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

INHALATION: May cause irritation of respiratory tract.

SKIN: May irritate skin.

EYES: May irritate eyes.

INGESTION: Harmful if swallowed.

III. 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%
Abamectin	71751-41-2	2.2%

IV. 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 center immediately.
Do not induce vomiting without medical advice.

V. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

Flash Point: >230°F (100°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

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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.

VI. ACCIDENTAL RELEASE MEASURES

Personal precautions: 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 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.

VII. 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.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Components with workplace control parameters

Components / CAS-No.	Value / Basis / Update	Control parameters	Further information
propane-1,2-diol 57-55-6	TWA US WEEL 2008-01-01	10 mg/m ³	

Engineering measures

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.

IX. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form: liquid

Color: off-white to light tan

Odor: mild

Safety data

Flash point: > 230° F (110° C)

Lower explosion limit: Note: no data available

Upper explosion limit: Note: no data available

pH: ca. 7.2

Boiling point/boiling range ..: 212° F (100° C)

Vapour pressure: Note: similar to water

Specific Gravity: 1.104 at

Water solubility: Note: dispersible

Viscosity, dynamic: 333 mPa.s
at 68° F (20° C)

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X. STABILITY AND REACTIVITY

Materials to avoid: Remarks:
Strong oxidizing agents
Strong acids and strong bases

Hazardous decomposition products: Note: Carbon oxides

Hazardous reactions: Hazardous polymerization does not occur.

Abamectin: EC50: 0.00034 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)

Toxicity to algae

Abamectin: > 100 mg/l
Exposure time: 9 d
Species: Scenedesmus species

Further information on ecology

Additional ecological information: There is no data available for this product.

XI. TOXICOLOGICAL INFORMATION

Acute oral toxicity: LD50: > 310 mg/kg
Species: rat

Acute inhalation toxicity: LC50: > 0.52 - 2.4 mg/l
Species: rat

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

Skin irritation: Species: rabbit
Result: Slight irritation

Eye irritation: Species: rabbit
Result: Mild eye irritation

Sensitization: Species: guinea pig
Result: Did not cause sensitization on laboratory animals.

XIII. DISPOSAL CONSIDERATIONS

Further information: In accordance with local and national regulations.

XII. ECOLOGICAL INFORMATION

Toxicity to fish

BIFENAZATE: LC50: 0.76 mg/l
Exposure time: 96 h
Species: Oncorhynchus mykiss (rainbow trout)
LC50: 0.58 mg/l
Exposure time: 96 h
Species: Lepomis macrochirus (Bluegill)

Abamectin: LC50: 0.0036 mg/l
Exposure time: 96 h
Species: Oncorhynchus mykiss (rainbow trout)
LC50: 0.0096 mg/l
Exposure time: 96 h
Species: Lepomis macrochirus (Bluegill)

Toxicity to daphnia and other aquatic invertebrates.

BIFENAZATE: LC50: 0.5 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)

XIV. TRANSPORT INFORMATION

DOT

UN-Number: 2902

Description of the goods: Pesticides, liquid, toxic, n.o.s.
: (Abamectin, Bifenazate)

Class: 6.1

Packing group: III

ERG Code: 151,
Limited quantity exemption possible

IATA

UN-Number: 2902

Description of the goods: Pesticides, liquid, toxic, n.o.s.
: (Abamectin, Bifenazate)

Class: 6.1

Packing group: III

IMDG

UN-Number: 2902

Description of the goods: Pesticides, liquid, toxic, N.O.S.
: (Abamectin, Bifenazate)

Class: 6.1

Packing group: III

EmS Letter 1: F-A

EmS Letter 2: S-A

Marine pollutant: Yes
Abamectin, Bifenazate

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XV. 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

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

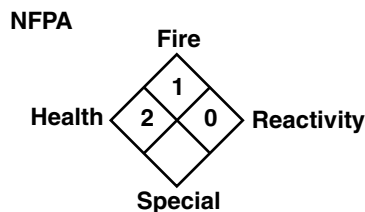
TSCA: Not On TSCA Inventory

XVI. OTHER INFORMATION

Further information

HMIS Classification: Health hazard: 2
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



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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