



SAFETY DATA SHEET

SECTION 1 - PRODUCT & COMPANY IDENTIFICATION

ARYSTA LifeScience South Africa (Pty) Ltd
 Co. Reg. No.: 2009/019713/07
 7 Sunbury Office Park, off Douglas Saunders Drive
 La Lucia Ridge, 4019

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 Web address: arystalifescience.co.za

Product Name: FLORAMITE 240 SC
 Product Use: Acaricide
 Creation Date: January 2019
 Revision Date: January 2022

24 Hr Emergency Number:

In case of Poisoning:

Griffon Poison Information Centre: 082 4468946

Poisons Information Helpline: 0861 555 777

In case of Spillage:

Spill Tech: 086 100 0366 / 083 253 6618

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

Common Name: Bifenazate
 Chemical Name: isopropyl 3-(4-methoxybiphenyl-3-yl)carbazate (IUPAC)
 CAS. No. 149877-41-8
 Chemical Formular $C_{17}H_{20}N_2O_3$
 Molecular weight 300.4
 Use: Professional use, agriculture, pesticide
 Non-systemic acaricide with contact action
 Formulation: bifenazate 20-25% w/w

Hazardous ingredients of toxicological concern:

<u>Component</u>	<u>Concern</u>	<u>% present</u>
Bifenazate	skin sensitization, environmental hazard	20 - 25
1,2-benzisothiazol-3(2H)-one	skin irritant & sensitization, eye damage, Environmental hazard	0.021 - 0.2
Sodium hydroxide	skin irritant, corrosive to metals	0.0021 - 0.1

SYMBOLS: Xi-N
 RISK-PHASE(S): R43-R50/R53

SECTION 3 - HAZARD IDENTIFICATION

Toxicity class: WHO III (a.i.), Slightly hazardous/Caution

Main hazard: May cause sensitization by skin contact

Flammability: Not applicable.

Chemical hazard: None known

Biological hazard: None known

Environmental hazard: Very toxic to aquatic life with long lasting effects.

Reproductive hazard: Not classified

Eye effects - eyes: None known

Health effects - skin: Skin sensitization, may cause an allergic skin reaction.

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Health effects – ingestion: None known

Health effects – inhalation: None known

Carcinogenicity: Not classified

Mutagenicity: Not classified

Neurotoxicity: Not classified

SECTION 4 - FIRST AID MEASURES AND PRECAUTIONS

Product in eye: Safety glasses with side shields. If product gets into eyes, rinse eyes with plenty of water for at least 15 minutes.

Product on skin: Wear suitable protective clothing. Take off contaminated clothing. Wash skin with plenty of water. If skin irritation or rash occurs, get medical advice/attention.

Product ingested: Call a poison centre or a doctor if you feel unwell.

Product inhaled:

Use suitable respiratory equipment. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

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

SECTION 5 - FIRE-FIGHTING MEASURES

Fire/Explosion Hazard: Not applicable, **Flash point** > 104°C.

Extinguishing media: Alcohol –resistant foam, dry chemicals, Carbon dioxide (CO₂)

Unsuitable extinguishing media: Water spray jet

Specific hazards: No information available

Specific extinguishing methods: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Prevent fire extinguishing water from contaminating surface water or the ground water system.

Special protective equipment for firefighters: Do not attempt to take action without suitable 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 (SPILLAGE)

Personal precautions: Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up. Avoid contact with skin and eyes.

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

Initial Containment: Soak up with inert absorbent material (eg. Sand, silica gel, acid binder, universal binder, sawdust).

Methods for cleaning up: Keep in suitable, closed containers for disposal.

Accidental Release: Dam up. Large spills should be collected mechanically (remove by pumping) for disposal.

Measures: In accordance with local and national regulations.

SECTION 7 - HANDLING AND STORAGE REQUIREMENTS

Handling: Avoid inhalation, ingestion and contact with skin and eyes. Use only in area provided with appropriate exhaust ventilation. Wash thoroughly after handling.

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Storage: Keep in a dry, cool place.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures: effective ventilation in all processing areas. Ensure eyewash stations and safety showers are close to the workstation location.

Personal protective equipment

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

Hand protection: Impervious gloves

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 re-use. Handle in accordance with good Industrial hygiene and safety practice.
Wash hands before breaks and immediately after handling the product.
Do not eat, drink or smoke when using this product.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Off white liquid
Odour: slight
pH: 5-9
Boiling point: >100°C
Melting point: Not applicable
Flash point: >104°C
Flammability: Not applicable
Explosives properties: No explosive properties
Oxidizing properties: No oxidizing properties
Density: 1.05 -1.07 g/cm³
Solubility – water: dispersible
Solubility – other solvents: miscible with most organic solvents

SECTION 10 - STABILITY AND REACTIVITY

Reactivity: The product is non-reactive under normal conditions of use, storage and transport.

Stability: Stable under normal conditions

Incompatibility with Other Materials: Oxidising agents.

Possibility of hazardous reactions: Hazardous polymerization does not occur.

Conditions to avoid: Extremes of temperature and direct sunlight.

Hazardous decomposition products: Burning produces noxious and toxic fumes

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SECTION 11 - TOXICOLOGICAL INFORMATION

Acute oral toxicity:	LD ₅₀ (Rat, male) : > 5000 mg/kg	GLP:yes
	LD ₅₀ (Rat, female): > 2000 mg/kg	GLP:yes
Acute dermal toxicity LD₅₀ mg/kg:	LD ₅₀ dermal (Rabbit): >5000 mg/kg	GLP yes
Acute Inhalation toxicity LC₅₀ mg/l /hour:	LC ₅₀ (Rat): >1.94 mg/l	
	Exposure time: 4hr	
	Test atmosphere: dust/mist	GLP:yes

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.

Skin and eye contact: No skin or eye irritation (rabbit) GLP: yes

Skin sensitization: May cause sensitization by skin contact (Guinea pig) GLP: yes

Chronic toxicity: NOAEL (chronic, oral, animal/male, 2years): 1mg/kg bodyweight (active ingredient)

NOAEL (chronic, oral, animal/female, 2years): 1.2 mg/kg bodyweight (active ingredient)

Carcinogenicity: No carcinogenic effect

Mutagenicity: No mutagenic effects

Reproductive hazards: No toxicity to reproduction, No effects on or via lactation (active ingredient)

SECTION 12 - ECOLOGICAL INFORMATION

ECOTOXICOLOGY:

Aquatic toxicity – fish: LC₅₀ (*Oncorhynchus mykiss* (rainbow trout)): 1.4 mg/l

Aquatic toxicity – daphnia: EC₅₀ (*Daphnia magna* (water flea)): 1.4 mg/l

Aquatic toxicity – algae: EC₅₀ (*Pseudokirchneriella subcapitata* (green algae)): 1.3 mg/l

Biodegradability: Not readily biodegradable

Bio-accumulation: log Pow: 3.4 (25°C) (a.i.)

Mobility: No data available.

SECTION 13 - DISPOSAL CONSIDERATION

Disposal methods:

The product should not be allowed to enter drains, water courses or the soil.

Treatment, storage, transportation and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Remove non-usable solid material and/or contaminated soil, for disposal in an approved and permitted landfill. Do not flush to surface water or sanitary sewer system. Do not contaminate rivers, dams or any other water source with chemical or used containers. Drain and TRIPLE RINSE containers and then destroy by perforation and flattening.

Disposal packaging:

Do not re-use containers for any other purpose.

SECTION 14 - TRANSPORT INFORMATION

UN No.: 3082

ADR

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (Bifenazate)

Class: 9

Packaging group: III

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Label: 9

IMDG

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (Bifenazate)

Class: 9

Packing Group: III

Label: 9

EmS Code F-A, S-F

ICAO/IATA

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (Bifenazate)

Class: 9

Packing Group: III

Label: Miscellaneous

Pack Instr. Passenger: 964

Pack Instr. Cargo: 964

Transport in bulk according to Annex II of Marpol and the IBC Code:

Not applicable

SECTION 15 - REGULATORY INFORMATION**Safety, Health and environmental regulations/legislation specific for the substance or mixture****Labelling**

Symbol (s) : Xi N

Risk phrase (s) : R43 May cause sensitization by skin contact
 : R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic Environment.

Safety phrase (s) : S24 Avoid contact with skin
 : S37 Wear suitable gloves
 : S57 Use appropriate container to avoid environmental contamination.
 : S60 This material and its container must be disposed of as hazardous waste.

SECTION 16 - OTHER INFORMATION**Packaging:**

Packed in 500g, 1, 5, 10, 15, 20 and 25 kg bags and labeled according to South African regulations and guidelines.

Disclaimer:

The information on this sheet is not a specification; it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage use of the product. It is not applicable to unusual or non-standard uses of the product nor where instructions or recommendations are not followed.

All information is given in good faith but without guarantee in respect of accuracy, and no responsibility is accepted for errors and omissions or the consequence thereof.

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