

# SAFETY DATA SHEET

## ACRAMITE® 480 SC



Version 1.8      Revision Date: 05.05.2016      MSDS Number: 400000004589      Country: AU  
Language: EN

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### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : ACRAMITE® 480 SC

Product code : 400000004589

#### Details of the supplier of the safety data sheet

Company: Arysta LifeScience Australia Pty Ltd  
c/o Level 3, 70 Hindmarsh Square  
Adelaide SA  
Australia  
5000  
Telephone : + 61 8 8112 0900

Prepared by sds.request@arysta.com

Further information for the safety data sheet :  
sds.request@arysta.com

#### 1.4 Emergency telephone number

Emergency telephone number: +61 2801 44558, ORICA : 1800 033 111 (24 hr Service)  
For advice, contact a Poisons Information Centre (Phone: Australia 131 126 or New Zealand 0800 764 766) or a doctor at once.  
For additional emergency telephone numbers see section 16 of the Safety Data Sheet.

#### Recommended use of the chemical and restrictions on use

Recommended use : Plant protection agent  
Acaricide

Restrictions on use : Agriculture  
For professional users only.  
APVMA No: 55264

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### SECTION 2. HAZARDS IDENTIFICATION

#### GHS Classification

Skin sensitisation : Category 1


#### GHS Label element

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Hazard pictograms : 

Signal word : Warning

Hazard statements : H317 May cause an allergic skin reaction.

Precautionary statements : **Prevention:**  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear protective gloves.  
**Response:**  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P363 Wash contaminated clothing before reuse.  
**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

### Other hazards which do not result in classification

Hazardous substance  
Dangerous goods  
Very toxic to aquatic life with long lasting effects.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Bifenazate - 480 g/L

### Hazardous components

Chemical Name	CAS-No.	Concentration (% w/w)
Bifenazate	149877-41-8	>= 30 - < 60

## SECTION 4. FIRST AID MEASURES

General advice : For advice, contact a Poisons Information Centre (Phone: Australia 131 126 or New Zealand 0800 764 766) or a doctor at once.

If inhaled : Remove to fresh air.  
Obtain medical attention.

In case of skin contact : Remove contaminated clothing and shoes.  
Wash off with warm water and soap.

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- If symptoms persist, call a physician.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
If symptoms persist, call a physician.
- If swallowed : Do NOT induce vomiting.  
Rinse mouth with water.  
Obtain medical attention.
- Most important symptoms and effects, both acute and delayed : sensitising effects  
Symptoms may be delayed.  
sensitising effects  
May cause damage to organs through prolonged or repeated exposure.
- Notes to physician : The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.
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### SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Extinguishing media - large fires  
Alcohol-resistant foam  
(on small fires)  
Carbon dioxide (CO<sub>2</sub>)  
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.  
Prevent fire extinguishing water from contaminating surface water or the ground water system.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.
- 

### SECTION 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 con- : Dam up.
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tainment and cleaning 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.

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### SECTION 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.

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### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

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      :    Chemical resistant protective gloves

Eye protection      :    Safety glasses with side-shields

Skin and body protection      :    Impervious clothing

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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance      :    liquid

Colour      :    off-white, to, tan

Odour      :    sweet

Odour Threshold      :    No data available

pH      :    5 - 9

Melting point/range      :    Not applicable

Boiling point/boiling range      :    > 100 °C

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Flash point	: > 400 °C does not flash
Evaporation rate	: No data available
Upper explosion limit	: Not explosive
Lower explosion limit	: Not explosive
Vapour pressure	: similar to water
Relative vapour density	: No data available
Relative density	: 1.1 (20 °C)
Density	: 1.1 g/cm <sup>3</sup> (25 °C)
Solubility(ies)	
Water solubility	: dispersible
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: > 400 °C
Decomposition temperature	: No data available
Viscosity	
Viscosity, dynamic	: 300 - 800 mPa.s (20 - 25 °C)
Viscosity, kinematic	: not determined
Explosive properties	: Not explosive
Self-Accelerating decomposition temperature (SADT)	: Method: No information available.
Surface tension	: 43 mN/m, 25 °C
Oxidizing potential	: The substance or mixture is not classified as oxidizing.

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### SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: Hazardous polymerisation does not occur.
Conditions to avoid	: Extremes of temperature and direct sunlight.

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Incompatible materials : Oxidizing agents  
Strong acids and strong bases

Hazardous decomposition products : Burning produces noxious and toxic fumes.

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### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

##### Product:

Acute oral toxicity : LD50 (Rat, male): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 1.8 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit, male and female): > 5,000 mg/kg  
Method: OECD Test Guideline 402

##### Components:

##### Bifenazate:

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

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  
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

#### Skin corrosion/irritation

##### Product:

Species: Rabbit

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Method: OECD Test Guideline 404  
Result: No skin irritation

### **Components:**

#### **Bifenazate:**

Species: Rabbit  
Exposure time: 4 h  
Assessment: No skin irritation  
Method: OECD Test Guideline 404  
Result: No skin irritation  
GLP: yes

### **Serious eye damage/eye irritation**

#### **Product:**

Species: Rabbit  
Result: No eye irritation  
Method: OECD Test Guideline 405

### **Components:**

#### **Bifenazate:**

Species: Rabbit  
Result: No eye irritation  
Exposure time: 48 h  
Assessment: No eye irritation  
Method: OECD Test Guideline 405  
GLP: yes

### **Respiratory or skin sensitisation**

#### **Product:**

Species: Guinea pig  
Method: Maximisation Test (GPMT)  
Result: May cause sensitisation by skin contact.  
Remarks: Information given is based on data on the components and the toxicology of similar products.

### **Components:**

#### **Bifenazate:**

Test Type: Maximisation Test (GPMT)  
Species: Guinea pig  
Assessment: May cause sensitisation by skin contact.  
Method: OECD Test Guideline 406  
GLP: yes

### **Chronic toxicity**

### **Germ cell mutagenicity**

#### **Product:**

Germ cell mutagenicity - : Based on available data, the classification criteria are not met.

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### Assessment

#### **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  
Cell type: Bone marrow  
Exposure time: 24 h  
Dose: 0, 96, 192, 384 mg/kg  
Result: negative  
GLP: yes
- Germ cell mutagenicity - Assessment
- : Animal testing did not show any mutagenic effects.

#### **Carcinogenicity**

##### **Product:**

- Carcinogenicity - Assessment
- : Based on available data, the classification criteria are not met.

#### **Components:**

##### **Bifenazate:**

Species: Rat, (male)  
Application Route: Oral  
Exposure time: 104 weeks  
Dose: 0, 1.0, 3.9, 9.7 mg/kg bw/d  
NOAEL: 1.0 mg/kg bw/day

LOAEL: 3.9 mg/kg body weight

Method: OECD 453  
Target Organs: spleen, Blood  
GLP: yes

Species: Rat, (female)  
Application Route: Oral



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Exposure time: 104 weeks  
Dose: 0, 1.2, 4.8, 9.7 mg/kg bw/d  
NOAEL: 1.2 mg/kg bw/day

LOAEL: 3.9 mg/kg body weight

Method: OECD 453  
GLP: yes

Species: Mouse, (male)  
Application Route: Oral  
Exposure time: 78 weeks  
Dose: 0, 1.5, 15.4, 35.1 mg/kg bw/d  
NOAEL: 1.5 mg/kg bw/day

LOAEL: 15.4 mg/kg body weight

Method: OECD Test Guideline 451  
GLP: yes

Species: Mouse, (female)  
Application Route: Oral  
Exposure time: 78 weeks  
Dose: 0, 1.9, 19.7, 35.7 mg/kg bw/d  
NOAEL: 1.9 mg/kg bw/day

LOAEL: 15.4 mg/kg body weight

Method: OECD Test Guideline 451  
GLP: yes

Carcinogenicity - Assessment : Animal testing did not show any carcinogenic effects.

### Reproductive toxicity

#### **Product:**

Reproductive toxicity - Assessment : Based on available data, the classification criteria are not met.

#### **Components:**

##### **Bifenazate:**

Effects on fertility : Test Type: Two-generation study  
Species: Rat  
Application Route: Oral  
Fertility: NOEL: > 15 mg/kg bw/day  
Early Embryonic Development: No observed adverse effect level: > 15 mg/kg bw/day  
GLP: yes

Effects on foetal development : Species: Rat, female  
Application Route: Oral

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Dose: 0, 10, 100, 500 mg/kg bw/d  
General Toxicity Maternal: 10 mg/kg bw/day  
Teratogenicity: No observed adverse effect level: > 500 mg/kg bw/day  
Method: OECD Test Guideline 414

Species: Rabbit, female  
Application Route: Oral  
Dose: 0, 10, 50, 200 mg/kg bw/d  
General Toxicity Maternal: > 15 mg/kg bw/day  
Teratogenicity: No observed adverse effect level: > 200 mg/kg bw/day  
Method: OECD Test Guideline 414

Reproductive toxicity - Assessment : No toxicity to reproduction  
No effects on or via lactation

### STOT - single exposure

#### **Product:**

Assessment: Based on available data, the classification criteria are not met.

#### **Components:**

##### **Bifenazate:**

Assessment: Based on available data, the classification criteria are not met.

### STOT - repeated exposure

#### **Product:**

Assessment: Based on available data, the classification criteria are not met.

#### **Components:**

##### **Bifenazate:**

Assessment: Based on available data, the classification criteria are not met.

### Repeated dose toxicity

#### **Components:**

##### **Bifenazate:**

Species: Rat, male and female  
NOAEL: < 33.3 mg/kg  
LOAEL: 33.3 mg/kg  
Application Route: Oral  
Exposure time: 28 d  
Method: OECD Test Guideline 407  
GLP: yes  
Target Organs: Liver, spleen, thymus gland, lymph node, Bone marrow

Species: Dog, male and female  
NOAEL: 1 mg/kg  
LOAEL: 8.9 mg/kg

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Application Route: Oral  
Exposure time: 1 y  
Method: OECD Test Guideline 452  
GLP: yes  
Target Organs: Liver, Blood, Kidney

Species: Mouse, male and female  
NOAEL: < 33.9 mg/kg  
LOAEL: 33.9 mg/kg  
Application Route: Oral  
Exposure time: 28 d  
Method: OECD Test Guideline 407  
GLP: yes  
Target Organs: Liver, spleen, thymus gland, lymph node, Bone marrow

Species: Rat, male and female  
LOAEL: 400 mg/kg  
Application Route: Dermal  
Exposure time: 21 - Days  
Method: OECD Test Guideline 410  
GLP: yes  
Target Organs: spleen, Blood

Species: Rat, male  
LOAEL: 34.6 mg/kg  
Application Route: Oral  
Exposure time: 2 - week  
GLP: yes  
Remarks: No significant adverse effects were reported

Species: Rat, female  
LOAEL: 46.7 mg/kg  
Application Route: Oral  
Exposure time: 2 - week  
GLP: yes  
Remarks: No significant adverse effects were reported

Species: Rat, male and female  
NOAEL: 2.7 mg/kg  
LOAEL: 13.8 mg/kg  
Application Route: Oral  
Exposure time: 90-day  
Method: OECD Test Guideline 408  
GLP: yes  
Target Organs: Liver, Kidney, spleen, Adrenal gland

Species: Mouse, male  
NOAEL: 8 mg/l  
LOAEL: 16.2 mg/kg  
Application Route: Oral  
Exposure time: 90-day  
Method: OECD Test Guideline 408  
GLP: yes  
Target Organs: spleen

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Species: Mouse, female  
NOAEL: 10.3 mg/l  
LOAEL: 16.2 mg/kg  
Application Route: Oral  
Exposure time: 90-day  
Method: OECD Test Guideline 408  
GLP: yes  
Target Organs: spleen

Species: Dog  
NOAEL: 0.9 mg/l  
LOAEL: 10.4 mg/kg  
Application Route: Oral  
Exposure time: 90-day  
Method: OECD Test Guideline 408  
GLP: yes  
Target Organs: Blood, Liver, Urinary system

Species: Rat  
30 mg/l  
Application Route: inhalation (dust/mist/fume)  
Exposure time: 4 - week  
GLP: yes  
Target Organs: Nasal inner lining, spleen

Species: Rat  
> 0.2 mg/l  
Application Route: inhalation (dust/mist/fume)  
Exposure time: 5 - Day  
GLP: no  
Target Organs: Liver, thymus, spleen, Kidney, Nasal inner lining

Species: Mouse, female  
LOAEL: ca.200 ppm (average dose level ~50 mg/kg/day)  
Application Route: Oral  
Exposure time: 28 d  
Target Organs: spleen, thymus  
Remarks: Bifenazate is not immunotoxic in this study at diet admixture concentrations up to 200 ppm.

### Experience with human exposure

#### Components:

##### **Bifenazate:**

General Information : Remarks: No significant exposure of the general population is anticipated from the manufacture and normal agricultural use of bifenazate. No epidemiological studies have been carried out or are considered necessary. -- (DAR ANNEX IIA 5.9)

### Further information

#### Product:

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Remarks: No data available

### Components:

#### **Bifenazate:**

Remarks: No cases of toxicity or poisoning incidents have been reported during manufacture, formulation, efficacy testing or normal horticultural/agricultural use of bifenazate. There are no known report from the open literature, relating to clinical cases and poisoning incidents with bifenazate. --(DAR ANNEX IIA 5.9)

## SECTION 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

#### Product:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1.4 mg/l  
Exposure time: 96 h  
NOEC (Oncorhynchus mykiss (rainbow trout)): 0.017 mg/l

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.4 mg/l  
Exposure time: 48 h

Toxicity to algae : NOEC (Scenedesmus quadricauda (Green algae)): 0.043 mg/l  
Exposure time: 72 h  
ErC50 (Chlorella pyrenoidosa (aglae)): 1.3 mg/l

#### 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

LC50 (Oncorhynchus mykiss (rainbow trout)): 0.044 mg/l  
Exposure time: 96 h  
Test Type: flow-through test  
Analytical monitoring: yes  
GLP: yes

LC50 (Oncorhynchus mykiss (rainbow trout)): 0.21 mg/l  
Exposure time: 96 h  
Test Type: flow-through test  
Analytical monitoring: yes  
GLP: yes

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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

EC50 (Daphnia magna (Water flea)): 0.051 mg/l  
Exposure time: 48 h  
Test Type: flow-through test  
Analytical monitoring: yes  
GLP: yes

EC50 (Daphnia magna (Water flea)): 0.78 mg/l  
Exposure time: 48 h  
Test Type: Immobilization  
Analytical monitoring: yes  
GLP: yes

Toxicity to algae : IC50 (Lemna gibba (gibbous duckweed)): > 3.82 mg/l  
Exposure time: 7 d  
Analytical monitoring: yes  
GLP: yes

NOEC (Lemna gibba (gibbous duckweed)): > 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

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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 flos-aquae (cyanobacterium)): > 4.48 mg/l  
Exposure time: 96 h  
GLP: yes

NOEC (Skeletonema costatum (marine diatom)): 0.2 mg/l  
Exposure time: 96 h  
GLP: yes

EbC50 (Skeletonema costatum (marine diatom)): 0.3 mg/l  
Exposure time: 96 h  
GLP: yes

ErC50 (Skeletonema costatum (marine diatom)): 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 mg/l  
Exposure time: 87 d  
Test Type: flow-through test  
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 : NOEC (Eisenia fetida (earthworms)): 35.98 mg/kg  
Exposure time: 28 d  
GLP: yes

Plant toxicity : > 3.82 mg/kg

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Toxicity to terrestrial organisms : LD50 (Anas platyrhynchos (Mallard duck)): > 16.9 mg/kg  
GLP: yes

LD50 (Anas platyrhynchos (Mallard duck)): > 18.3 mg/kg

### Persistence and degradability

#### Product:

Biodegradability : Remarks: Not readily biodegradable.

#### Components:

##### **Bifenazate:**

Biodegradability : Result: According to the results of tests of biodegradability this product is not readily biodegradable.  
Remarks: Not readily biodegradable.

### Bioaccumulative potential

#### Components:

##### **Bifenazate:**

Partition coefficient: n-octanol/water : log Pow: 3.4 (25 °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 life with long lasting effects.

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## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : In accordance with local and national regulations.  
Do not dispose of waste into sewer.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.



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### SECTION 14. TRANSPORT INFORMATION

#### International Regulation

##### UNRTDG

UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bifenazate)  
Class : 9  
Packing group : III  
Labels : 9

##### IATA-DGR

UN/ID No. : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., Environmentally hazardous substance, liquid, n.o.s. (Bifenazate)  
Class : 9  
Packing group : III  
Labels : Miscellaneous  
Packing instruction (cargo aircraft) : 964  
Packing instruction (passenger aircraft) : 964

##### IMDG-Code

UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bifenazate)  
Class : 9  
Packing group : III  
Labels : 9  
EmS Code : F-A, S-F  
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

##### ADG

UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bifenazate)  
Class : 9  
Packing group : III  
Labels : 9  
Hazchem Code : 3Z  
Remarks : SP No. AU01 Environmentally Hazardous Substances meeting the descriptions of UN 3077 or UN 3082 are not subject to

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this Code when transported by road or rail in;  
(a) packagings that do not incorporate a receptacle exceeding 500 kg(L); or  
(b) IBCs.

### SECTION 15. REGULATORY INFORMATION

#### Safety, health and environmental regulations/legislation specific for the substance or mixture

Standard for the Uniform Scheduling of Medicines and Poisons : Schedule 5

Prohibition/Licensing Requirements : There is no applicable prohibition or notification/licensing requirements, including for carcinogens under Commonwealth, State or Territory legislation.

### SECTION 16. OTHER INFORMATION

#### Full text of other abbreviations

(Q)SAR - (Quantitative) Structure Activity Relationship; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CPR - Controlled Products Regulations; DIN - Standard of the German Institute for Standardisation; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; OECD - Organization for Economic Cooperation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TDG - Transportation of Dangerous Goods; UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System; DSL - Domestic Substances List (Canada); KECI - Korea Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); AICS - Australian Inventory of Chemical Substances; IECSC - Inventory of Existing Chemical Substances in China; ENCS - Existing and New Chemical Substances (Japan); ISHL - Industrial Safety and Health Law (Japan); PICCS - Philippines In-

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Inventory of Chemicals and Chemical Substances; NZIoC - New Zealand Inventory of Chemicals; TCSI - Taiwan Chemical Substance Inventory; CMR - Carcinogen, Mutagen or Reproductive Toxicant; GLP - Good Laboratory Practice

Date format : dd.mm.yyyy

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.

AU / EN

### Carechem24 International Worldwide Coverage

#### Emergency Phone Number

<u>Europe:</u>	All European Countries	+44 (0) 1235 239 670 (NCEC)
<u>Asia Pacific:</u>	East / South East Asia – Regional Number	+65 3158 1074
	Australia	+61 2801 44558
	New Zealand	+64 9929 1483
	China	+86 532 8388 9090
	China Taiwan	+86 10 5100 3039
	Japan	+81 345 789 341
	Indonesia	00780 3011 0293
	Malaysia	+60 3 6207 4347
	Thailand	001800 1 2066 6751
	Korea	+65 3158 1285 +82 (0)234 798 401
	Vietnam	+65 3158 1255
	India	+65 3158 1198 0800 100 7479
	Pakistan	+65 3158 1329
	Philippines	+65 31581203
	Sri Lanka	+65 3158 1195
	Emergency Phone Number	+65 3158 1200
<u>Middle East / Africa:</u>	Arabic speaking countries	+44 (0) 1235 239 671
	South Africa	+27 21 300 2732
	All other countries	+44 (0) 1235 239 670
<u>America</u>	United States of America and Canada	+1866 928 0789 +1 215 207 0061
<u>Latin America:</u>	Brazil	+55 11 3197 5891

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	Chile	+56 225 829 336
	All other countries	+44 (0) 1235 239 670