SAFETY DATA SHEET
ACRAMITE® 480 SC

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

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification
Skin sensitisation : Category 1

GHS Label element
Hazard pictograms : ![Warning]

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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Concentration (% w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bifenazate</td>
<td>149877-41-8</td>
<td>&gt;= 30 - &lt; 60</td>
</tr>
</tbody>
</table>

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.
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.

SECTION 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 firefighting:
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 containing spills:
Dam up.
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.

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

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
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/cm³ (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.

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.
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
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.
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
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
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
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
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:
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 (algae)): 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
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
<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
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<tbody>
<tr>
<td>Exposure time: NOEC(b) (Anabaena flos-aquae (cyanobacterium))</td>
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<td>GLP: yes</td>
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<td>96 h</td>
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<td>Exposure time: ErC50 (Anabaena flos-aquae (cyanobacterium))</td>
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<td>M-Factor (Acute aquatic toxicity)</td>
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<tr>
<td>Toxicity to fish (Chronic toxicity)</td>
<td>NOEC (Oncorhynchus mykiss (rainbow trout)): 0.017 mg/l</td>
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<td>Test Type: flow-through test</td>
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<td>yes</td>
</tr>
<tr>
<td>GLP: yes</td>
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<td>Exposure time: NOEC (Daphnia magna (Water flea)): 0.15 mg/l</td>
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<td>M-Factor (Chronic aquatic toxicity)</td>
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<td>Toxicity to soil dwelling organisms</td>
<td>NOEC (Eisenia fetida (earthworms)): 35.98 mg/kg</td>
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<td>Exposure time: 28 d</td>
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<td>GLP: yes</td>
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<tr>
<td>Plant toxicity</td>
<td>&gt; 3.82 mg/kg</td>
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</tbody>
</table>
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.

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.
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
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; ErCxx - 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 Co-operation 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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**Carechem24 International Worldwide Coverage**

**Emergency Phone Number**

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