

**BIFLEX ULTRA-LA-ODOUR TERMITICIDE & INSECTICIDE**

|         |                |                |                                 |
|---------|----------------|----------------|---------------------------------|
| Version | Revision Date: | SDS Number:    | Date of last issue: 14.10.2025  |
| 2.0     | 09.04.2026     | 11583648-00002 | Date of first issue: 14.10.2025 |

**SECTION 1: IDENTIFICATION**

Product name : BIFLEX ULTRA-LA-ODOUR TERMITICIDE &amp; INSECTICIDE

Product code : UVP: DU00000207 Specification: 102D00000528

**Manufacturer or supplier's details**Company : 2022 Environmental Science AU Pty Ltd  
ABN 49 656 513 923Address : Suite 2.06, Level 2, 737 Burwood Road  
Hawthorn East, Australia 3123

Telephone : (03) 7019 3839

Emergency telephone number : +61 2 9037 2994

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

|                     |                                |
|---------------------|--------------------------------|
| Recommended use     | : Insecticide                  |
| Restrictions on use | : For professional users only. |

**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**

|                                                    |                               |
|----------------------------------------------------|-------------------------------|
| Acute toxicity (Oral)                              | : Category 4                  |
| Serious eye damage/eye irritation                  | : Category 1                  |
| Skin sensitisation                                 | : Category 1                  |
| Carcinogenicity                                    | : Category 2                  |
| Specific target organ toxicity - repeated exposure | : Category 1 (Nervous system) |
| Aspiration hazard                                  | : Category 1                  |

**GHS label elements**Hazard pictograms : 

Signal word : Danger

Hazard statements : H302 Harmful if swallowed.  
H304 May be fatal if swallowed and enters airways.  
H317 May cause an allergic skin reaction.

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H318 Causes serious eye damage.  
H351 Suspected of causing cancer.  
H372 Causes damage to organs (Nervous system) through prolonged or repeated exposure.

Supplemental Hazard Statements : AUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statements : **Prevention:**  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P260 Do not breathe mist or vapours.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**  
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
P302 + P352 IF ON SKIN: Wash with plenty of water.  
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
P321 Specific treatment (see supplemental first aid instructions on this label).  
P331 Do NOT induce vomiting.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

**Storage:**  
P405 Store locked up.

**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards which do not result in classification**

None known.

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**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

**Components**

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| Chemical name                                                   | CAS-No.    | Concentration (% w/w) |
|-----------------------------------------------------------------|------------|-----------------------|
| Distillates (petroleum), hydrotreated middle                    | 64742-46-7 | >= 60 -< 65           |
| Alcohols, C12-14 ethoxylated                                    | 68439-50-9 | >= 10 -< 15           |
| Bifenthrin                                                      | 82657-04-3 | 10.656                |
| Benzenesulfonic acid, 4-C10-14-alkyl derivatives, calcium salts | 90194-26-6 | >= 1 -< 3             |

## SECTION 4. FIRST AID MEASURES

- General advice : In the case of accident or if you feel unwell, seek medical advice immediately.  
 When symptoms persist or in all cases of doubt seek medical advice.
- If inhaled : If inhaled, remove to fresh air.  
 Get medical attention.
- In case of skin contact : In case of contact, immediately flush skin with plenty of water.  
 Remove contaminated clothing and shoes.  
 Get medical attention.  
 Wash clothing before reuse.  
 Thoroughly clean shoes before reuse.
- In case of eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.  
 If easy to do, remove contact lens, if worn.  
 Get medical attention immediately.
- If swallowed : If swallowed, DO NOT induce vomiting.  
 If vomiting occurs have person lean forward.  
 Call a physician or poison control centre immediately.  
 Rinse mouth thoroughly with water.  
 Never give anything by mouth to an unconscious person.
- Most important symptoms and effects, both acute and delayed : Harmful if swallowed.  
 May be fatal if swallowed and enters airways.  
 May cause an allergic skin reaction.  
 Causes serious eye damage.  
 Suspected of causing cancer.  
 Causes damage to organs through prolonged or repeated exposure.  
 Repeated exposure may cause skin dryness or cracking.
- Protection of first-aiders : First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
- Notes to physician : Treat symptomatically.

## SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water spray  
 Alcohol-resistant foam  
 Carbon dioxide (CO<sub>2</sub>)  
 Dry chemical
- Unsuitable extinguishing media : High volume water jet

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**II**

- Specific hazards during fire-fighting : Vapours may form explosive mixtures with air.  
Exposure to combustion products may be a hazard to health.
- Hazardous combustion products : Carbon oxides  
Chlorine compounds  
Fluorine compounds  
Sulphur oxides  
Metal oxides
- Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Use water spray to cool unopened containers.  
Remove undamaged containers from fire area if it is safe to do so.  
Evacuate area.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.
- Hazchem Code : •3Z

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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).
- Environmental precautions : Avoid release to the environment.  
Prevent further leakage or spillage if safe to do so.  
Prevent spreading over a wide area (e.g. by containment or oil barriers).  
Retain and dispose of contaminated wash water.  
Local authorities should be advised if significant spillages cannot be contained.
- Methods and materials for containment and cleaning up : Soak up with inert absorbent material.  
For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container.  
Clean up remaining materials from spill with suitable absorbent.  
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.  
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

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## SECTION 7. HANDLING AND STORAGE

- Technical measures : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
- Local/Total ventilation : Use only with adequate ventilation.
- Advice on safe handling : Do not get on skin or clothing.  
Do not breathe mist or vapours.  
Do not swallow.  
Do not get in eyes.  
Wash skin thoroughly after handling.  
Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment  
Keep container tightly closed.  
Do not eat, drink or smoke when using this product.  
Take care to prevent spills, waste and minimize release to the environment.
- Hygiene measures : If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place.  
When using do not eat, drink or smoke.  
Contaminated work clothing should not be allowed out of the workplace.  
Wash contaminated clothing before re-use.
- Conditions for safe storage : Keep in properly labelled containers.  
Store locked up.  
Keep tightly closed.  
Store in accordance with the particular national regulations.
- Materials to avoid : Do not store with the following product types:  
Strong oxidizing agents

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

| Components                                   | CAS-No.    | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis  |
|----------------------------------------------|------------|-------------------------------|------------------------------------------------|--------|
| Distillates (petroleum), hydrotreated middle | 64742-46-7 | TWA (Mist)                    | 5 mg/m <sup>3</sup>                            | AU OEL |

- Engineering measures** : Ensure adequate ventilation, especially in confined areas.  
Minimize workplace exposure concentrations.

### Personal protective equipment

- Respiratory protection : If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.
- Filter type : Combined particulates and organic vapour type
- Hand protection : Chemical-resistant gloves
- Material : Chemical-resistant gloves

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|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Remarks                  | : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday. |
| Eye protection           | : Wear the following personal protective equipment: Chemical resistant goggles must be worn. If splashes are likely to occur, wear: Face-shield                                                                                                                                                                                                                                                                                           |
| Skin and body protection | : Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential. Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).                                                                                                                                                                                                          |
- 

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

- |                                                  |                              |
|--------------------------------------------------|------------------------------|
| Appearance                                       | : liquid                     |
| Colour                                           | : yellow-orange              |
| Odour                                            | : aromatic, hydrocarbon-like |
| Odour Threshold                                  | : No data available          |
| pH                                               | : No data available          |
| Melting point/freezing point                     | : No data available          |
| Initial boiling point and boiling range          | : No data available          |
| Flash point                                      | : 94 °C                      |
| Evaporation rate                                 | : No data available          |
| Flammability (solid, gas)                        | : Not applicable             |
| Flammability (liquids)                           | : No data available          |
| Upper explosion limit / Upper flammability limit | : No data available          |
| Lower explosion limit / Lower flammability limit | : No data available          |

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|                                        |   |                                                          |
|----------------------------------------|---|----------------------------------------------------------|
| Vapour pressure                        | : | No data available                                        |
| Relative vapour density                | : | No data available                                        |
| Relative density                       | : | No data available                                        |
| Density                                | : | ca. 0.9 g/cm <sup>3</sup>                                |
| Solubility(ies)                        |   |                                                          |
| Water solubility                       | : | emulsifiable                                             |
| Partition coefficient: n-octanol/water | : | Not applicable                                           |
| Auto-ignition temperature              | : | No data available                                        |
| Decomposition temperature              | : | No data available                                        |
| Viscosity                              |   |                                                          |
| Viscosity, kinematic                   | : | No data available                                        |
| Explosive properties                   | : | Not explosive                                            |
| Oxidizing properties                   | : | The substance or mixture is not classified as oxidizing. |
| Particle characteristics               |   |                                                          |
| Particle size                          | : | Not applicable                                           |

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**SECTION 10. STABILITY AND REACTIVITY**

|                                    |   |                                                                                         |
|------------------------------------|---|-----------------------------------------------------------------------------------------|
| Reactivity                         | : | Not classified as a reactivity hazard.                                                  |
| Chemical stability                 | : | Stable under normal conditions.                                                         |
| Possibility of hazardous reactions | : | Vapours may form explosive mixture with air.<br>Can react with strong oxidizing agents. |
| Conditions to avoid                | : | None known.                                                                             |
| Incompatible materials             | : | Oxidizing agents                                                                        |
| Hazardous decomposition products   | : | No hazardous decomposition products are known.                                          |

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**SECTION 11. TOXICOLOGICAL INFORMATION**

|                 |   |                                                        |
|-----------------|---|--------------------------------------------------------|
| Exposure routes | : | Inhalation<br>Skin contact<br>Ingestion<br>Eye contact |
|-----------------|---|--------------------------------------------------------|

**Acute toxicity**

Harmful if swallowed.

**Product:**

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Acute oral toxicity : Acute toxicity estimate: 358.77 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 5 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: Calculation method

**Components:****Distillates (petroleum), hydrotreated middle:**

|                           |                                                                                                  |
|---------------------------|--------------------------------------------------------------------------------------------------|
| Acute oral toxicity       | : LD50 (Rat): > 5,000 mg/kg                                                                      |
| Acute inhalation toxicity | : LC50 (Rat): > 5,000 mg/m3<br>Exposure time: 4 h<br>Test atmosphere: vapour                     |
| Acute dermal toxicity     | : LD50 (Rat): > 2,000 mg/kg<br>Assessment: The substance or mixture has no acute dermal toxicity |

**Alcohols, C12-14 ethoxylated:**

|                           |                                                                                                                               |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Acute oral toxicity       | : LD50 (Rat): > 500 - 2,000 mg/kg<br>Remarks: Based on data from similar materials                                            |
| Acute inhalation toxicity | : LC50 (Rat): > 1.6 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Remarks: Based on data from similar materials |
| Acute dermal toxicity     | : Acute toxicity estimate: 2,500 mg/kg<br>Method: Expert judgement                                                            |

**Bifenthrin:**

|                           |                                                                                                                       |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Acute oral toxicity       | : LD50 (Mouse, female): 42.5 mg/kg<br>Method: US EPA Test Guideline OPP 81-1                                          |
| Acute inhalation toxicity | : LC50 (Rat, female): 0.8 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Method: OECD Test Guideline 403 |
| Acute dermal toxicity     | : LD50 (Rat): > 2,000 mg/kg                                                                                           |

**Benzenesulfonic acid, 4-C10-14-alkyl derivatives, calcium salts:**

|                       |                                                                                              |
|-----------------------|----------------------------------------------------------------------------------------------|
| Acute oral toxicity   | : LD50 (Rat, female): > 2,000 - 5,000 mg/kg<br>Remarks: Based on data from similar materials |
| Acute dermal toxicity | : LD50 (Rat): > 2,000 mg/kg                                                                  |

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Method: OECD Test Guideline 402

Remarks: The test was conducted according to guideline  
Based on data from similar materials**Skin corrosion/irritation**

Repeated exposure may cause skin dryness or cracking.

**Components:****Distillates (petroleum), hydrotreated middle:**

Assessment : Repeated exposure may cause skin dryness or cracking.

**Alcohols, C12-14 ethoxylated:**

|         |                                        |
|---------|----------------------------------------|
| Species | : Rabbit                               |
| Result  | : No skin irritation                   |
| Remarks | : Based on data from similar materials |

**Bifenthrin:**

|         |                      |
|---------|----------------------|
| Species | : Rabbit             |
| Result  | : No skin irritation |

**Benzenesulfonic acid, 4-C10-14-alkyl derivatives, calcium salts:**

|         |                                                                                         |
|---------|-----------------------------------------------------------------------------------------|
| Species | : Rabbit                                                                                |
| Method  | : OECD Test Guideline 404                                                               |
| Result  | : Skin irritation                                                                       |
| Remarks | : The test was conducted according to guideline<br>Based on data from similar materials |

**Serious eye damage/eye irritation**

Causes serious eye damage.

**Components:****Distillates (petroleum), hydrotreated middle:**

Result : No eye irritation

**Alcohols, C12-14 ethoxylated:**

|         |                                        |
|---------|----------------------------------------|
| Species | : Rabbit                               |
| Result  | : Irreversible effects on the eye      |
| Remarks | : Based on data from similar materials |

**Bifenthrin:**

|         |                     |
|---------|---------------------|
| Species | : Rabbit            |
| Result  | : No eye irritation |

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**Respiratory or skin sensitisation****Skin sensitisation**

May cause an allergic skin reaction.

**Respiratory sensitisation**

Not classified based on available information.

**Components:****Distillates (petroleum), hydrotreated middle:**

|                 |                                          |
|-----------------|------------------------------------------|
| Test Type       | : Human repeat insult patch test (HRIPT) |
| Exposure routes | : Skin contact                           |
| Result          | : negative                               |

**Alcohols, C12-14 ethoxylated:**

|                 |                                        |
|-----------------|----------------------------------------|
| Test Type       | : Maximisation Test                    |
| Exposure routes | : Skin contact                         |
| Species         | : Guinea pig                           |
| Method          | : OECD Test Guideline 406              |
| Result          | : negative                             |
| Remarks         | : Based on data from similar materials |

**Bifenthrin:**

|                 |                           |
|-----------------|---------------------------|
| Test Type       | : Maximisation Test       |
| Exposure routes | : Skin contact            |
| Species         | : Guinea pig              |
| Method          | : OECD Test Guideline 406 |
| Result          | : positive                |

|            |                                                                                |
|------------|--------------------------------------------------------------------------------|
| Assessment | : Probability or evidence of low to moderate skin sensitisation rate in humans |
|------------|--------------------------------------------------------------------------------|

**Benzenesulfonic acid, 4-C10-14-alkyl derivatives, calcium salts:**

|                 |                                                                                         |
|-----------------|-----------------------------------------------------------------------------------------|
| Test Type       | : Maximisation Test                                                                     |
| Exposure routes | : Skin contact                                                                          |
| Species         | : Guinea pig                                                                            |
| Method          | : OECD Test Guideline 406                                                               |
| Result          | : negative                                                                              |
| Remarks         | : The test was conducted according to guideline<br>Based on data from similar materials |

**Chronic toxicity****Germ cell mutagenicity**

Not classified based on available information.

**Components:****Distillates (petroleum), hydrotreated middle:**

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Genotoxicity in vitro : Test Type: In vitro sister chromatid exchange assay in mammalian cells  
Result: negative

**Alcohols, C12-14 ethoxylated:**

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Method: OECD Test Guideline 471  
Result: negative  
Remarks: Based on data from similar materials

**Bifenthrin:**

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Result: negative

Test Type: In vitro mammalian cell gene mutation test  
Method: Regulation (EC) No. 440/2008, Annex, B.17  
Result: positive

Test Type: Chromosome aberration test in vitro  
Method: Directive 67/548/EEC, Annex V, B.10.  
Result: negative

Test Type: In vitro sister chromatid exchange assay in mammalian cells  
Method: OECD Test Guideline 479  
Result: negative

Genotoxicity in vivo : Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis)  
Species: Rat  
Application Route: Ingestion  
Method: Regulation (EC) No. 440/2008, Annex, B.11  
Result: negative

Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)  
Species: Mouse  
Application Route: Ingestion  
Method: OECD Test Guideline 474  
Result: negative

Test Type: Unscheduled DNA synthesis (UDS) test with mammalian liver cells in vivo  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 486  
Result: negative

**Benzenesulfonic acid, 4-C10-14-alkyl derivatives, calcium salts:**

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

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|                      |                                                                                                                                                                                                                                                                         |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      | Method: Regulation (EC) No. 440/2008, Annex, B.13/14 (Ames test)<br>Result: negative<br>Remarks: The test was conducted according to guideline<br>Based on data from similar materials                                                                                  |
|                      | Test Type: In vitro mammalian cell gene mutation test<br>Method: OECD Test Guideline 476<br>Result: negative<br>Remarks: The test was conducted equivalent or similar to guideline<br>Based on data from similar materials                                              |
|                      | Test Type: Chromosome aberration test in vitro<br>Method: OECD Test Guideline 473<br>Result: positive<br>Remarks: The test was conducted according to guideline<br>Based on data from similar materials                                                                 |
| Genotoxicity in vivo | : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)<br>Species: Mouse<br>Method: OECD Test Guideline 474<br>Result: negative<br>Remarks: The test was conducted equivalent or similar to guideline<br>Based on data from similar materials |

**Carcinogenicity**

Suspected of causing cancer.

**Components:****Bifenthrin:**

|                   |             |
|-------------------|-------------|
| Species           | : Mouse     |
| Application Route | : Ingestion |
| Exposure time     | : 104 weeks |
| Result            | : positive  |

|                              |                                                         |
|------------------------------|---------------------------------------------------------|
| Carcinogenicity - Assessment | : Limited evidence of carcinogenicity in animal studies |
|------------------------------|---------------------------------------------------------|

**Reproductive toxicity**

Not classified based on available information.

**Components:****Bifenthrin:**

|                      |                                                                                                                              |
|----------------------|------------------------------------------------------------------------------------------------------------------------------|
| Effects on fertility | : Test Type: Four-generation reproduction toxicity study<br>Species: Rat<br>Application Route: Ingestion<br>Result: negative |
|----------------------|------------------------------------------------------------------------------------------------------------------------------|

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|-------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Effects on foetal development | : Test Type: Fertility/early embryonic development<br>Species: Rat<br>Application Route: Ingestion<br>Result: negative |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------|

**Benzenesulfonic acid, 4-C10-14-alkyl derivatives, calcium salts:**

|                      |                                                                                                                                                                                |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Effects on fertility | : Test Type: Three-generation reproduction toxicity study<br>Species: Rat<br>Application Route: Ingestion<br>Result: negative<br>Remarks: Based on data from similar materials |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                               |                                                                                                                                                                                |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Effects on foetal development | : Test Type: Three-generation reproduction toxicity study<br>Species: Rat<br>Application Route: Ingestion<br>Result: negative<br>Remarks: Based on data from similar materials |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**STOT - single exposure**

Not classified based on available information.

**STOT - repeated exposure**

Causes damage to organs (Nervous system) through prolonged or repeated exposure.

**Components:****Bifenthrin:**

|                 |                                                                                                    |
|-----------------|----------------------------------------------------------------------------------------------------|
| Exposure routes | : Ingestion                                                                                        |
| Target Organs   | : Nervous system                                                                                   |
| Assessment      | : Shown to produce significant health effects in animals at concentrations of 10 mg/kg bw or less. |

**Repeated dose toxicity****Components:****Bifenthrin:**

|                   |             |
|-------------------|-------------|
| Species           | : Rat, male |
| NOAEL             | : 3.4 mg/kg |
| LOAEL             | : 7.5 mg/kg |
| Application Route | : Ingestion |
| Exposure time     | : 90 Days   |

**Benzenesulfonic acid, 4-C10-14-alkyl derivatives, calcium salts:**

|                   |              |
|-------------------|--------------|
| Species           | : Rat        |
| LOAEL             | : > 30 mg/kg |
| Application Route | : Ingestion  |
| Exposure time     | : 9 Months   |

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|                   |                                                                                         |
|-------------------|-----------------------------------------------------------------------------------------|
| Remarks           | : No test guideline followed<br>Based on data from similar materials                    |
| Species           | : Rat                                                                                   |
| LOAEL             | : > 600 mg/kg                                                                           |
| Application Route | : Skin contact                                                                          |
| Exposure time     | : 28 Days                                                                               |
| Method            | : OECD Test Guideline 410                                                               |
| Remarks           | : The test was conducted according to guideline<br>Based on data from similar materials |

**Aspiration toxicity**

May be fatal if swallowed and enters airways.

**Components:****Distillates (petroleum), hydrotreated middle:**

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

---

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Product:**

|                                     |                                                                                                                                                                              |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Toxicity to soil dwelling organisms | : (Eisenia fetida (earthworms)): > 16 mg/kg<br>Exposure time: 14 d                                                                                                           |
| Toxicity to terrestrial organisms   | : LD50 (Apis mellifera (bees)): 0.1 - 0.35 µg/kg<br>Exposure time: 24 hrs<br>Method: OECD Test Guideline 213<br><br>LD50 (Colinus virginianus (Bobwhite quail)): 1,800 mg/kg |

**Components:****Distillates (petroleum), hydrotreated middle:**

|                                                     |                                                                                       |
|-----------------------------------------------------|---------------------------------------------------------------------------------------|
| Toxicity to fish                                    | : LC50 (Oncorhynchus mykiss (rainbow trout)): > 87,556 mg/l<br>Exposure time: 96 h    |
| Toxicity to daphnia and other aquatic invertebrates | : EC50 (Daphnia magna (Water flea)): > 1,000 mg/l<br>Exposure time: 48 h              |
| Toxicity to algae/aquatic plants                    | : EC50 (Selenastrum capricornutum (green algae)): > 1,000 mg/l<br>Exposure time: 72 h |
| Toxicity to fish (Chronic tox-                      | : NOELR: > 1,000 mg/l                                                                 |

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|         |                |                |                                 |
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icity) Exposure time: 28 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOELR: 5 mg/l  
Exposure time: 21 d

Toxicity to microorganisms : EC50: > 100 mg/l  
Exposure time: 3 h

## Alcohols, C12-14 ethoxylated:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 1 - 10 mg/l  
Exposure time: 96 h  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1 - 10 mg/l  
Exposure time: 48 h  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): > 0.1 - 1 mg/l  
Exposure time: 21 d  
Remarks: Based on data from similar materials

## Bifenthrin:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.1 µg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.11 µg/l  
Exposure time: 48 h

Toxicity to fish (Chronic toxicity) : NOEC (Oncorhynchus mykiss (rainbow trout)): 0.012 µg/l  
Exposure time: 76 d  
Method: OECD Test Guideline 210

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.00095 µg/l  
Exposure time: 21 d

Toxicity to microorganisms : NOEC (activated sludge): > 1,929 mg/l  
Exposure time: 3 h  
Remarks: No toxicity at the limit of solubility

## Benzenesulfonic acid, 4-C10-14-alkyl derivatives, calcium salts:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): > 1 - 10 mg/l  
Exposure time: 96 h  
Method: OPPTS 850.1075  
Remarks: The test was conducted according to guideline  
Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1 - 10 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
Remarks: The test was conducted according to guideline

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|                                                                        |                                                                                                                                                                                                |
|------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                        | Based on data from similar materials                                                                                                                                                           |
| Toxicity to algae/aquatic plants                                       | : ErC50 (Raphidocelis subcapitata (freshwater green alga)): > 10 - 100 mg/l<br>Exposure time: 96 h<br>Remarks: Based on data from similar materials                                            |
|                                                                        | NOEC (Raphidocelis subcapitata (freshwater green alga)): > 0.1 - 1 mg/l<br>Exposure time: 96 h<br>Remarks: Based on data from similar materials                                                |
| Toxicity to fish (Chronic toxicity)                                    | : NOEC (Lepomis macrochirus (Bluegill sunfish)): > 0.1 - 1 mg/l<br>Exposure time: 28 d<br>Remarks: Based on data from similar materials                                                        |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : NOEC (Daphnia magna (Water flea)): > 1 mg/l<br>Exposure time: 21 d<br>Remarks: No test guideline followed<br>Based on data from similar materials                                            |
| Toxicity to microorganisms                                             | : NOEC (activated sludge): > 1 mg/l<br>Exposure time: 3 h<br>Method: OECD Test Guideline 209<br>Remarks: The test was conducted according to guideline<br>Based on data from similar materials |

**Persistence and degradability****Components:****Distillates (petroleum), hydrotreated middle:**

|                  |                                     |
|------------------|-------------------------------------|
| Biodegradability | : Result: Inherently biodegradable. |
|------------------|-------------------------------------|

**Alcohols, C12-14 ethoxylated:**

|                  |                                                                               |
|------------------|-------------------------------------------------------------------------------|
| Biodegradability | : Result: rapidly degradable<br>Remarks: Based on data from similar materials |
|------------------|-------------------------------------------------------------------------------|

**Bifenthrin:**

|                  |                                                                                                                         |
|------------------|-------------------------------------------------------------------------------------------------------------------------|
| Biodegradability | : Result: Not readily biodegradable.<br>Biodegradation: 11 %<br>Exposure time: 28 d<br>Method: OECD Test Guideline 301B |
|------------------|-------------------------------------------------------------------------------------------------------------------------|

**Benzenesulfonic acid, 4-C10-14-alkyl derivatives, calcium salts:**

|                  |                                                                                                                                                                        |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Biodegradability | : Result: Readily biodegradable.<br>Method: OECD Test Guideline 301B<br>Remarks: The test was conducted according to guideline<br>Based on data from similar materials |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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**II****Bioaccumulative potential****Components:****Alcohols, C12-14 ethoxylated:**

|                 |   |                                                                                                        |
|-----------------|---|--------------------------------------------------------------------------------------------------------|
| Bioaccumulation | : | Species: Fish<br>Bioconcentration factor (BCF): < 500<br>Remarks: Based on data from similar materials |
|-----------------|---|--------------------------------------------------------------------------------------------------------|

**Bifenthrin:**

|                 |   |                                                                         |
|-----------------|---|-------------------------------------------------------------------------|
| Bioaccumulation | : | Species: Cyprinus carpio (Carp)<br>Bioconcentration factor (BCF): 1,082 |
|-----------------|---|-------------------------------------------------------------------------|

|                                        |   |              |
|----------------------------------------|---|--------------|
| Partition coefficient: n-octanol/water | : | log Pow: > 6 |
|----------------------------------------|---|--------------|

**Mobility in soil**

No data available

**Other adverse effects**

No data available

**Endocrine disrupting properties**

No data available

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**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

|                        |   |                                                                                                                                                                                                                                               |
|------------------------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Waste from residues    | : | It is best to use all of the product in accordance with label directions. If it is necessary to dispose of unused product, please follow container label instructions and applicable local guidelines.<br>Do not dispose of waste into sewer. |
| Contaminated packaging | : | Follow advice on product label and/or leaflet.<br>Empty containers retain residue and can be dangerous.<br>Do not re-use empty containers.                                                                                                    |

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**SECTION 14. TRANSPORT INFORMATION****International Regulations****UNRTDG**

|                      |   |                                                                     |
|----------------------|---|---------------------------------------------------------------------|
| UN number            | : | UN 3082                                                             |
| Proper shipping name | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(Bifenthrin) |

**II**

|                           |   |     |
|---------------------------|---|-----|
| Class                     | : | 9   |
| Packing group             | : | III |
| Labels                    | : | 9   |
| Environmentally hazardous | : | yes |

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**IATA-DGR**

|                                          |                                                                       |
|------------------------------------------|-----------------------------------------------------------------------|
| UN/ID No.                                | : UN 3082                                                             |
| Proper shipping name                     | : Environmentally hazardous substance, liquid, n.o.s.<br>(Bifenthrin) |
| Class                                    | : 9                                                                   |
| Packing group                            | : III                                                                 |
| Labels                                   | : Miscellaneous                                                       |
| Packing instruction (cargo aircraft)     | : 964                                                                 |
| Packing instruction (passenger aircraft) | : 964                                                                 |
| Environmentally hazardous                | : yes                                                                 |

**IMDG-Code**

|                      |                                                                          |
|----------------------|--------------------------------------------------------------------------|
| UN number            | : UN 3082                                                                |
| Proper shipping name | : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,<br>N.O.S.<br>(Bifenthrin) |
| 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,<br>N.O.S.<br>(Bifenthrin) |
| Class                     | : 9                                                                      |
| Packing group             | : III                                                                    |
| Labels                    | : 9                                                                      |
| Hazchem Code              | : •3Z                                                                    |
| Environmentally hazardous | : yes                                                                    |

**Special precautions for user**

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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**SECTION 15. REGULATORY INFORMATION****Safety, health and environmental regulations/legislation specific for the substance or mixture**

|                                                 |                                                                                                                                  |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Therapeutic Goods (Poisons Standard) Instrument | : Schedule 6 (Please use the original publication to check for specific uses, specific conditions or threshold limits that might |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|

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Prohibition/Licensing Requirements : apply for this chemical)  
: There is no applicable prohibition, authorisation and restricted use requirements, including for carcinogens referred to in Schedule 10 of the model WHS Act and Regulations.

National Code of Practice for Chemicals of Security Concern : Not listed

Product Type : Insecticides, acaricides and products to control other arthropods

Active substance : 100 g/l  
Bifenthrin

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**SECTION 16: ANY OTHER RELEVANT INFORMATION****Further information**

Revision Date : 09.04.2026

Sources of key data used to compile the Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Date format : dd.mm.yyyy

**Full text of other abbreviations**

AU OEL : Australia. Workplace Exposure Standards for Airborne Contaminants.

AU OEL / TWA : Exposure standard - time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonised System; GLP - Good Laboratory Practice; 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; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardisation; KECI - Korea Existing Chemicals Inventory; 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; MERCOSUR - The Agreement for the Facilitation of the Transport of Dangerous Goods; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concen-

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tration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organisation for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; 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; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); 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

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 is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

AU / EN