

# Yates Baythroid Advanced Insect Killer For Gardens

## Yates (a part of Dulux Group)

Chemwatch: 16-77267

Version No: 5.1

Safety Data Sheet according to Work Health and Safety Regulations (Hazardous Chemicals) 2023 and ADG requirements

Chemwatch Hazard Alert Code: 3

Issue Date: 19/01/2024

Print Date: 19/04/2024

S.GHS.AUS.EN

### SECTION 1 Identification of the substance / mixture and of the company / undertaking

#### Product Identifier

|                               |                                                                         |
|-------------------------------|-------------------------------------------------------------------------|
| Product name                  | Yates Baythroid Advanced Insect Killer For Gardens                      |
| Chemical Name                 | Not Applicable                                                          |
| Synonyms                      | Baythroid Advanced Insect Killer for Gardens 50mL, 55354, 9310428553547 |
| Proper shipping name          | TOXIC LIQUID, ORGANIC, N.O.S. (contains cyfluthrin)                     |
| Chemical formula              | Not Applicable                                                          |
| Other means of identification | Not Available                                                           |

#### Relevant identified uses of the substance or mixture and uses advised against

|                          |              |
|--------------------------|--------------|
| Relevant identified uses | Insecticide. |
|--------------------------|--------------|

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

|                         |                                                                 |
|-------------------------|-----------------------------------------------------------------|
| Registered company name | Yates (a part of Dulux Group)                                   |
| Address                 | 1956 Dandenong Road Clayton Victoria 3168 Australia             |
| Telephone               | +61 130 036 9074                                                |
| Fax                     | Not Available                                                   |
| Website                 | <a href="http://www.yates.com.au/">http://www.yates.com.au/</a> |
| Email                   | company.info@duluxgroup.com.au                                  |

#### Emergency telephone number

|                                   |                                     |
|-----------------------------------|-------------------------------------|
| Association / Organisation        | CHEMWATCH EMERGENCY RESPONSE (24/7) |
| Emergency telephone numbers       | +61 1800 951 288                    |
| Other emergency telephone numbers | +61 3 9573 3188                     |

Once connected and if the message is not in your preferred language then please dial 01

### SECTION 2 Hazards identification

#### Classification of the substance or mixture

|                               |                                                                                                                                            |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Poisons Schedule              | S5                                                                                                                                         |
| Classification <sup>[1]</sup> | Acute Toxicity (Oral) Category 3, Acute Toxicity (Inhalation) Category 3, Hazardous to the Aquatic Environment Long-Term Hazard Category 1 |
| Legend:                       | 1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI        |

#### Label elements

|                     |                                                                                                                                                                         |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hazard pictogram(s) |   |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|             |        |
|-------------|--------|
| Signal word | Danger |
|-------------|--------|

Hazard statement(s)

|      |                                                       |
|------|-------------------------------------------------------|
| H301 | Toxic if swallowed.                                   |
| H331 | Toxic if inhaled.                                     |
| H410 | Very toxic to aquatic life with long lasting effects. |

Precautionary statement(s) Prevention

|      |                                                                 |
|------|-----------------------------------------------------------------|
| P264 | Wash all exposed external body areas thoroughly after handling. |
| P270 | Do not eat, drink or smoke when using this product.             |
| P271 | Use only a well-ventilated area.                                |
| P261 | Avoid breathing mist/vapours/spray.                             |

Precautionary statement(s) Response

|           |                                                                              |
|-----------|------------------------------------------------------------------------------|
| P301+P310 | IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician/first aider. |
| P330      | Rinse mouth.                                                                 |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing.   |
| P311      | Call a POISON CENTER/doctor/physician/first aider.                           |

Precautionary statement(s) Storage

|           |                                                                  |
|-----------|------------------------------------------------------------------|
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |
| P405      | Store locked up.                                                 |

Precautionary statement(s) Disposal

|      |                                                                                                                                  |
|------|----------------------------------------------------------------------------------------------------------------------------------|
| P501 | Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation. |
|------|----------------------------------------------------------------------------------------------------------------------------------|

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

| CAS No        | %[weight] | Name                                       |
|---------------|-----------|--------------------------------------------|
| 68359-37-5    | 2.38      | cyfluthrin                                 |
| Not Available | balance   | Ingredients determined not to be hazardous |

Legend: 1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L; \* EU IOELVs available

SECTION 4 First aid measures

Description of first aid measures

|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eye Contact  | <p>If this product comes in contact with the eyes:</p> <ul style="list-style-type: none"><li>Immediately hold eyelids apart and flush the eye continuously with running water.</li><li>Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li><li>Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.</li><li>Transport to hospital or doctor without delay.</li><li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li></ul> |
| Skin Contact | <p>If skin or hair contact occurs:</p> <ul style="list-style-type: none"><li>Quickly but gently, wipe material off skin with a dry, clean cloth.</li><li>Immediately remove all contaminated clothing, including footwear.</li><li>Wash skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre.</li><li>Transport to hospital, or doctor.</li></ul>                                                                                                                                                                                                                                |
| Inhalation   | <ul style="list-style-type: none"><li>If fumes or combustion products are inhaled remove from contaminated area.</li><li>Lay patient down. Keep warm and rested.</li><li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li><li>Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li></ul>                                                                                                                                            |

## Yates Baythroid Advanced Insect Killer For Gardens

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ingestion | <ul style="list-style-type: none"> <li>Transport to hospital, or doctor, without delay.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|           | <ul style="list-style-type: none"> <li><b>IF SWALLOWED, REFER FOR MEDICAL ATTENTION, WHERE POSSIBLE, WITHOUT DELAY.</b></li> <li>For advice, contact a Poisons Information Centre or a doctor.</li> <li>Urgent hospital treatment is likely to be needed.</li> <li>In the mean time, qualified first-aid personnel should treat the patient following observation and employing supportive measures as indicated by the patient's condition.</li> <li>If the services of a medical officer or medical doctor are readily available, the patient should be placed in his/her care and a copy of the SDS should be provided. Further action will be the responsibility of the medical specialist.</li> <li>If medical attention is not available on the worksite or surroundings send the patient to a hospital together with a copy of the SDS.</li> </ul> <p><b>Where medical attention is not immediately available or where the patient is more than 15 minutes from a hospital or unless instructed otherwise:</b></p> <ul style="list-style-type: none"> <li><b>INDUCE</b> vomiting with fingers down the back of the throat, <b>ONLY IF CONSCIOUS</b>. Lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> </ul> <p><b>NOTE:</b> Wear a protective glove when inducing vomiting by mechanical means.</p> |

## Indication of any immediate medical attention and special treatment needed

For chronic or short term repeated exposures to pyrethrum and synthetic pyrethroids:

- Mammalian toxicity of pyrethrum and synthetic pyrethroids is low, in part because of poor bioavailability and a large first pass extraction by the liver.
- The most common adverse reaction results from the potent sensitising effects of pyrethrins.
- Clinical manifestations of exposure include contact dermatitis (erythema, vesiculation, bullae); anaphylactoid reactions (pallor, tachycardia, diaphoresis) and asthma. **[Ellenhom Barceloux]**
- In cases of skin contact, it has been reported that topical application of Vitamin E Acetate (alpha-tocopherol acetate) has been found to have high therapeutic value, eliminating almost all skin pain associated with exposure to synthetic pyrethroids. **[Incitec]**

## SECTION 5 Firefighting measures

## Extinguishing media

- Water spray or fog.
- Foam.
- Dry chemical powder.
- BCF (where regulations permit).

## Special hazards arising from the substrate or mixture

|                      |                                                                                                                                                                                          |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fire Incompatibility | <ul style="list-style-type: none"> <li>Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result</li> </ul> |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Advice for firefighters

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fire Fighting         | <ul style="list-style-type: none"> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear full body protective clothing with breathing apparatus.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> <li>Use fire fighting procedures suitable for surrounding area.</li> </ul>                                                                                                                                                        |
| Fire/Explosion Hazard | <ul style="list-style-type: none"> <li>Combustible.</li> <li>Slight fire hazard when exposed to heat or flame.</li> <li>Heating may cause expansion or decomposition leading to violent rupture of containers.</li> <li>On combustion, may emit toxic fumes of carbon monoxide (CO).</li> </ul> <p>Combustion products include:<br/>carbon dioxide (CO<sub>2</sub>)<br/>nitrogen oxides (NO<sub>x</sub>)<br/>other pyrolysis products typical of burning organic material.<br/>May emit poisonous fumes.</p> |
| HAZCHEM               | 2X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

## SECTION 6 Accidental release measures

## Personal precautions, protective equipment and emergency procedures

See section 8

## Environmental precautions

See section 12

## Methods and material for containment and cleaning up

|              |                                                                                                                                                                          |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Minor Spills | <p>Environmental hazard - contain spillage.</p> <ul style="list-style-type: none"> <li>Remove all ignition sources.</li> <li>Clean up all spills immediately.</li> </ul> |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              | <ul style="list-style-type: none"><li>▶ Avoid breathing vapours and contact with skin and eyes.</li><li>▶ Control personal contact with the substance, by using protective equipment.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Major Spills | <p>Environmental hazard - contain spillage.</p> <ul style="list-style-type: none"><li>▶ Absorb or contain isothiazolinone liquid spills with sand, earth, inert material or vermiculite.</li><li>▶ The absorbent (and surface soil to a depth sufficient to remove all of the biocide) should be shovelled into a drum and treated with an 11% solution of sodium metabisulfite (Na2S2O5) or sodium bisulfite (NaHSO3), or 12% sodium sulfite (Na2SO3) and 8% hydrochloric acid (HCl).</li><li>▶ Glutathione has also been used to inactivate the isothiazolinones.</li><li>▶ Use 20 volumes of decontaminating solution for each volume of biocide, and let containers stand for at least 30 minutes to deactivate microbicide before disposal.</li></ul> |

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 Handling and storage

Precautions for safe handling

|                   |                                                                                                                                                                                                                                                                                                                                                           |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Safe handling     | <ul style="list-style-type: none"><li>▶ <b>DO NOT allow clothing wet with material to stay in contact with skin</b></li><li>▶ Avoid all personal contact, including inhalation.</li><li>▶ Wear protective clothing when risk of exposure occurs.</li><li>▶ Use in a well-ventilated area.</li><li>▶ Prevent concentration in hollows and sumps.</li></ul> |
| Other information | <ul style="list-style-type: none"><li>▶ Store in original containers.</li><li>▶ Keep containers securely sealed.</li><li>▶ No smoking, naked lights or ignition sources.</li><li>▶ Store in a cool, dry, well-ventilated area.</li></ul>                                                                                                                  |

Conditions for safe storage, including any incompatibilities

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable container      | <ul style="list-style-type: none"><li>▶ Glass container is suitable for laboratory quantities</li><li>▶ Lined metal can, lined metal pail/ can.</li><li>▶ Plastic pail.</li><li>▶ Polyliner drum.</li><li>▶ Packing as recommended by manufacturer.</li></ul> <p>For low viscosity materials</p> <ul style="list-style-type: none"><li>▶ Drums and jerricans must be of the non-removable head type.</li><li>▶ Where a can is to be used as an inner package, the can must have a screwed enclosure.</li></ul> <p>For materials with a viscosity of at least 2680 cSt. (23 deg. C) and solids (between 15 C deg. and 40 deg C.):</p> <ul style="list-style-type: none"><li>▶ Removable head packaging;</li><li>▶ Cans with friction closures and</li><li>▶ low pressure tubes and cartridges</li></ul> <p>may be used.</p> |
| Storage incompatibility | <p>Pyrethrins and permethrins:</p> <ul style="list-style-type: none"><li>▶ are unstable in the presence of light, heat, moisture and air</li><li>▶ are hydrolysed by oxygen and/ or sunlight</li><li>▶ may react with strong oxidisers to produce fire and explosions</li><li>▶ are incompatible with alkalis</li><li>▶ Avoid reaction with oxidising agents</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Not Available

Emergency Limits

| Ingredient                                         | TEEL-1        | TEEL-2        | TEEL-3        |
|----------------------------------------------------|---------------|---------------|---------------|
| Yates Baythroid Advanced Insect Killer For Gardens | Not Available | Not Available | Not Available |

| Ingredient | Original IDLH | Revised IDLH  |
|------------|---------------|---------------|
| cyfluthrin | Not Available | Not Available |

Occupational Exposure Banding

## Yates Baythroid Advanced Insect Killer For Gardens

| Ingredient | Occupational Exposure Band Rating                                                                                                                                                                                                                                                                                                                                         | Occupational Exposure Band Limit |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| cyfluthrin | E                                                                                                                                                                                                                                                                                                                                                                         | ≤ 0.01 mg/m <sup>3</sup>         |
| Notes:     | <b>Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.</b> |                                  |

## Exposure controls

|                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Appropriate engineering controls                                      | <p><b>For potent pharmacological agents:</b></p> <p><b>Solutions Handling:</b></p> <ul style="list-style-type: none"> <li>Solutions can be handled outside a containment system or without local exhaust ventilation during procedures with no potential for aerosolisation. If the procedures have a potential for aerosolisation, an air-purifying respirator is to be worn by all personnel in the immediate area.</li> <li>Solutions used for procedures where aerosolisation may occur (e.g., vortexing, pumping) are to be handled within a containment system or with local exhaust ventilation.</li> <li>In situations where this is not feasible (may include animal dosing), an air-purifying respirator is to be worn by all personnel in the immediate area.</li> </ul> <p><b>Unless written procedures, specific to the workplace are available, the following is intended as a guide:</b></p> <ul style="list-style-type: none"> <li><b>For Laboratory-scale handling of Substances assessed to be toxic by inhalation. Quantities of up to 25 grams</b> may be handled in Class II biological safety cabinets*; <b>Quantities of 25 grams to 1 kilogram</b> may be handled in Class II biological safety cabinets* or equivalent containment systems; <b>Quantities exceeding 1 kg</b> may be handled either using specific containment, a hood or Class II biological safety cabinet*.</li> <li>HEPA terminated local exhaust ventilation should be considered at point of generation of dust, fumes or vapours.</li> <li>The need for respiratory protection should also be assessed where incidental or accidental exposure is anticipated. Dependent on levels of contamination, PAPR, full face air purifying devices with P2 or P3 filters or air supplied respirators should be evaluated.</li> </ul> |
| Individual protection measures, such as personal protective equipment |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Eye and face protection                                               | <p>For laboratory, larger scale or bulk handling or where regular exposure in an occupational setting occurs:</p> <ul style="list-style-type: none"> <li>Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent]</li> <li>Face shield. Full face shield may be required for supplementary but never for primary protection of eyes</li> <li>Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lens or restrictions on use, should be created for each workplace or task.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Skin protection                                                       | See Hand protection below                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Hands/feet protection                                                 | <p><b>NOTE:</b></p> <ul style="list-style-type: none"> <li>The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.</li> <li>Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.</li> </ul> <p>The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.</p> <p>The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.</p> <p>Personal hygiene is a key element of effective hand care.</p> <ul style="list-style-type: none"> <li>Rubber gloves (nitrile or low-protein, powder-free latex, latex/ nitrile). Employees allergic to latex gloves should use nitrile gloves in preference.</li> <li>Double gloving should be considered.</li> <li>PVC gloves.</li> <li>Butyl rubber gloves</li> <li>Nitrile rubber gloves (Note: Nitric acid penetrates nitrile gloves in a few minutes.)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Body protection                                                       | See Other protection below                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Other protection                                                      | <ul style="list-style-type: none"> <li>For quantities up to 500 grams a laboratory coat may be suitable.</li> <li>For quantities up to 1 kilogram a disposable laboratory coat or coverall of low permeability is recommended. Coveralls should be buttoned at collar and cuffs.</li> <li>For quantities over 1 kilogram and manufacturing operations, wear disposable coverall of low permeability and disposable shoe covers.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

## Respiratory protection

Type A Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Selection of the Class and Type of respirator will depend upon the level of breathing zone contaminant and the chemical nature of the contaminant. Protection Factors (defined as the ratio of contaminant outside and inside the mask) may also be important.

| Required minimum protection factor | Maximum gas/vapour concentration present in air p.p.m. (by volume) | Half-face Respirator | Full-Face Respirator |
|------------------------------------|--------------------------------------------------------------------|----------------------|----------------------|
| up to 10                           | 1000                                                               | A-AUS / Class1       | -                    |
| up to 50                           | 1000                                                               | -                    | A-AUS / Class 1      |
| up to 50                           | 5000                                                               | Airline *            | -                    |

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|           |       |   |           |
|-----------|-------|---|-----------|
| up to 100 | 5000  | - | A-2       |
| up to 100 | 10000 | - | A-3       |
| 100+      |       |   | Airline** |

\* - Continuous Flow \*\* - Continuous-flow or positive pressure demand

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO<sub>2</sub>), G = Agricultural chemicals, K = Ammonia(NH<sub>3</sub>), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

- ▶ Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- ▶ The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- ▶ Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

## SECTION 9 Physical and chemical properties

### Information on basic physical and chemical properties

|                                                     |                                                                                   |                                                |                      |
|-----------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------|----------------------|
| <b>Appearance</b>                                   | White to light beige coloured liquid with characteristic odour; mixes with water. |                                                |                      |
| <b>Physical state</b>                               | Liquid                                                                            | <b>Relative density (Water = 1)</b>            | 1.05                 |
| <b>Odour</b>                                        | Slight                                                                            | <b>Partition coefficient n-octanol / water</b> | Not Available        |
| <b>Odour threshold</b>                              | Not Available                                                                     | <b>Auto-ignition temperature (°C)</b>          | Not Available        |
| <b>pH (as supplied)</b>                             | 4-5                                                                               | <b>Decomposition temperature (°C)</b>          | Not Available        |
| <b>Melting point / freezing point (°C)</b>          | Not Available                                                                     | <b>Viscosity (cSt)</b>                         | 571.429-952.381 @20C |
| <b>Initial boiling point and boiling range (°C)</b> | Not Available                                                                     | <b>Molecular weight (g/mol)</b>                | Not Applicable       |
| <b>Flash point (°C)</b>                             | >100                                                                              | <b>Taste</b>                                   | Not Available        |
| <b>Evaporation rate</b>                             | Not Available                                                                     | <b>Explosive properties</b>                    | Not Available        |
| <b>Flammability</b>                                 | Not Applicable                                                                    | <b>Oxidising properties</b>                    | Not Available        |
| <b>Upper Explosive Limit (%)</b>                    | Not Available                                                                     | <b>Surface Tension (dyn/cm or mN/m)</b>        | Not Available        |
| <b>Lower Explosive Limit (%)</b>                    | Not Available                                                                     | <b>Volatile Component (%vol)</b>               | Not Available        |
| <b>Vapour pressure (kPa)</b>                        | Not Available                                                                     | <b>Gas group</b>                               | Not Available        |
| <b>Solubility in water</b>                          | Miscible                                                                          | <b>pH as a solution (1%)</b>                   | Not Available        |
| <b>Vapour density (Air = 1)</b>                     | >1                                                                                | <b>VOC g/L</b>                                 | Not Available        |

## SECTION 10 Stability and reactivity

|                                           |                                                                                                                                                                                                      |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reactivity</b>                         | See section 7                                                                                                                                                                                        |
| <b>Chemical stability</b>                 | <ul style="list-style-type: none"> <li>▶ Unstable in the presence of incompatible materials.</li> <li>▶ Product is considered stable.</li> <li>▶ Hazardous polymerisation will not occur.</li> </ul> |
| <b>Possibility of hazardous reactions</b> | See section 7                                                                                                                                                                                        |
| <b>Conditions to avoid</b>                | See section 7                                                                                                                                                                                        |
| <b>Incompatible materials</b>             | See section 7                                                                                                                                                                                        |
| <b>Hazardous decomposition products</b>   | See section 5                                                                                                                                                                                        |

## SECTION 11 Toxicological information

### Information on toxicological effects

|                |                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhaled</b> | <p>Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may produce toxic effects.</p> <p>The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models). Nevertheless inhalation of vapours, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally, distress.</p> |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              | <p>Inhalation of pyrethrins may produce nausea, vomiting, sneezing, serious discharge from the nose, blocked nose and asthma. High concentrations may produce excessive excitement, inco-ordination, tremors, muscle paralysis and death (due to failure of breathing).</p> <p>This material, like natural pyrethrins, may cause central stimulation with nausea, vomiting, stomach upset, diarrhoea, hypersensitivity, inco-ordination, tremors, muscle paralysis, convulsion, coma and respiratory failure. Type II compounds cause a "Type II syndrome" characterized by irregular jerky movements, increased saliva production without tears, upper abdominal pain, nausea and vomiting, headache, dizziness, loss of appetite, tiredness, chest tightness, blurred vision, "pins and needles", palpitations, coarse muscle jerks in limbs and altered consciousness.</p>                                                                                                                                                                                                                                                                                                                                           |
| Ingestion    | <p><b>Severely toxic effects</b> may result from the accidental ingestion of the material; animal experiments indicate that ingestion of less than 5 gram may be fatal or may produce serious damage to the health of the individual.</p> <p>Ingestion of pyrethrins may produce nausea, vomiting, headache, muscle tremors, shock and perhaps death. Its fatal human dose is estimated at 100 grams per 70 kg man (1430 mg/kg).</p> <p>Taken by mouth, isothiazolinones have moderate to high toxicity. The major signs of toxicity are severe stomach irritation, lethargy, and inco-ordination.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Skin Contact | <p>There is some evidence to suggest that this material can cause inflammation of the skin on contact in some persons. Skin contact with natural pyrethrins may cause severe inflammation, hayfever and asthma. If they are absorbed through the skin, the same toxic effects as inhalation can occur; the liver and kidney may be damaged.</p> <p>Solutions of isothiazolinones may be irritating or even damaging to the skin, depending on concentration. A concentration of over 0.1% can irritate, and over 0.5% can cause severe irritation.</p> <p>Alpha-substituted synthetic pyrethroids can cause "pins and needles" of the skin with a stinging or burning sensation sometimes progressing to tingling and numbness. Tears, sensitivity to light and swelling of the eyes can occur on direct contact.</p> <p>Open cuts, abraded or irritated skin should not be exposed to this material</p> <p>Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.</p>                                                           |
| Eye          | <p>There is some evidence to suggest that this material can cause eye irritation and damage in some persons.</p> <p>Solutions containing isothiazolinones may damage the mucous membranes and cornea. Animal testing showed very low concentrations (under 0.1%) did not cause irritation, while higher levels (3-5.5%) produced severe irritation and damage to the eye.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Chronic      | <p>Repeated or long-term occupational exposure is likely to produce cumulative health effects involving organs or biochemical systems.</p> <p>Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed. This material can cause serious damage if one is exposed to it for long periods. It can be assumed that it contains a substance which can produce severe defects.</p> <p>There is some evidence that inhaling this product is more likely to cause a sensitisation reaction in some persons compared to the general population.</p> <p>There is limited evidence that, skin contact with this product is more likely to cause a sensitisation reaction in some persons compared to the general population.</p> <p>Chronic poisoning by natural pyrethrins may result in convulsion, paralysis with extreme muscle tone, rapid and uneven heart beat, liver and kidney damage, or death. Natural pyrethrins may cause hypersensitivity especially if past exposure has occurred. The isothiazolinones are known contact sensitisers. Sensitisation is more likely with the chlorinated species as opposed to the non-chlorinated species.</p> |

|                                                    |                                                      |               |
|----------------------------------------------------|------------------------------------------------------|---------------|
| Yates Baythroid Advanced Insect Killer For Gardens | TOXICITY                                             | IRRITATION    |
|                                                    | Not Available                                        | Not Available |
| cyfluthrin                                         | TOXICITY                                             | IRRITATION    |
|                                                    | dermal (rat) LD50: >5000 mg/kg <sup>[2]</sup>        | Not Available |
|                                                    | Inhalation(Mammal) LC50; 0.468 mg/L4h <sup>[2]</sup> |               |
|                                                    | Oral (Rat) LD50: 12.5 mg/kg <sup>[2]</sup>           |               |

Legend: 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CYFLUTHRIN | <p>NOEL (rats) 125 mg/kg (diet) 90 days. ADI 0.02 mg/kg b.w.</p> <p>Medications that act by sodium channel blockade have a wide variety of clinical applications. Broadly they include Vaughn Williams Class 1 antiarrhythmics, local anesthetics, many medications used to treat neuropathic pain (including tricyclic antidepressants (TCA)), anticonvulsants, and cocaine.</p> <p>Insecticides also cause sodium channel blockade. Toxicity of all these substances, whether intentional or accidental, can lead to catastrophic effects including death. It is essential to understand how these medications work, in order to effectively treat their toxicity and side effects.</p> <p>Sodium channel blocker toxicity results primarily from intentional overdose.</p> <p>Cyfluthrin is considered moderately toxic. Although it irritates skin, especially that of the face, it is not considered to be particularly toxic through skin contact. Poisonings are rare as it is quickly broken down and eliminated, and is poorly absorbed into the bloodstream. Very large doses in animal testing have caused irritability, excessive salivation, inco-ordination, tremors, convulsions and death.</p> |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                           |   |                 |   |
|---------------------------|---|-----------------|---|
| Acute Toxicity            | ✓ | Carcinogenicity | ✗ |
| Skin Irritation/Corrosion | ✗ | Reproductivity  | ✗ |

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|                                   |   |                          |   |
|-----------------------------------|---|--------------------------|---|
| Serious Eye Damage/Irritation     | ✗ | STOT - Single Exposure   | ✗ |
| Respiratory or Skin sensitisation | ✗ | STOT - Repeated Exposure | ✗ |
| Mutagenicity                      | ✗ | Aspiration Hazard        | ✗ |

Legend: ✗ – Data either not available or does not fill the criteria for classification  
✔ – Data available to make classification

SECTION 12 Ecological information

Toxicity

| Yates Baythroid Advanced Insect Killer For Gardens                                                                                                                                                                                                                                                                               | Endpoint      | Test Duration (hr) | Species                       | Value         | Source        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------------|-------------------------------|---------------|---------------|
|                                                                                                                                                                                                                                                                                                                                  | Not Available | Not Available      | Not Available                 | Not Available | Not Available |
| cyfluthrin                                                                                                                                                                                                                                                                                                                       | Endpoint      | Test Duration (hr) | Species                       | Value         | Source        |
|                                                                                                                                                                                                                                                                                                                                  | LC50          | 96h                | Fish                          | <0.001mg/L    | 4             |
|                                                                                                                                                                                                                                                                                                                                  | EC50(ECx)     | 96h                | Fish                          | <0.001mg/L    | 4             |
|                                                                                                                                                                                                                                                                                                                                  | EC50          | 96h                | Algae or other aquatic plants | 2.366mg/l     | 4             |
|                                                                                                                                                                                                                                                                                                                                  | EC50          | 48h                | Crustacea                     | <0.001mg/L    | 4             |
| Legend: Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data |               |                    |                               |               |               |

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.

Wastes resulting from use of the product must be disposed of on site or at approved waste sites.

Toxic to bees.

The environment can be exposed directly due to the outdoor use of biocides or as the result of indoor use followed by release to the sewage system after e.g. wet cleaning of a room in which a biocide is used. Upon this release a biocidal substance can pass a sewage treatment plant (STP) and, based on its physical chemical properties, partition to sewage sludge, which in turn can be used for soil amendments thereby releasing the substance into the soil compartment. Alternatively, the substance can remain in the water phase in the STP and subsequently end up in the water compartment such as surface water etc. Risk assessment for the environment focuses on protecting the environmental compartments (air, water and soil) by performing hazard assessments on key species, which represent the food chain within the specific compartment. Of special concern is a well functioning STP, which is elemental in many removal processes.

For synthetic pyrethroids:

Environmental Fate: Synthetic pyrethroids are examples of optimised insecticidal activity, selectivity and tailored environmental persistence. Through modifications of both acid and alcohol portions of the ester, compounds of desired residual activity have been synthesised whilst maintaining a biodegradable ester linkage. While these compounds are generally very toxic to crustaceans and fish in laboratory bio assays, under field conditions, the residues are tightly bound in sediment, and ingested residues are readily metabolised, resulting in their toxicity in natural systems generally being less than laboratory test data might indicate. They are generally non-persistent in the environment, as pyrethroid concentrations decrease rapidly due to sorption to sediment, suspended particles and plants. Substances containing unsaturated carbons are ubiquitous in indoor environments. They result from many sources (see below). Most are reactive with environmental ozone and many produce stable products which are thought to adversely affect human health. The potential for surfaces in an enclosed space to facilitate reactions should be considered.

Source of unsaturated substances      Unsaturated substances (Reactive Emissions)      Major Stable Products produced following reaction with ozone.

Environmental Fate: Isothiazolinones are antimicrobials used to control bacteria, fungi, and for wood preservation and antifouling agents. They are frequently used in personal care products such as shampoos and other hair care products, as well as certain paint formulations. The most common isothiazolinone combinations are 5-chloro-2-methyl-4-isothiazolin-3-one, (CMI), and 2-methyl-4-isothiazolin-3-one, (MI).

Aquatic Fate: 5-chloro-2-methyl-4-isothiazolin-3-one,(CMI), and 2-methyl-4-isothiazolin-3-one, (MI), undergo primary biological breakdown with half-lives of less than 24 hours in both oxygenated and low oxygen sediments with >55% breakdown occurring within 29 days.

**DO NOT discharge into sewer or waterways.**

Persistence and degradability

| Ingredient | Persistence: Water/Soil | Persistence: Air |
|------------|-------------------------|------------------|
| cyfluthrin | HIGH                    | HIGH             |

Bioaccumulative potential

| Ingredient | Bioaccumulation        |
|------------|------------------------|
| cyfluthrin | HIGH (LogKOW = 6.5756) |

Mobility in soil

| Ingredient | Mobility               |
|------------|------------------------|
| cyfluthrin | LOW (Log KOC = 178600) |

## SECTION 13 Disposal considerations

### Waste treatment methods

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product / Packaging disposal | <ul style="list-style-type: none"> <li>Containers may still present a chemical hazard/ danger when empty.</li> <li>Return to supplier for reuse/ recycling if possible.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                              | <p>Otherwise:</p> <ul style="list-style-type: none"> <li>If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.</li> <li>Where possible retain label warnings and SDS and observe all notices pertaining to the product.</li> </ul> <p>Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.</p> <p>A Hierarchy of Controls seems to be common - the user should investigate:</p> <ul style="list-style-type: none"> <li>Reduction</li> <li>Reuse</li> <li>Recycling</li> <li>Disposal (if all else fails)</li> </ul> <p>This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use.</p> <ul style="list-style-type: none"> <li><b>DO NOT allow wash water from cleaning or process equipment to enter drains.</b></li> <li>It may be necessary to collect all wash water for treatment before disposal.</li> <li>In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.</li> <li>Where in doubt contact the responsible authority.</li> <li>Recycle wherever possible or consult manufacturer for recycling options.</li> <li>Consult State Land Waste Authority for disposal.</li> <li>Bury or incinerate residue at an approved site.</li> <li>Recycle containers if possible, or dispose of in an authorised landfill.</li> </ul> |

## SECTION 14 Transport information

### Labels Required

|                  |                                                                                     |
|------------------|-------------------------------------------------------------------------------------|
|                  |  |
| Marine Pollutant |  |
| HAZCHEM          | 2X                                                                                  |

### Land transport (ADG)

|                                    |                                                     |                |
|------------------------------------|-----------------------------------------------------|----------------|
| 14.1. UN number or ID number       | 2810                                                |                |
| 14.2. UN proper shipping name      | TOXIC LIQUID, ORGANIC, N.O.S. (contains cyfluthrin) |                |
| 14.3. Transport hazard class(es)   | Class                                               | 6.1            |
|                                    | Subsidiary Hazard                                   | Not Applicable |
| 14.4. Packing group                | III                                                 |                |
| 14.5. Environmental hazard         | Environmentally hazardous                           |                |
| 14.6. Special precautions for user | Special provisions                                  | 223 274        |
|                                    | Limited quantity                                    | 5 L            |

### Air transport (ICAO-IATA / DGR)

|                                  |                                                       |                |
|----------------------------------|-------------------------------------------------------|----------------|
| 14.1. UN number                  | 2810                                                  |                |
| 14.2. UN proper shipping name    | Toxic liquid, organic, n.o.s. * (contains cyfluthrin) |                |
| 14.3. Transport hazard class(es) | ICAO/IATA Class                                       | 6.1            |
|                                  | ICAO / IATA Subsidiary Hazard                         | Not Applicable |
|                                  | ERG Code                                              | 6L             |

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|                                    |                                                           |            |
|------------------------------------|-----------------------------------------------------------|------------|
| 14.4. Packing group                | III                                                       |            |
| 14.5. Environmental hazard         | Environmentally hazardous                                 |            |
| 14.6. Special precautions for user | Special provisions                                        | A3 A4 A137 |
|                                    | Cargo Only Packing Instructions                           | 663        |
|                                    | Cargo Only Maximum Qty / Pack                             | 220 L      |
|                                    | Passenger and Cargo Packing Instructions                  | 655        |
|                                    | Passenger and Cargo Maximum Qty / Pack                    | 60 L       |
|                                    | Passenger and Cargo Limited Quantity Packing Instructions | Y642       |
|                                    | Passenger and Cargo Limited Maximum Qty / Pack            | 2 L        |

Sea transport (IMDG-Code / GGVSee)

|                                    |                                                     |                |
|------------------------------------|-----------------------------------------------------|----------------|
| 14.1. UN number                    | 2810                                                |                |
| 14.2. UN proper shipping name      | TOXIC LIQUID, ORGANIC, N.O.S. (contains cyfluthrin) |                |
| 14.3. Transport hazard class(es)   | IMDG Class                                          | 6.1            |
|                                    | IMDG Subsidiary Hazard                              | Not Applicable |
| 14.4. Packing group                | III                                                 |                |
| 14.5 Environmental hazard          | Marine Pollutant                                    |                |
| 14.6. Special precautions for user | EMS Number                                          | F-A , S-A      |
|                                    | Special provisions                                  | 223 274        |
|                                    | Limited Quantities                                  | 5 L            |

14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

| Product name | Group         |
|--------------|---------------|
| cyfluthrin   | Not Available |

14.7.3. Transport in bulk in accordance with the IGC Code

| Product name | Ship Type     |
|--------------|---------------|
| cyfluthrin   | Not Available |

SECTION 15 Regulatory information

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

cyfluthrin is found on the following regulatory lists

- Australia Chemicals with non-industrial uses removed from the Australian Inventory of Chemical Substances (old Inventory)
- Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals
- Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 2
- Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5
- Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6
- Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 7
- International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

Additional Regulatory Information

Not Applicable

National Inventory Status

| National Inventory                              | Status          |
|-------------------------------------------------|-----------------|
| Australia - AIIC / Australia Non-Industrial Use | Yes             |
| Canada - DSL                                    | No (cyfluthrin) |

| National Inventory            | Status                                                                                                                                                                                                          |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Canada - NDSL                 | No (cyfluthrin)                                                                                                                                                                                                 |
| China - IECSC                 | Yes                                                                                                                                                                                                             |
| Europe - EINEC / ELINCS / NLP | Yes                                                                                                                                                                                                             |
| Japan - ENCS                  | Yes                                                                                                                                                                                                             |
| Korea - KECI                  | Yes                                                                                                                                                                                                             |
| New Zealand - NZIoC           | Yes                                                                                                                                                                                                             |
| Philippines - PICCS           | Yes                                                                                                                                                                                                             |
| USA - TSCA                    | No (cyfluthrin)                                                                                                                                                                                                 |
| Taiwan - TCSI                 | Yes                                                                                                                                                                                                             |
| Mexico - INSQ                 | Yes                                                                                                                                                                                                             |
| Vietnam - NCI                 | Yes                                                                                                                                                                                                             |
| Russia - FBEPH                | Yes                                                                                                                                                                                                             |
| Legend:                       | <b>Yes = All CAS declared ingredients are on the inventory</b><br><b>No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.</b> |

SECTION 16 Other information

|               |            |
|---------------|------------|
| Revision Date | 19/01/2024 |
| Initial Date  | 16/07/2020 |

SDS Version Summary

| Version | Date of Update | Sections Updated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4.1     | 20/08/2021     | Classification change due to full database hazard calculation/update.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 5.1     | 19/01/2024     | Toxicological information - Acute Health (swallowed), Physical and chemical properties - Appearance, Toxicological information - Chronic Health, Hazards identification - Classification, Ecological Information - Environmental, Firefighting measures - Fire Fighter (extinguishing media), First Aid measures - First Aid (swallowed), Composition / information on ingredients - Ingredients, Identification of the substance / mixture and of the company / undertaking - Supplier Information, Identification of the substance / mixture and of the company / undertaking - Synonyms, Toxicological information - Toxicity and Irritation (Toxicity Figure), Transport Information |

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

Definitions and abbreviations

- PC - TWA: Permissible Concentration-Time Weighted Average
- PC - STEL: Permissible Concentration-Short Term Exposure Limit
- IARC: International Agency for Research on Cancer
- ACGIH: American Conference of Governmental Industrial Hygienists
- STEL: Short Term Exposure Limit
- TEEL: Temporary Emergency Exposure Limit,
- IDLH: Immediately Dangerous to Life or Health Concentrations
- ES: Exposure Standard
- OSF: Odour Safety Factor
- NOAEL: No Observed Adverse Effect Level
- LOAEL: Lowest Observed Adverse Effect Level
- TLV: Threshold Limit Value
- LOD: Limit Of Detection
- OTV: Odour Threshold Value
- BCF: BioConcentration Factors
- BEI: Biological Exposure Index
- DNEL: Derived No-Effect Level
- PNEC: Predicted no-effect concentration
  
- AIIC: Australian Inventory of Industrial Chemicals
- DSL: Domestic Substances List

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- NDSL: Non-Domestic Substances List
- IECSC: Inventory of Existing Chemical Substance in China
- EINECS: European INventory of Existing Commercial chemical Substances
- ELINCS: European List of Notified Chemical Substances
- NLP: No-Longer Polymers
- ENCS: Existing and New Chemical Substances Inventory
- KECI: Korea Existing Chemicals Inventory
- NZIoC: New Zealand Inventory of Chemicals
- PICCS: Philippine Inventory of Chemicals and Chemical Substances
- TSCA: Toxic Substances Control Act
- TCSI: Taiwan Chemical Substance Inventory
- INSQ: Inventario Nacional de Sustancias Químicas
- NCI: National Chemical Inventory
- FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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