

TEMPO RESIDUAL INSECTICIDE

Version 1.1 Revision Date: 29.07.2024 SDS Number: 11285939-00002 Date of last issue: 28.11.2023
Date of first issue: 28.11.2023

SECTION 1: IDENTIFICATION

Product name : TEMPO RESIDUAL INSECTICIDE
Product code : Article/SKU: 88584163; 85807331 UVP: 05130336 Specification: 102000007438

Manufacturer or supplier's details

Company : 2022 Environmental Science AU Pty Ltd
ABN 49 656 513 923
Address : Suite 2.06, Level 2, 737 Burwood Road
Hawthorn East, Australia 3123
Telephone : (03) 7019 3839
Emergency telephone number : +61 2 9037 2994


Recommended use of the chemical and restrictions on use

Recommended use : Insecticide
Restrictions on use : Not applicable

SECTION 2. HAZARDS IDENTIFICATION**GHS Classification**

Acute toxicity (Oral) : Category 4
Carcinogenicity : Category 1B
Effects on or via lactation

GHS label elements

Hazard pictograms : 
Signal word : Danger
Hazard statements : H302 Harmful if swallowed.
H350 May cause cancer.
H362 May cause harm to breast-fed children.
Precautionary statements : **Prevention:**

TEMPO RESIDUAL INSECTICIDE

| | | | |
|---------|----------------|----------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 28.11.2023 |
| 1.1 | 29.07.2024 | 11285939-00002 | Date of first issue: 28.11.2023 |

P201 Obtain special instructions before use.
 P202 Do not handle until all safety precautions have been read and understood.
 P263 Avoid contact during pregnancy and while nursing.
 P264 Wash skin thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.
 P308 + P313 IF exposed or concerned: Get medical advice/ attention.

Storage:

P405 Store locked up.

Disposal:

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

Other hazards which do not result in classification

Cutaneous sensations may occur, such as burning or stinging on the face and mucosae. However, these sensations cause no lesions and are of a transitory nature (max. 24 hours).

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Suspension concentrate (=flowable concentrate)(SC)

Components

| Chemical name | CAS-No. | Concentration (% w/w) |
|---|--------------|-----------------------|
| Glycerine | 56-81-5 | >= 10 -< 30 |
| Silica gel, precipitated, crystalline free | 112926-00-8 | < 10 |
| beta-Cyfluthrin (ISO) | 1820573-27-0 | >= 1 -< 10 |
| (Benzyloxy)methanol | 14548-60-8 | >= 0.1 -< 1 |
| Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | 55965-84-9 | >= 0.0015 -< 0.06 |

Alternative CAS Numbers for some regions

| Chemical name | Alternative CAS Number(s) |
|---|---------------------------|
| Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | 2682-20-4, 26172-55-4 |

SECTION 4. FIRST AID MEASURES

TEMPO RESIDUAL INSECTICIDE

| | | | |
|---------|----------------|----------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 28.11.2023 |
| 1.1 | 29.07.2024 | 11285939-00002 | Date of first issue: 28.11.2023 |

- General advice : In the case of accident or if you feel unwell, seek medical advice immediately.
When symptoms persist or in all cases of doubt seek medical advice.
- If inhaled : If inhaled, remove to fresh air.
Get medical attention.
- In case of skin contact : In case of contact, immediately flush skin with soap and plenty of water.
Remove contaminated clothing and shoes.
Get medical attention.
Wash clothing before reuse.
Thoroughly clean shoes before reuse.
- In case of eye contact : Flush eyes with water as a precaution.
Get medical attention if irritation develops and persists.
- If swallowed : If swallowed, DO NOT induce vomiting.
Get medical attention.
Rinse mouth thoroughly with water.
Never give anything by mouth to an unconscious person.
- Most important symptoms and effects, both acute and delayed : The product causes irritation of eyes, skin and mucous membranes.
Skin and eye paraesthesia which may be severe
Usually transient with resolution within 24 hours
Cough
sneezing
muscle twitching
discomfort in the chest
anorexia
lethargy
Pulmonary oedema
Prostration
Airway hyperreaction
Somnolence
Dizziness
Coma
Blurred vision
Convulsions
Headache
Nausea
Tremors
Diarrhoea
Vomiting
Palpitation
Abdominal pain
tachycardia
hypotension
Harmful if swallowed.
May cause cancer.
May cause harm to breast-fed children.

TEMPO RESIDUAL INSECTICIDE

| | | | |
|---------|----------------|----------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 28.11.2023 |
| 1.1 | 29.07.2024 | 11285939-00002 | Date of first issue: 28.11.2023 |

This product contains a pyrethroid.
Pyrethroid poisoning should not be confused with carbamate or organophosphate poisoning.

Protection of first-aiders : First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).

Notes to physician : There is no specific antidote available.
Initial treatment: symptomatic.
Oxygen or artificial respiration if needed.
Keep respiratory tract clear.
Monitor: respiratory and cardiac functions.
In case of ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is always advisable.
In case of convulsions, a benzodiazepine (e.g. diazepam) should be given according to standard regimens.
If not effective, phenobarbital may be used.
Contraindication: derivatives of adrenaline.
Contraindication: atropine.
Recovery is spontaneous and without sequelae.
In case of skin irritation, application of oils or lotions containing vitamin E may be considered.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water spray
Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical

Unsuitable extinguishing media : High volume water jet

Specific hazards during fire-fighting : Exposure to combustion products may be a hazard to health.

Hazardous combustion products : Carbon oxides
Chlorine compounds
Fluorine compounds
Nitrogen oxides (NO_x)

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Use water spray to cool unopened containers.
Remove undamaged containers from fire area if it is safe to do so.
Evacuate area.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment.

TEMPO RESIDUAL INSECTICIDE

| | | | |
|---------|----------------|----------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 28.11.2023 |
| 1.1 | 29.07.2024 | 11285939-00002 | Date of first issue: 28.11.2023 |

Hazchem Code : •3Z

SECTION 6. ACCIDENTAL RELEASE MEASURES

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

SECTION 7. HANDLING AND STORAGE

- Technical measures : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
- Local/Total ventilation : If sufficient ventilation is unavailable, use with local exhaust ventilation.
- Advice on safe handling : Avoid contact during pregnancy and while nursing. Do not get on skin or clothing. Do not breathe vapours or spray mist. Do not swallow. Avoid contact with eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment. Keep container tightly closed. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment.

TEMPO RESIDUAL INSECTICIDE

Version 1.1 Revision Date: 29.07.2024 SDS Number: 11285939-00002 Date of last issue: 28.11.2023
 Date of first issue: 28.11.2023

- Hygiene measures** : If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place.
 When using do not eat, drink or smoke.
 Wash contaminated clothing before re-use.
- Conditions for safe storage** : Keep in properly labelled containers.
 Store locked up.
 Keep tightly closed.
 Store in accordance with the particular national regulations.
- Materials to avoid** : Do not store with the following product types:
 Strong oxidizing agents

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

| Components | CAS-No. | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis |
|--|-------------|-------------------------------|--|--------|
| Glycerine | 56-81-5 | TWA (Mist) | 10 mg/m ³ | AU OEL |
| Silica gel, precipitated, crystalline free | 112926-00-8 | TWA | 10 mg/m ³ | AU OEL |

- Engineering measures** : Minimize workplace exposure concentrations.
 If sufficient ventilation is unavailable, use with local exhaust ventilation.

Personal protective equipment

- Respiratory protection** : If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.

- Filter type** : Combined particulates, inorganic gas/vapour and organic vapour type

Hand protection

- Material** : Nitrile rubber
Break through time : > 480 min
Glove thickness : > 0.4 mm
Protective index : Class 6

- Remarks** : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer.

TEMPO RESIDUAL INSECTICIDE

| | | | |
|---------|----------------|----------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 28.11.2023 |
| 1.1 | 29.07.2024 | 11285939-00002 | Date of first issue: 28.11.2023 |

er. Wash hands before breaks and at the end of workday.

Eye protection : Wear the following personal protective equipment:
Safety glasses

Skin and body protection : Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.
Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : suspension

Colour : light beige, white

Odour : characteristic, very faint

Odour Threshold : No data available

pH : 4 - 5 (23 °C)
Concentration: 100 %

Melting point/freezing point : No data available

Initial boiling point and boiling range : No data available

Flash point : > 100 °C
Method: DIN 51758

Evaporation rate : No data available

Flammability (solid, gas) : Not applicable

Flammability (liquids) : Not applicable

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapour pressure : No data available

TEMPO RESIDUAL INSECTICIDE

| | | | |
|---------|----------------|----------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 28.11.2023 |
| 1.1 | 29.07.2024 | 11285939-00002 | Date of first issue: 28.11.2023 |

| | | |
|--|---|--|
| Relative vapour density | : | No data available |
| Relative density | : | No data available |
| Density | : | ca. 1.05 g/cm ³ (20 °C) |
| Solubility(ies) | : | |
| Water solubility | : | completely miscible |
| Partition coefficient: n-octanol/water | : | Not applicable |
| Auto-ignition temperature | : | No data available |
| Decomposition temperature | : | No data available |
| Viscosity | : | |
| Viscosity, dynamic | : | 600 - 1,000 mPa.s (20 °C) |
| Viscosity, kinematic | : | No data available |
| Flow time | : | 43 - 60 s (20 °C) Method: DIN 53211 |
| Explosive properties | : | Not explosive |
| Oxidizing properties | : | The substance or mixture is not classified as oxidizing. |
| Particle characteristics | : | |
| Particle size | : | <= 5 µm |

SECTION 10. STABILITY AND REACTIVITY

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

SECTION 11. TOXICOLOGICAL INFORMATION

| | | |
|-----------------|---|------------|
| Exposure routes | : | Inhalation |
|-----------------|---|------------|

TEMPO RESIDUAL INSECTICIDE

| | | | |
|---------|----------------|----------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 28.11.2023 |
| 1.1 | 29.07.2024 | 11285939-00002 | Date of first issue: 28.11.2023 |

Skin contact
Ingestion
Eye contact

Acute toxicity

Harmful if swallowed.

Product:

Acute oral toxicity : Acute toxicity estimate: 465.25 mg/kg
Method: Calculation method

Acute inhalation toxicity : Assessment: The substance or mixture has no acute inhalation toxicity

Components:**Glycerine:**

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

Acute dermal toxicity : LD50 (Guinea pig): > 5,000 mg/kg

Silica gel, precipitated, crystalline free:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
Method: OECD Test Guideline 401
Remarks: Based on data from similar materials

Acute inhalation toxicity : LC50 (Rat): > 0.69 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg
Remarks: Based on data from similar materials

beta-Cyfluthrin (ISO):

Acute oral toxicity : LD50 (Rat): 11 mg/kg

Acute inhalation toxicity : LC50 (Rat): 0.081 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg
Method: OECD Test Guideline 402

(Benzyloxy)methanol:

Acute oral toxicity : LD50 (Rat, female): 812 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 0.502 mg/l

TEMPO RESIDUAL INSECTICIDE

| | | | |
|---------|----------------|----------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 28.11.2023 |
| 1.1 | 29.07.2024 | 11285939-00002 | Date of first issue: 28.11.2023 |

Exposure time: 4 h
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rat, male): 1,429 mg/kg

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1):

Acute oral toxicity : LD50 (Rat): 64 mg/kg

Acute inhalation toxicity : LC50 (Rat): 0.171 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Assessment: Corrosive to the respiratory tract.

Acute dermal toxicity : LD50 (Rabbit): 87.12 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Components:**Glycerine:**

Species : Rabbit
Result : No skin irritation

Silica gel, precipitated, crystalline free:

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation
Remarks : Based on data from similar materials

beta-Cyfluthrin (ISO):

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation

(Benzyloxy)methanol:

Species : Rabbit
Result : Skin irritation

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1):

Species : Rabbit
Method : OECD Test Guideline 404
Result : Corrosive after 1 to 4 hours of exposure

TEMPO RESIDUAL INSECTICIDE

| | | | |
|---------|----------------|----------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 28.11.2023 |
| 1.1 | 29.07.2024 | 11285939-00002 | Date of first issue: 28.11.2023 |

Serious eye damage/eye irritation

Not classified based on available information.

Components:**Glycerine:**

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

Silica gel, precipitated, crystalline free:

| | | |
|---------|---|--------------------------------------|
| Species | : | Rabbit |
| Result | : | No eye irritation |
| Method | : | OECD Test Guideline 405 |
| Remarks | : | Based on data from similar materials |

beta-Cyfluthrin (ISO):

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

(Benzyloxy)methanol:

| | | |
|---------|---|---------------------------------|
| Species | : | Rabbit |
| Result | : | Irreversible effects on the eye |

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1):

| | | |
|---------|---|---------------------------------|
| Result | : | Irreversible effects on the eye |
| Remarks | : | Based on skin corrosivity. |

Respiratory or skin sensitisation**Skin sensitisation**

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Product:

| | | |
|---------|---|------------------------------------|
| Species | : | Guinea pig |
| Method | : | OECD Test Guideline 406 |
| Result | : | Does not cause skin sensitisation. |

Components:**beta-Cyfluthrin (ISO):**

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

TEMPO RESIDUAL INSECTICIDE

Version 1.1 Revision Date: 29.07.2024 SDS Number: 11285939-00002 Date of last issue: 28.11.2023
Date of first issue: 28.11.2023

Result : negative

(Benzyloxy)methanol:

Test Type : Magnusson-Kligman-Test
Exposure routes : Skin contact
Species : Guinea pig
Result : positive

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

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1):

Test Type : Buehler Test
Exposure routes : Skin contact
Species : Guinea pig
Result : positive

Assessment : Probability or evidence of high skin sensitisation rate in humans

Chronic toxicity**Germ cell mutagenicity**

Not classified based on available information.

Components:**Glycerine:**

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test
Result: negative

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

Test Type: Chromosome aberration test in vitro
Result: negative

Test Type: DNA damage and repair, unscheduled DNA synthesis in mammalian cells (in vitro)
Result: negative

Silica gel, precipitated, crystalline free:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro
Result: negative
Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Rodent dominant lethal test (germ cell) (in vivo)
Species: Rat
Application Route: Ingestion

TEMPO RESIDUAL INSECTICIDE

| | | | |
|---------|----------------|----------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 28.11.2023 |
| 1.1 | 29.07.2024 | 11285939-00002 | Date of first issue: 28.11.2023 |

Result: negative
Remarks: Based on data from similar materials

beta-Cyfluthrin (ISO):

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

Test Type: Chromosome aberration test in vitro
Result: negative
Remarks: Based on data from similar materials

(Benzyloxy)methanol:

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

Test Type: In vitro mammalian cell gene mutation test
Result: positive
Remarks: Based on data from similar materials

Test Type: Chromosome aberration test in vitro
Result: positive
Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)
Species: Rat
Application Route: inhalation (vapour)
Result: positive
Remarks: Based on data from similar materials

Germ cell mutagenicity - Assessment : Positive result(s) from in vivo non-mammalian somatic cell mutagenicity tests, supported by positive results from in vitro mutagenicity assays.

Carcinogenicity

May cause cancer.

Components:**Glycerine:**

Species : Rat
Application Route : Ingestion
Exposure time : 2 Years
Result : negative

Silica gel, precipitated, crystalline free:

Species : Rat
Application Route : Ingestion
Exposure time : 103 weeks

TEMPO RESIDUAL INSECTICIDE

Version 1.1 Revision Date: 29.07.2024 SDS Number: 11285939-00002 Date of last issue: 28.11.2023
Date of first issue: 28.11.2023

Result : negative
Remarks : Based on data from similar materials

beta-Cyfluthrin (ISO):

Species : Mouse
Application Route : Ingestion
Exposure time : 18 Months
Result : negative
Remarks : Based on data from similar materials

(Benzyloxy)methanol:

Species : Rat
Application Route : Inhalation
Exposure time : 28 Months
Result : positive
Remarks : Based on data from similar materials

Carcinogenicity - Assessment : Sufficient evidence of carcinogenicity in animal experiments

Reproductive toxicity

May cause harm to breast-fed children.

Components:**Glycerine:**

Effects on fertility : Test Type: Two-generation reproduction toxicity study
Species: Rat
Application Route: Ingestion
Result: negative

Effects on foetal development : Test Type: Embryo-foetal development
Species: Rat
Application Route: Ingestion
Result: negative

Silica gel, precipitated, crystalline free:

Effects on foetal development : Test Type: Embryo-foetal development
Species: Rat
Application Route: Ingestion
Result: negative
Remarks: Based on data from similar materials

beta-Cyfluthrin (ISO):

Effects on fertility : Test Type: Two-generation reproduction toxicity study
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 416
Result: negative

TEMPO RESIDUAL INSECTICIDE

| | | | |
|---------|----------------|----------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 28.11.2023 |
| 1.1 | 29.07.2024 | 11285939-00002 | Date of first issue: 28.11.2023 |

Remarks: Based on data from similar materials

Effects on foetal development : Test Type: Fertility/early embryonic development
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 426
Result: negative

Reproductive toxicity - Assessment : Studies indicating a hazard to babies during the lactation period

(Benzyloxy)methanol:

Effects on foetal development : Test Type: Embryo-foetal development
Species: Mouse
Application Route: Ingestion
Result: negative
Remarks: Based on data from similar materials

STOT - single exposure

Not classified based on available information.

Product:

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

Components:**beta-Cyfluthrin (ISO):**

Exposure routes : Ingestion
Target Organs : Nervous system
Assessment : Shown to produce significant health effects in animals at concentrations of 300 mg/kg bw or less.

Exposure routes : Skin contact
Target Organs : Nervous system
Assessment : Shown to produce significant health effects in animals at concentrations of 1000 mg/kg bw or less.

STOT - repeated exposure

Not classified based on available information.

Components:**(Benzyloxy)methanol:**

Target Organs : Respiratory Tract
Assessment : Shown to produce significant health effects in animals at concentrations of >0.02 to 0.2 mg/l/6h/d.

TEMPO RESIDUAL INSECTICIDE

| | | | |
|---------|----------------|----------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 28.11.2023 |
| 1.1 | 29.07.2024 | 11285939-00002 | Date of first issue: 28.11.2023 |

Repeated dose toxicity**Components:****Glycerine:**

| | | |
|-------------------|---|-----------------------------|
| Species | : | Rat |
| NOAEL | : | 0.167 mg/l |
| LOAEL | : | 0.622 mg/l |
| Application Route | : | inhalation (dust/mist/fume) |
| Exposure time | : | 13 Weeks |

| | | |
|-------------------|---|----------------------|
| Species | : | Rat |
| NOAEL | : | 8,000 - 10,000 mg/kg |
| Application Route | : | Ingestion |
| Exposure time | : | 2 yr |

| | | |
|-------------------|---|--------------|
| Species | : | Rabbit |
| NOAEL | : | 5,040 mg/kg |
| Application Route | : | Skin contact |
| Exposure time | : | 45 Weeks |

Silica gel, precipitated, crystalline free:

| | | |
|-------------------|---|--------------------------------------|
| Species | : | Rat |
| NOAEL | : | > 4,500 mg/kg |
| Application Route | : | Ingestion |
| Exposure time | : | 90 Days |
| Remarks | : | Based on data from similar materials |

(Benzyloxy)methanol:

| | | |
|-------------------|---|--------------------------------------|
| Species | : | Rat |
| LOAEL | : | > 0.02 - 0.2 mg/l |
| Application Route | : | inhalation (dust/mist/fume) |
| Exposure time | : | 90 Days |
| Remarks | : | Based on data from similar materials |

Aspiration toxicity

Not classified based on available information.

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Components:****Glycerine:**

| | | |
|---|---|--|
| Toxicity to fish | : | LC50 (Oncorhynchus mykiss (rainbow trout)): 54,000 mg/l Exposure time: 96 h |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): 1,955 mg/l Exposure time: 48 h |

TEMPO RESIDUAL INSECTICIDE

| | | | |
|---------|----------------|----------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 28.11.2023 |
| 1.1 | 29.07.2024 | 11285939-00002 | Date of first issue: 28.11.2023 |

Toxicity to microorganisms : NOEC (*Pseudomonas putida*): > 10,000 mg/l
Exposure time: 16 h
Method: DIN 38 412 Part 8

Silica gel, precipitated, crystalline free:

Toxicity to fish : LL50 (*Danio rerio* (zebra fish)): > 10,000 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EL50 (*Daphnia magna* (Water flea)): > 1,000 mg/l
Exposure time: 24 h
Method: OECD Test Guideline 202
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : EL50 (*Scenedesmus subspicatus*): > 10,000 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: Based on data from similar materials

beta-Cyfluthrin (ISO):

Toxicity to fish : LC50 (*Oncorhynchus mykiss* (rainbow trout)): 0.068 µg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Hyalella azteca* (Amphipod)): > 0.0001 - 0.001 µg/l
Exposure time: 48 h
Remarks: Based on data from similar materials

Toxicity to fish (Chronic toxicity) : NOEC (*Oncorhynchus mykiss* (rainbow trout)): > 0.001 - 0.01 µg/l
Exposure time: 58 d
Remarks: Based on data from similar materials

(Benzyloxy)methanol:

Toxicity to fish : EC50 : 81.5 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 43 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : ErC50 (*Desmodesmus subspicatus* (green algae)): 17.7 mg/l
Exposure time: 72 h

Toxicity to microorganisms : EC50 (activated sludge): > 10 - 100 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209
Remarks: Based on data from similar materials

TEMPO RESIDUAL INSECTICIDE

| | | | |
|---------|----------------|----------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 28.11.2023 |
| 1.1 | 29.07.2024 | 11285939-00002 | Date of first issue: 28.11.2023 |

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1):

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.19 mg/l
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 0.16 mg/l
aquatic invertebrates Exposure time: 48 h

Toxicity to algae/aquatic : ErC50 (Skeletonema costatum (marine diatom)): 0.0052 mg/l
plants Exposure time: 48 h

NOEC (Skeletonema costatum (marine diatom)): 0.00049 mg/l
Exposure time: 48 h

Toxicity to fish (Chronic tox- : NOEC (Pimephales promelas (fathead minnow)): 0.02 mg/l
icity) Exposure time: 36 d

Toxicity to daphnia and other : NOEC (Daphnia magna (Water flea)): 0.10 mg/l
aquatic invertebrates (Chron- Exposure time: 21 d
ic toxicity)

Persistence and degradability**Components:****Glycerine:**

Biodegradability : Result: Readily biodegradable.
Biodegradation: 92 %
Exposure time: 30 d
Method: OECD Test Guideline 301D

(Benzyloxy)methanol:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 100 %
Exposure time: 18 d
Method: OECD Test Guideline 301E

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1):

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 62 %
Exposure time: 28 d
Method: OECD Test Guideline 301B

Bioaccumulative potential**Components:****Glycerine:**

Partition coefficient: n- : log Pow: -1.75

TEMPO RESIDUAL INSECTICIDE

| | | | |
|---------|----------------|----------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 28.11.2023 |
| 1.1 | 29.07.2024 | 11285939-00002 | Date of first issue: 28.11.2023 |

octanol/water

beta-Cyfluthrin (ISO):

Bioaccumulation : Species: *Lepomis macrochirus* (Bluegill sunfish)
 Bioconcentration factor (BCF): 1,508
 Method: OECD Test Guideline 305

Partition coefficient: n-octanol/water : log Pow: 5.8 - 5.9

(Benzyloxy)methanol:

Partition coefficient: n-octanol/water : log Pow: 0.31 - 1.3
 Remarks: Calculation

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1):

Partition coefficient: n-octanol/water : log Pow: < 1

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS
Disposal methods

Waste from residues : It is best to use all of the product in accordance with label directions. If it is necessary to dispose of unused product, please follow container label instructions and applicable local guidelines.
 Do not dispose of waste into sewer.

Contaminated packaging : Follow advice on product label and/or leaflet.
 Empty containers retain residue and can be dangerous.
 Do not re-use empty containers.

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

UN number : UN 3082
 Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
 (beta-Cyfluthrin (ISO), Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-

TEMPO RESIDUAL INSECTICIDE

| | | | |
|---------|----------------|----------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 28.11.2023 |
| 1.1 | 29.07.2024 | 11285939-00002 | Date of first issue: 28.11.2023 |

isothiazol-3-one [EC no. 220-239-6] (3:1)

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

IATA-DGR

UN/ID No. : UN 3082
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.
(beta-Cyfluthrin (ISO), Reaction mass of: 5-chloro-2-methyl-4-
isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-
isothiazol-3-one [EC no. 220-239-6] (3:1)

Class : 9
Packing group : III
Labels : Miscellaneous
Packing instruction (cargo aircraft) : 964
Packing instruction (passenger aircraft) : 964
Environmentally hazardous : yes

IMDG-Code

UN number : UN 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.
(beta-Cyfluthrin (ISO), Reaction mass of: 5-chloro-2-methyl-4-
isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-
isothiazol-3-one [EC no. 220-239-6] (3:1)

Class : 9
Packing group : III
Labels : 9
EmS Code : F-A, S-F
Marine pollutant : yes

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations**ADG**

UN number : UN 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.
(beta-Cyfluthrin (ISO), Reaction mass of: 5-chloro-2-methyl-4-
isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-
isothiazol-3-one [EC no. 220-239-6] (3:1)

Class : 9
Packing group : III
Labels : 9
Hazchem Code : •3Z
Environmentally hazardous : yes

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based on the properties of the unpackaged material as it is described within this Safety Data

TEMPO RESIDUAL INSECTICIDE

| | | | |
|---------|----------------|----------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 28.11.2023 |
| 1.1 | 29.07.2024 | 11285939-00002 | Date of first issue: 28.11.2023 |

Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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

Therapeutic Goods (Poisons Standard) Instrument : Schedule 5 (Please use the original publication to check for specific uses, specific conditions or threshold limits that might apply for this chemical)

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

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

Active substance : 25 g/l
beta-Cyfluthrin (ISO)

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

Revision Date : 29.07.2024

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

Date format : dd.mm.yyyy

Full text of other abbreviations

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

AU OEL / TWA : Exposure standard - time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory con-

TEMPO RESIDUAL INSECTICIDE

| | | | |
|---------|----------------|----------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 28.11.2023 |
| 1.1 | 29.07.2024 | 11285939-00002 | Date of first issue: 28.11.2023 |

centration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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

AU / EN