

# SAFETY DATA SHEET

## HOMEGUARD TERMIFLEX



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### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : HOMEGUARD TERMIFLEX

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

Recommended use : Termiticidal Adhesive / Sealant to protect structures from concealed termite entry.

Restrictions on use : Use as recommended by the label.

#### Manufacturer or supplier's details

Company : FMC Australasia Pty Ltd

Address : Building B, Level 2, 12 Julius Avenue,  
North Ryde NSW 2113  
Australia

Telephone : +6161029887900

Telefax : +61610298870911

E-mail address : SDS-Info@fmc.com

Emergency telephone number : For leak, fire, spill or accident emergencies, call:  
1800 033 111 (Ixm)

Medical emergency:  
1 800 033 111 (Transport and 24 h Medical information)

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### SECTION 2. HAZARDS IDENTIFICATION

#### GHS Classification

Flammable liquids : Category 2

Skin corrosion/irritation : Category 2

Serious eye damage/eye irritation : Category 1

Specific target organ toxicity - single exposure : Category 3 (Central nervous system)

Aspiration hazard : Category 1

#### GHS label elements

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Hazard pictograms

:



Signal word

: Danger

Hazard statements

: H225 Highly flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H336 May cause drowsiness or dizziness.

Precautionary statements

: **Prevention:**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233 Keep container tightly closed.  
P240 Ground and bond container and receiving equipment.  
P241 Use explosion-proof electrical/ ventilating/ lighting equipment.  
P242 Use non-sparking tools.  
P243 Take action to prevent static discharges.  
P261 Avoid breathing mist or vapours.  
P264 Wash skin thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

**Response:**

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.  
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.  
P331 Do NOT induce vomiting.  
P332 + P313 If skin irritation occurs: Get medical advice/ attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

**Storage:**

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P403 + P235 Store in a well-ventilated place. Keep cool.  
P405 Store locked up.

**Disposal:**

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

### Other hazards which do not result in classification

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Components

Chemical name	CAS-No.	Concentration (% w/w)
bifenthrin (ISO)	82657-04-3	< 1
Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha	64742-49-0	>= 30 -< 60
cyclohexanone	108-94-1	>= 30 -< 60
Distillates (petroleum), hydro- treated light; Kerosine — unspecified	64742-47-8	>= 10 -< 30

## SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.  
Consult a physician.  
Show this safety data sheet to the doctor in attendance.  
Symptoms of poisoning may appear several hours later.  
Do not leave the victim unattended.
- If inhaled : Consult a physician after significant exposure.  
If unconscious, place in recovery position and seek medical advice.
- In case of skin contact : If skin irritation persists, call a physician.  
If on skin, rinse well with water.  
If on clothes, remove clothes.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.  
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Continue rinsing eyes during transport to hospital.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
Do NOT induce vomiting.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Take victim immediately to hospital.

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Most important symptoms and effects, both acute and delayed : May be fatal if swallowed and enters airways.  
Causes skin irritation.  
Causes serious eye damage.  
May cause drowsiness or dizziness.

Notes to physician : Treat symptomatically.

### SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

Unsuitable extinguishing media : High volume water jet

Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Carbon oxides

Specific extinguishing methods : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
For safety reasons in case of fire, cans should be stored separately in closed containments.  
Use a water spray to cool fully closed containers.

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Hazchem Code : •3YE

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Ensure adequate ventilation.  
Remove all sources of ignition.  
Evacuate personnel to safe areas.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

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**SECTION 7. HANDLING AND STORAGE**

- Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material.  
Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).  
Use only explosion-proof equipment.  
Keep away from open flames, hot surfaces and sources of ignition.
- Advice on safe handling : Avoid formation of aerosol.  
Do not breathe vapours/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Take precautionary measures against static discharges.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Open drum carefully as content may be under pressure.  
To avoid spills during handling keep bottle on a metal tray.  
Dispose of rinse water in accordance with local and national regulations.  
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
- Hygiene measures : When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.
- Conditions for safe storage : No smoking.  
Keep container tightly closed in a dry and well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Observe label precautions.  
Electrical installations / working materials must comply with the technological safety standards.
- Further information on storage stability : No decomposition if stored and applied as directed.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Components with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
cyclohexanone	108-94-1	TWA	25 ppm 100 mg/m3	AU OEL
Further information: Skin absorption				
		TWA	20 ppm	ACGIH

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		STEL	50 ppm	ACGIH
Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha	64742-49-0	TWA	900 mg/m <sup>3</sup>	AU OEL
Distillates (petroleum), hydro-treated light; Kerosine — unspecified	64742-47-8	TWA	200 mg/m <sup>3</sup> (total hydrocarbon vapor)	ACGIH

### Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
cyclohexanone	108-94-1	1,2-Cyclohexanediol	Urine	End of shift at end of work-week	80 mg/l	ACGIH BEI
		Cyclohexanol	Urine	End of shift (As soon as possible after exposure ceases)	8 mg/l	ACGIH BEI

### Personal protective equipment

Respiratory protection : In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

Hand protection  
Material : Wear chemical resistant gloves, such as barrier laminate, butyl rubber or nitrile rubber.

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles  
Wear face-shield and protective suit for abnormal processing problems.

Skin and body protection : Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : gel

Colour : colourless

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Odour : aromatic, hydrocarbon-like

Boiling point/boiling range : 110 °C

Flash point : 4 °C

Relative density : 0.92

Solubility(ies)  
Water solubility : insoluble

Viscosity  
Viscosity, kinematic : > 500000 mm<sup>2</sup>/s

### SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : No decomposition if stored and applied as directed.

Possibility of hazardous reactions : No decomposition if stored and applied as directed.  
Vapours may form explosive mixture with air.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : Strong oxidizing agents  
Strong bases  
Strong acids

Hazardous decomposition products : Stable under recommended storage conditions.

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Not classified based on available information.

#### Product:

Acute oral toxicity : Acute toxicity estimate: > 2,000 mg/kg  
Method: Calculation method

Acute inhalation toxicity : LC50: > 5 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: Calculation method  
Assessment: The substance or mixture has no acute inhalation toxicity

#### Components:

bifenthrin (ISO):

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Acute oral toxicity : LD50 (Rat, male and female): 50.2 - 58.8 mg/kg  
Symptoms: Convulsions, Tremors

Acute inhalation toxicity : LC50 (Rat, female): 0.6 - 1.2 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Symptoms: Tremors, Convulsions

LC50 (Rat, male): 1.10 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Symptoms: Tremors, Fatality

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg  
Remarks: no mortality

**Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:**

Acute oral toxicity : LD50 (Rat, male and female): > 5,840 mg/kg  
Remarks: Based on data from similar materials

Acute inhalation toxicity : LC50 (Rat, male and female): > 23.3 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403  
Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rat, male and female): > 2,800 mg/kg  
Remarks: Based on data from similar materials

**cyclohexanone:**

Acute oral toxicity : LD50 (Rat): 1,890 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): > 6.2 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Assessment: The component/mixture is moderately toxic after short term inhalation.

**Distillates (petroleum), hydro- treated light; Kerosine — unspecified:**

Acute oral toxicity : LD50 (Rat, male and female): > 15,000 mg/kg  
Method: OECD Test Guideline 423  
Remarks: Based on data from similar materials

Acute inhalation toxicity : LC0 (Rat, male and female): > 5.28 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403  
Remarks: Based on data from similar materials  
no mortality

Acute dermal toxicity : LD50 (Rabbit, male and female): > 5,000 mg/kg



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Method: OECD Test Guideline 402  
Remarks: Based on data from similar materials

### **Skin corrosion/irritation**

Causes skin irritation.

#### **Product:**

Remarks : Extremely corrosive and destructive to tissue.

#### **Components:**

##### **bifenthrin (ISO):**

Species : Rabbit  
Result : slight or no skin irritation.  
GLP : yes

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : slight or no skin irritation.  
GLP : yes

##### **Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : Skin irritation  
Remarks : Based on data from similar materials

##### **cyclohexanone:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : Skin irritation

Remarks : Extremely corrosive and destructive to tissue.

##### **Distillates (petroleum), hydro- treated light; Kerosine — unspecified:**

Assessment : Repeated exposure may cause skin dryness or cracking.

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

Causes serious eye damage.

#### **Product:**

Remarks : May cause irreversible eye damage.

#### **Components:**

##### **bifenthrin (ISO):**

Species : Rabbit  
Result : Slight or no eye irritation  
Method : OECD Test Guideline 405  
GLP : yes

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**Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:**

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

**cyclohexanone:**

Result	:	Irreversible effects on the eye
Method	:	Hen egg chorioallantoic membrane bioassay
Remarks	:	May cause irreversible eye damage.

**Distillates (petroleum), hydro- treated light; Kerosine — unspecified:**

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

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

Not classified based on available information.

**Respiratory sensitisation**

Not classified based on available information.

**Product:**

Remarks	:	Causes sensitisation.
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**Components:****bifenthrin (ISO):**

Test Type	:	Maximisation Test
Exposure routes	:	Skin contact
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	May cause sensitisation by skin contact.
GLP	:	yes

**Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:**

Test Type	:	Maximisation Test
Exposure routes	:	Skin contact
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	Does not cause skin sensitisation.
Remarks	:	Based on data from similar materials

**Distillates (petroleum), hydro- treated light; Kerosine — unspecified:**

Test Type	:	Maximisation Test
Exposure routes	:	Intradermal
Species	:	Guinea pig
Result	:	Does not cause skin sensitisation.

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Remarks : Based on data from similar materials

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

Not classified based on available information.

**Components:****bifenthrin (ISO):**

Genotoxicity in vitro : Test Type: gene mutation test  
Test system: Chinese hamster ovary cells  
Metabolic activation: with and without metabolic activation  
Result: negative

Test Type: reverse mutation assay  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

Test Type: Mouse lymphoma assay  
Metabolic activation: with and without metabolic activation  
Result: negative

Genotoxicity in vivo : Test Type: Sex-linked Recessive Lethal Test  
Species: Drosophila melanogaster (vinegar fly)  
Result: negative

Test Type: unscheduled DNA synthesis assay  
Species: Rat  
Method: OECD Test Guideline 486  
Result: negative

**Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:**

Genotoxicity in vitro : Test Type: reverse mutation assay  
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

Test Type: gene mutation test  
Result: negative  
Remarks: Based on data from similar materials

**cyclohexanone:**

Genotoxicity in vitro : Test Type: in vitro DNA damage and/or repair study  
Test system: human diploid fibroblasts  
Method: OECD Test Guideline 482  
Result: negative

Test Type: reverse mutation assay

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Method: OECD Test Guideline 471

Result: negative

Test Type: In vitro mammalian cell gene mutation test

Method: OECD Test Guideline 476

Result: negative

Genotoxicity in vivo

: Test Type: chromosome aberration assay

Species: Rat (male and female)

Application Route: inhalation (vapour)

Method: OECD Test Guideline 475

Result: negative

Test Type: dominant lethal test

Species: Rat (male and female)

Application Route: inhalation (vapour)

Method: OECD Test Guideline 478

Result: negative

Species: Drosophila melanogaster (vinegar fly) (male and female)

Application Route: Inhalation

Method: OECD Test Guideline 477

Result: negative

Germ cell mutagenicity -  
Assessment

: Weight of evidence does not support classification as a germ cell mutagen.

### **Distillates (petroleum), hydro- treated light; Kerosine — unspecified:**

Genotoxicity in vitro

: Test Type: reverse mutation assay

Method: OECD Test Guideline 471

Result: negative

Remarks: Based on data from similar materials

Genotoxicity in vivo

: Test Type: Micronucleus test

Species: Mouse (male and female)

Application Route: Intraperitoneal injection

Result: negative

Remarks: Based on data from similar materials

### **Carcinogenicity**

Not classified based on available information.

### **Components:**

#### **bifenthrin (ISO):**

Species : Rat, female

Application Route : Oral

Exposure time : 2 Years

NOAEL : 3 mg/kg bw/day

Result : negative

Species : Mouse, male

Application Route : Oral

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Exposure time : 18 month(s)  
NOAEL : 7.6 mg/kg bw/day  
Result : positive  
Symptoms : malignant tumors

### **cyclohexanone:**

Species : Rat  
Application Route : Oral  
Exposure time : 104 weeks  
Dose : (462 and 910 mg/kg/d)  
LOAEL : 3,300 ppm  
Result : positive

Carcinogenicity - Assessment : Weight of evidence does not support classification as a carcinogen

### **Distillates (petroleum), hydro- treated light; Kerosine — unspecified:**

Species : Rat, male  
Application Route : inhalation (vapour)  
Exposure time : 105 weeks  
NOAEC : 0.138 mg/l  
Result : positive  
Remarks : Based on data from similar materials

Carcinogenicity - Assessment : The observed tumors do not appear to be relevant for men.

### **Reproductive toxicity**

Not classified based on available information.

### **Components:**

#### **bifenthrin (ISO):**

Effects on fertility : Test Type: Two-generation study  
Species: Rat  
Application Route: Oral  
General Toxicity - Parent: NOAEL: 3 mg/kg bw/day  
General Toxicity F1: NOAEL: 5 mg/kg bw/day  
Result: negative

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rabbit  
Application Route: Oral  
General Toxicity Maternal: NOAEL: 2.7 mg/kg bw/day  
Teratogenicity: NOAEL: 2.7 mg/kg bw/day  
Symptoms: Maternal effects  
Result: No teratogenic effects

Test Type: Embryo-foetal development  
Species: Rat  
Application Route: Oral  
General Toxicity Maternal: NOAEL: 1 mg/kg bw/day  
Teratogenicity: NOAEL: 2 mg/kg bw/day

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Result: No teratogenic effects

Species: Rat

Application Route: Oral

General Toxicity Maternal: LOAEL: 7.2 mg/kg bw/day

Developmental Toxicity: LOAEL: 7.2 mg/kg bw/day

Embryo-foetal toxicity: NOEL: 9.0 mg/kg bw/day

Method: OECD Test Guideline 426

Result: Animal testing did not show any effects on fertility.,  
Some evidence of adverse effects on development, based on animal experiments.

**Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:**

Effects on fertility : Test Type: Two-generation study  
Species: Rat  
Application Route: Inhalation  
Result: negative  
Remarks: Based on data from similar materials

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

**cyclohexanone:**

Effects on fertility : Test Type: Two-generation study  
Species: Rat  
Application Route: inhalation (vapour)  
Dose: 1.02, 2.04, 4.1 mg/l  
General Toxicity - Parent: NOAEC: 4.1 mg/l  
General Toxicity F1: NOAEC: 2.04 mg/l  
General Toxicity F2: NOAEC: 2.04 mg/l  
Result: negative

Effects on foetal development : Species: Rabbit  
Application Route: Oral  
Dose: 50, 250, 500 mg/kg b.w.  
General Toxicity Maternal: NOAEL: 250 mg/kg body weight  
Teratogenicity: NOAEL: 500 mg/kg body weight  
Method: OECD Test Guideline 414  
Result: No teratogenic effects

Reproductive toxicity - Assessment : Animal testing did not show any effects on fertility.

**Distillates (petroleum), hydro- treated light; Kerosine — unspecified:**

Effects on fertility : Test Type: Fertility  
Species: Rat, male and female  
Application Route: inhalation (vapour)  
Duration of Single Treatment: 14 Weeks  
General Toxicity - Parent: NOAEC: 2.2 mg/l

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Result: negative

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rat  
Application Route: Oral  
General Toxicity Maternal: NOAEL: 500 mg/kg body weight  
Teratogenicity: NOAEL: 2,000 mg/kg body weight  
Remarks: Developmental effects are a consequence of maternal toxicity.

### STOT - single exposure

May cause drowsiness or dizziness.

#### Components:

##### **bifenthrin (ISO):**

Target Organs : Central nervous system  
Assessment : Causes damage to organs.

##### **Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:**

Assessment : May cause drowsiness or dizziness.

### STOT - repeated exposure

Not classified based on available information.

#### Components:

##### **bifenthrin (ISO):**

Target Organs : Central nervous system  
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 1.

##### **cyclohexanone:**

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

##### **Distillates (petroleum), hydro- treated light; Kerosine — unspecified:**

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

### Repeated dose toxicity

#### Components:

##### **bifenthrin (ISO):**

Species : Rat, male and female  
NOEL : 100 ppm  
Application Route : Oral - feed  
Exposure time : 90 d  
Remarks : No toxicologically significant effects were found.

Species : Dog, male and female

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NOEL : 2.5 mg/kg bw/day  
Application Route : Oral - feed  
Exposure time : 13 w  
Symptoms : Tremors

### **cyclohexanone:**

Species : Rat, male and female  
NOAEL : 143 mg/kg  
Application Route : Oral  
Exposure time : 90 d  
Dose : 40, 143 and 407 mg/kg b.w.  
Method : OECD Test Guideline 408

### **Distillates (petroleum), hydro- treated light; Kerosine — unspecified:**

Species : Rat  
NOAEL :  $\geq 200$  ppm  
Application Route : inhalation (vapour)  
Exposure time : 13 weeks  
Remarks : Based on data from similar materials

### **Aspiration toxicity**

May be fatal if swallowed and enters airways.

### **Components:**

#### **bifenthrin (ISO):**

The substance does not have properties associated with aspiration hazard potential.

### **Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:**

May be fatal if swallowed and enters airways.

### **Distillates (petroleum), hydro- treated light; Kerosine — unspecified:**

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

### **Further information**

#### **Product:**

Remarks : Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.  
Concentrations substantially above the TLV value may cause narcotic effects.  
Solvents may degrease the skin.



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## SECTION 12. ECOLOGICAL INFORMATION

## Ecotoxicity

Components:**bifenthrin (ISO):**

- |  |   |   |
|--|---|---|
| Toxicity to fish   | : | LC50 ( <i>Salmo gairdneri</i> ): 0.00015 mg/l<br>Exposure time: 96 h<br>Test Type: flow-through test<br><br>LC50 ( <i>Lepomis macrochirus</i> (Bluegill sunfish)): 0.00035 mg/l<br>Exposure time: 96 h<br>Test Type: flow-through test<br><br>LC50 ( <i>Oncorhynchus mykiss</i> (rainbow trout)): 0.000256 mg/l<br>Exposure time: 96 h<br>Test Type: semi-static test<br>Method: OECD Test Guideline 203<br>GLP: yes<br><br>LC50 ( <i>Pimephales promelas</i> (fathead minnow)): 0.000234 mg/l<br>Exposure time: 96 h<br>Test Type: semi-static test<br>Method: OECD Test Guideline 203<br>GLP: yes |
| Toxicity to daphnia and other aquatic invertebrates                    | : | EC50 ( <i>Daphnia</i> (water flea)): 0.00011 mg/l<br>Exposure time: 48 h<br><br>LC50 ( <i>Daphnia</i> (water flea)): 0.0016 mg/l<br>Exposure time: 48 h   |
| Toxicity to algae/aquatic plants                                       | : | EC50 (algae): 0.822 mg/l<br>Exposure time: 72 h   |
| Toxicity to fish (Chronic toxicity)                                    | : | NOEC ( <i>Oncorhynchus mykiss</i> (rainbow trout)): 0.00012 mg/l<br>Exposure time: 21 d   |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOEC ( <i>Daphnia magna</i> (Water flea)): 0.0013 µg/l<br>Exposure time: 21 d<br><br>NOEC ( <i>Daphnia magna</i> (Water flea)): 0.00095 µg/l<br>Exposure time: 21 d   |
| Toxicity to soil dwelling organisms                                    | : | LD50 ( <i>Eisenia fetida</i> (earthworms)): > 16 mg/kg<br>Exposure time: 14 d   |
| Toxicity to terrestrial organisms                                      | : | LD50 ( <i>Colinus virginianus</i> (Bobwhite quail)): 1,800 mg/kg<br><br>LD50 ( <i>Anas platyrhynchos</i> (Mallard duck)): > 2,150 mg/kg   |

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LD50 (Apis mellifera (bees)): 0.1 - 0.35 µg/bee  
Exposure time: 24 h  
End point: Acute oral toxicity  
Method: OECD Test Guideline 213

LD50 (Apis mellifera (bees)): 0.1 - 0.3 µg/bee  
Exposure time: 24 h  
End point: Acute contact toxicity  
Method: OECD Test Guideline 214

**Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:**

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): > 13.4 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Method: OECD Test Guideline 203  
Remarks: water accommodated fractions (WAF)

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): 3 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202  
Remarks: Based on data from similar materials water accommodated fractions (WAF)

Toxicity to algae/aquatic plants : EL50 (Pseudokirchneriella subcapitata (green algae)): 10 - 30 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials water accommodated fractions (WAF)

NOELR (Pseudokirchneriella subcapitata (green algae)): 10 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials water accommodated fractions (WAF)

Toxicity to fish (Chronic toxicity) : NOELR (Oncorhynchus mykiss (rainbow trout)): 1.534 mg/l  
Exposure time: 28 d  
Method: QSAR  
Remarks: water accommodated fractions (WAF)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.17 mg/l  
Exposure time: 21 d  
Test Type: semi-static test  
Method: OECD Test Guideline 211  
Remarks: Based on data from similar materials water accommodated fractions (WAF)

Toxicity to microorganisms : NOEC (Tetrahymena pyriformis): 5.999 mg/l  
Exposure time: 48 h

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Test Type: Growth inhibition

**cyclohexanone:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 527 - 732 mg/l  
Exposure time: 96 h  
Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

NOEC (Desmodesmus subspicatus (green algae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

Toxicity to microorganisms : EC50 (activated sludge): > 1,000 mg/l  
Exposure time: 30 min  
Method: OECD Test Guideline 209

**Distillates (petroleum), hydro- treated light; Kerosine — unspecified:**

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): > 1,000 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Remarks: water accommodated fractions (WAF)

Toxicity to daphnia and other aquatic invertebrates : LL50 (Daphnia magna (Water flea)): > 10,000 mg/l  
Exposure time: 48 h  
Test Type: static test  
Remarks: water accommodated fractions (WAF)

Toxicity to algae/aquatic plants : NOELR (Pseudokirchneriella subcapitata (green algae)): > 1,000 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201

EL50 (Pseudokirchneriella subcapitata (green algae)): > 1,000 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity) : NOELR (Oncorhynchus mykiss (rainbow trout)): 0.173 mg/l  
Exposure time: 28 d  
Method: QSAR  
Remarks: No toxicity at the limit of solubility

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water accommodated fractions (WAF)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOELR (Daphnia magna (Water flea)): 1.22 mg/l  
Exposure time: 21 d  
Method: QSAR  
Remarks: No toxicity at the limit of solubility water accommodated fractions (WAF)

Toxicity to microorganisms : EL50 (Tetrahymena pyriformis): > 1,000 mg/l  
Exposure time: 48 h  
Method: QSAR

### Persistence and degradability

#### Components:

##### **bifenthrin (ISO):**

Biodegradability : Result: Not readily biodegradable.

##### **Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:**

Biodegradability : aerobic  
Inoculum: activated sludge, non-adapted  
Result: Readily biodegradable.  
Biodegradation: 98 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F  
Remarks: Based on data from similar materials

##### **cyclohexanone:**

Biodegradability : Result: Readily biodegradable.  
Method: OECD Test Guideline 301F

##### **Distillates (petroleum), hydro- treated light; Kerosine — unspecified:**

Biodegradability : Concentration: 50 mg/l  
Result: Readily biodegradable.  
Biodegradation: 89.9 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301

### Bioaccumulative potential

#### Components:

##### **bifenthrin (ISO):**

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)  
Bioconcentration factor (BCF): 1,709  
Remarks: Due to the distribution coefficient n-octanol/water, accumulation in organisms is possible.  
See section 9 for octanol-water partition coefficient.

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

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### **Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:**

Partition coefficient: n-octanol/water	:	log Pow: 4.5
Remarks: Based on data from similar materials		

### **cyclohexanone:**

Partition coefficient: n-octanol/water	:	log Pow: 0.86 (25 °C)
--	---	-----------------------

### **Distillates (petroleum), hydro- treated light; Kerosine — unspecified:**

Bioaccumulation	:	Bioconcentration factor (BCF): 144.3
Method: QSAR		

### **Mobility in soil**

#### **Components:**

### **bifenthrin (ISO):**

Distribution among environmental compartments	:	Koc: 236610 ml/g, log Koc: 5.37
Remarks: immobile		

### **Other adverse effects**

#### **Product:**

Additional ecological information	:	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.
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#### **Components:**

### **cyclohexanone:**

Additional ecological information	:	No data available
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## SECTION 13. DISPOSAL CONSIDERATIONS

### **Disposal methods**

Waste from residues	:	The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.
Contaminated packaging	:	Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

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### SECTION 14. TRANSPORT INFORMATION

#### International Regulations

##### UNRTDG

UN number	: UN 1133
Proper shipping name	: ADHESIVES
Class	: 3
Packing group	: II
Labels	: 3

##### IATA-DGR

UN/ID No.	: UN 1133
Proper shipping name	: Adhesives
Class	: 3
Packing group	: II
Labels	: Flammable Liquids
Packing instruction (cargo aircraft)	: 364
Packing instruction (passenger aircraft)	: 353

##### IMDG-Code

UN number	: UN 1133
Proper shipping name	: ADHESIVES
Class	: 3
Packing group	: II
Labels	: 3
EmS Code	: F-E, S-D
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 1133
Proper shipping name	: ADHESIVES
Class	: 3
Packing group	: II
Labels	: 3
Hazchem Code	: •3YE

#### Special precautions for user

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

### SECTION 15. REGULATORY INFORMATION

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

Standard for the Uniform	: Schedule 6
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Scheduling of Medicines and Poisons

APVMA Approval no.: 58471

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.

### The components of this product are reported in the following inventories:

TCSI	: On the inventory, or in compliance with the inventory
TSCA	: Product contains substance(s) not listed on TSCA inventory.
AIIC	: Not in compliance with the inventory
DSL	: This product contains the following components that are not on the Canadian DSL nor NDSL.  bifenthrin (ISO)
ENCS	: Not in compliance with the inventory
ISHL	: Not in compliance with the inventory
KECI	: On the inventory, or in compliance with the inventory
PICCS	: Not in compliance with the inventory
IECSC	: On the inventory, or in compliance with the inventory
NZIoC	: Not in compliance with the inventory

## SECTION 16. OTHER INFORMATION

Revision Date	: 10.05.2023
Date format	: dd.mm.yyyy

### Full text of other abbreviations

ACGIH	: USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI	: ACGIH - Biological Exposure Indices (BEI)
AU OEL	: Australia. Workplace Exposure Standards for Airborne Contaminants.
ACGIH / TWA	: 8-hour, time-weighted average
ACGIH / STEL	: Short-term exposure limit

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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 concentration; 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

### Disclaimer

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