

Safety Data Sheet

BASF Safety Data Sheet

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Product: TERMIDOR® 100 SC

1. Substance / Preparation and Company Identification

TERMIDOR® 100 SC

Company:

BASF New Zealand Limited
P.O. Box 407, Auckland 1140.
Phone: + 64 9 255 4300
Fax: + 64 9 255 4307
E-mail address: reception.nz@basf.com

Emergency information:

National Poisons Centre: 0800 764 766

BASF Emergency Advice Number: 0800 944 955 (24 hour advice in an emergency only)

2. Hazard Identification

Hazard Classification:

6.1D, 6.9B, 9.1A, 9.3B, 9.4A

Priority Identifier:

WARNING. Keep out of reach of children

Secondary Identifiers:

- 6.1D Harmful. This substance may be harmful if swallowed, inhaled or absorbed through the skin.
 - 6.9B May cause damage to the nervous system from repeated oral exposure at high doses.
 - 9.1A Very toxic to aquatic life with long lasting effects. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent aquatic sites.
 - 9.3B Toxic to terrestrial vertebrates.
 - 9.4A Very toxic to terrestrial invertebrates. Toxic to bees.
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3. Composition/Information on Ingredients

Chemical nature

Insecticide, suspension concentrate (SC)

Hazardous ingredients

Fipronil

Content (W/W): 9.4 %
CAS Number: 120068-37-3
EC-Number: 424-610-5
Hazard symbol(s): T, N
R-phrases: 23/24/25, 48/25, 50/53

Sodium alkyl-naphthalene sulphonate, formaldehyde condensate

Content (W/W): >= 1.7 % - <= 2.3 %
Hazard symbol(s): Xi
R-phrases: 36/38

The wording of the hazard symbols and R-phrases is specified in chapter 16 if dangerous ingredients are mentioned.

4. First-Aid Measures

General advice:

Avoid contact with the skin, eyes and clothing. Take off immediately all contaminated clothing. First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). If difficulties occur: Obtain medical attention. Show container, label and/or safety data sheet to physician.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

On skin contact:

After contact with skin, wash immediately with plenty of water and soap. If irritation develops, seek medical attention.

On contact with eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:

Rinse mouth immediately and then drink plenty of water, seek medical attention. Do not induce vomiting unless told to by a Poison Control Centre or doctor. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.

Note to physician:

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

Suitable extinguishing media:

Water spray, water fog, carbon dioxide, foam, dry extinguishing media.

Specific hazards: Carbon monoxide, hydrogen chloride, hydrogen fluoride, nitrogen oxides, organochloric compounds, sulfur oxides. The substances/groups of substances mentioned can be released in case of fire.

Special protective equipment:

Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:

In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. Accidental Release Measures

Personal precautions:

Use personal protective clothing. Avoid contact with the skin, eyes and clothing. Remove contaminated clothes, undergarments and shoes immediately.

Environmental precautions:

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater.

Methods for cleaning up or taking up:

For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).

For large amounts: Dike spillage. Pump off product.

Cleaning operations should be carried out only while wearing breathing apparatus. Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations.

7. Handling and Storage

Handling

No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas.

APPROVED HANDLER:

This product must be under the personal control of an APPROVED HANDLER when used in a wide dispersive manner or by a commercial contractor.

Protection against fire and explosion:

No special precautions necessary. The substance/product is non-combustible.

Storage

Segregate from foods and animal feeds.

Suitable materials for containers: High density polyethylene (HDPE)

Further information on storage conditions: Keep away from heat. Protect against moisture.

Protect from direct sunlight. Keep container tightly closed in a cool, well-ventilated place.

Storage stability:

Storage duration: 24 Months

Protect from temperatures above: 40 °C
Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

AGGREGATE STORAGE VOLUME THRESHOLDS:

When stored with substances of the same hazard the aggregate quantity must be considered. For full details refer to the current standard NZS8409 Management of Agrichemicals or the HSNO Regulations.

Location Certificate*:	Hazardous Atmosphere Zone*:	Fire Extinguishers:	Signage [Hazard Class & Emergency Action]:	Emergency Information:	Emergency Response Plan:	Secondary Containment:
NA	NA	NA	100 litres	0.1 litres	100 litres	100 litres

* Note: Farms \geq 4 ha are exempt but with controls.

DO NOT STORE OR LOAD WITH:

Class 1 Explosive

SEGREGATE FROM:

Foodstuffs or Food Containers

Segregation: In store separate by at least 5 metres, on transport separate by at least 3 metres, in both cases horizontally. On vehicles a segregation device may be used: Check the Land Transport Rule Dangerous Goods, Rule 45001 for additional information. Sea transport may require additional segregation. Refer to NZS5433 Sea Segregation for details.

RECORD KEEPING

Written records of use must be kept.

NOTE: Storage, application and record keeping must be as described in the current version of the New Zealand Standard for the Management of Agrichemicals NZS8409.

8. Exposure Controls and Personal Protection

Personal protective equipment

Respiratory protection:

Respiratory protection in case of vapour/aerosol release. Wear respiratory protection if ventilation is inadequate. Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2)

Hand protection:

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) and other.

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures:

The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Avoid contact with the skin, eyes and clothing. Wearing of closed work clothing is recommended. Take off immediately all

contaminated clothing. Store work clothing separately. Keep away from food, drink and animal feeding stuffs. No eating, drinking, smoking or tobacco use at the place of work. Hands and/or face should be washed before breaks and at the end of the shift.

9. Physical and chemical properties

Form: viscous
Colour: light brown
Odour: odourless
pH value: 7.2 (as aqueous solution)
Flash point: > 97.4 °C
Density: 1.061 g/cm³ (25 °C)
Solubility in water: dispersible

10. Stability and reactivity

Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.

Substances to avoid: No substances known that should be avoided.

Hazardous reactions: No hazardous reactions if stored and handled as prescribed/indicated.

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

11. Toxicological information

Acute toxicity

LD50 rat (oral): > 1,999 mg/kg
LC50 rat (by inhalation): > 1.7 mg/l 4 h
LD50 rabbit (dermal): > 2,000 mg/kg

Irritation

Primary skin irritation rabbit: Irritant.
Primary irritations of the mucous membrane rabbit: Irritant.

Sensitization

Guinea pig: Skin sensitizing effects were not observed in animal studies.

Other relevant toxicity information

Misuse can be harmful to health.

Other relevant toxicity information

Misuse can be harmful to health.

12. Ecological information

Ecotoxicity

Information on: *fipronil*

Toxicity to fish:

LC50 (96 h) 0.25 mg/l, *Oncorhynchus mykiss*

LC50 (96 h) 0.0852 mg/l, *Lepomis macrochirus*

LC50 (96 h) 0.43 mg/l, *Cyprinus carpio*

Information on: *fipronil*

Aquatic invertebrates:

EC50 (48 h) 0.19 mg/l, *Daphnia magna*

Information on: *fipronil*

Aquatic plants:

EC50 (96 h) 0.068 mg/l (biomass), *Scenedesmus subspicatus*

Persistence and degradability

Information on: *fipronil*

Elimination information:

Not readily biodegradable (by OECD criteria).

Additional information

Other ecotoxicological advice:

Do not discharge product into the environment without control. The ecological data given are those of the active ingredient.

13. Disposal considerations

To avoid disposal all attempts should be made to use this product completely, in accordance with its approved use. If this is not possible handle with care and dispose of in a safe manner. Follow all applicable community, regional and national regulations regarding waste management methods.

Container:

Triple rinse empty container and add residue to the spray tank. Recycle through Agrecovery (0800 247 326, www.agrecovery.co.nz). Otherwise crush and bury in a suitable landfill. Do NOT REUSE empty container.

Product:

Dispose of this product only by using according to the label or at an approved landfill. Do NOT burn product. Do NOT contaminate surface water with chemical or empty container.

14. Transport information

Classified as Dangerous Goods for Land/rail (ADR/RID), sea (IMDG/GGVSee) and air transport (ICAO/IATA):

Hazard Class: 9
Packaging Group: III
UN Number: 3082
Hazard Label: 9, EHSM
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(contains FIPRONIL 10%)
HAZCHEM: 2[Z]
Marine Pollutant: Yes

Public transport:
Do NOT carry this product on a passenger service vehicle.

15. Regulatory information

Regulations of the European Union (Labelling) / National legislation/Regulations

Directive 1999/45/EC ('Preparation Directive'):

Hazard symbol(s)

Xn Harmful.
N Dangerous for the environment.

R-phrases(s)

R20 Harmful by inhalation.
R36/38 Irritating to eyes and skin.
R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases(s)

S2 Keep out of the reach of children.
S13 Keep away from food, drink and animal feeding stuffs.
S20/21 When using do not eat, drink or smoke.
S35 This material and its container must be disposed of in a safe way.
S46 If swallowed, seek medical advice immediately and show this container or label.
S57 Use appropriate container to avoid environmental contamination.

Hazard determining component(s) for labelling: FIPRONIL

The product contains: 1,2-BENZISOTHIAZOL-3(2H)-ONE
May produce an allergic reaction.

Other regulations

For the user of this product: 'To avoid risks to man and the environment, comply with the instructions for use.' (Directive 1999/45/EC, Article 10, No. 1.2)

NZ Regulations

Approved pursuant to the HSNO Act 1996, Code HSR100550.
See www.ermanz.govt.nz for approval controls.

16. Other information

Full text of hazard symbols and R-phrases if mentioned as hazardous components in chapter 2:

T	Toxic.
N	Dangerous for the environment.
Xi	Irritant.
23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
48/25	Toxic: danger of serious damage to health by prolonged exposure if swallowed.
50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
36/38	Irritating to eyes and skin.

| Vertical lines in the left hand margin indicate an amendment from the previous version.

DISCLAIMER: The information provided in this safety data sheet is based on our current knowledge and experience and describes the product only in regard to safety requirements. The data does not describe the properties of the product (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product for determining the suitability of this information for their particular purposes, and to ensure any proprietary rights and existing laws and regulations are observed.