1. Identification

Product identifier used on the label

TERMIDOR NY

Recommended use of the chemical and restriction on use

Recommended use*: insecticide

* The “Recommended use” identified for this product is provided solely to comply with a Federal requirement and is not part of the seller’s published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller’s sales agreement.

Details of the supplier of the safety data sheet

Company:
BASF CORPORATION
100 Park Avenue
Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

Emergency telephone number

CHEMTREC: 1-800-424-9300
BASF HOTLINE: 1-800-832-HELP (4357)

Other means of identification

Substance number: 256709
EPA Registration number: 7969-210
Molecular formula: C_{12} H_{4} C_{12} F_{6} N_{4} O S
Chemical family: phenyl pyrazole
Synonyms: fipronil

2. Hazards Identification


Classification of the product

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Tox.</td>
<td>4 (oral)</td>
<td>Acute toxicity</td>
</tr>
<tr>
<td>STOT RE</td>
<td>1</td>
<td>Specific target organ toxicity — repeated exposure</td>
</tr>
<tr>
<td>Aquatic Acute</td>
<td>2</td>
<td>Hazardous to the aquatic environment - acute</td>
</tr>
<tr>
<td>Aquatic Chronic</td>
<td>2</td>
<td>Hazardous to the aquatic environment - chronic</td>
</tr>
</tbody>
</table>
Safety Data Sheet
TERMIDOR NY
Revision date: 2015/12/15  Page: 2/13
Version: 6.0  (30369882/SDS_CPA_US/EN)

Label elements

Pictogram:

Signal Word:
Warning

Hazard Statement:
H302  Harmful if swallowed.
H372  Causes damage to organs through prolonged or repeated exposure.
H401  Toxic to aquatic life.
H411  Toxic to aquatic life with long lasting effects.

Precautionary Statements (Prevention):
P273  Avoid release to the environment.
P260  Do not breathe dust/gas/mist/vapours.
P270  Do not eat, drink or smoke when using this product.
P264  Wash with plenty of water and soap thoroughly after handling.

Precautionary Statements (Response):
P314  Get medical advice/attention if you feel unwell.
P301 + P312  IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P330  Rinse mouth.
P391  Collect spillage.

Precautionary Statements (Disposal):
P501  Dispose of contents/container to hazardous or special waste collection point.

Hazards not otherwise classified

Labeling of special preparations (GHS):
The following percentage of the mixture consists of component(s) with unknown hazards regarding the acute toxicity:
3 % dermal
The following percentage of the mixture consists of component(s) with unknown hazards regarding the acute toxicity:
5 % Inhalation - vapour
The following percentage of the mixture consists of component(s) with unknown hazards regarding the acute toxicity:
5 % Inhalation - mist


Emergency overview

CAUTION:
HARMFUL IF SWALLOWED.
HARMFUL IF ABSORBED THROUGH SKIN.
HARMFUL IF INHALED.
Causes eye irritation.
Do not get in eyes, on skin, or on clothing.
Do not breathe vapours/mists.
Wash thoroughly after handling.
3. Composition / Information on Ingredients


<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Weight %</th>
<th>Chemical name</th>
</tr>
</thead>
<tbody>
<tr>
<td>120068-37-3</td>
<td>9.1 %</td>
<td>fipronil</td>
</tr>
<tr>
<td>137-20-2</td>
<td>0.3 - 1.0%</td>
<td>Ethanesulfonic acid, 2-[methyl(1-oxo-9-octadecenyl)amino]-, sodium salt, (Z)-</td>
</tr>
<tr>
<td>2634-33-5</td>
<td>&lt; 0.1 %</td>
<td>1,2-benzisothiazol-3(2H)-one</td>
</tr>
</tbody>
</table>


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<thead>
<tr>
<th>CAS Number</th>
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<td>9.1 %</td>
<td>fipronil</td>
</tr>
<tr>
<td>57-55-6</td>
<td>3.0 %</td>
<td>Propylene glycol</td>
</tr>
<tr>
<td></td>
<td>87.9 %</td>
<td>Proprietary ingredients</td>
</tr>
</tbody>
</table>

4. First-Aid Measures

Description of first aid measures

General advice:
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). Immediately remove contaminated clothing.

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

If on skin:
Immediately wash thoroughly with soap and water, seek medical attention.

If in eyes:
Wash affected eyes for at least 15 minutes under running water with eyelids held open.

If swallowed:
Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11. Further important symptoms and effects are so far not known. CNS stimulation, tremors, convulsions
Hazards: All injection injuries must be treated as potential threats to the future viability of the hand, foot, or limb. Injection wounds containing dirt, leather, product or other infectious detritus should be considered dangerous to the viability of the hand, foot or limb. Surgical exploration and debridement may be required.

Indication of any immediate medical attention and special treatment needed

Note to physician
Antidote: No known specific antidote.
Treatment: Treat symptomatically. Anticonvulsant therapy as routinely administered
to humans. Based on animal studies diazepam and phenobarbital prevented convulsions. Due to the slow elimination of the active compound and its metabolites, the treatment must be continued for several days, gradually decreasing the dose of anticonvulsant based on the clinical response.

5. Fire-Fighting Measures

Extinguishing media
Suitable extinguishing media:
foam, dry powder, carbon dioxide, water spray

Special hazards arising from the substance or mixture
Hazardous during fire-fighting:
carbon monoxide, carbon dioxide, hydrogen fluoride, Hydrogen chloride, nitrogen oxides, sulfur oxides, acid halides
If product is heated above decomposition temperature, toxic vapours will be released. The substances/groups of substances mentioned can be released if the product is involved in a fire.

Advice for fire-fighters
Protective equipment for fire-fighting:
Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Further information:
Evacuate area of all unnecessary personnel. Contain contaminated water/firefighting water. Do not allow to enter drains or waterways.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
Take appropriate protective measures. Clear area. Shut off source of leak only under safe conditions. Extinguish sources of ignition nearby and downwind. Ensure adequate ventilation. Wear suitable personal protective clothing and equipment.

Environmental precautions
Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater. Contain contaminated water/firefighting water.

Methods and material for containment and cleaning up
Dike spillage. Pick up with suitable absorbent material. Place into suitable containers for reuse or disposal in a licensed facility. Spilled substance/product should be recovered and applied according to label rates whenever possible. If application of spilled substance/product is not possible, then spills should be contained, solidified, and placed in suitable containers for disposal. After decontamination, spill area can be washed with water. Collect wash water for approved disposal.

7. Handling and Storage

Precautions for safe handling
RECOMMENDATIONS ARE FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS. PESTICIDE APPLICATORS & WORKERS must refer to the Product Label and Directions for Use attached to the product for Agricultural Use Requirements in
accordance with the EPA Worker Protection Standard 40 CFR part 170. Ensure adequate
ventilation. Provide good ventilation of working area (local exhaust ventilation if necessary). Keep
away from sources of ignition - No smoking. Keep container tightly sealed. Protect contents from the
effects of light. Protect against heat. Protect from air. Handle and open container with care. Do not
open until ready to use. Once container is opened, content should be used as soon as possible.
Avoid aerosol formation. Avoid dust formation. Provide means for controlling leaks and spills. Do not
return residues to the storage containers. Follow label warnings even after container is emptied. The
substance/product may be handled only by appropriately trained personnel. Avoid all direct contact
with the substance/product. Avoid contact with the skin, eyes and clothing. Avoid inhalation of
dusts/mists/vapours. Wear suitable personal protective clothing and equipment.

Protection against fire and explosion:
The relevant fire protection measures should be noted. Fire extinguishers should be kept handy.
Avoid all sources of ignition: heat, sparks, open flame. Sources of ignition should be kept well clear.
Avoid extreme heat. Keep away from oxidizable substances. Electrical equipment should conform to
national electric code. Ground all transfer equipment properly to prevent electrostatic discharge.
Electrostatic discharge may cause ignition.

Conditions for safe storage, including any incompatibilities
Segregate from incompatible substances. Segregate from foods and animal feeds. Segregate from
textiles and similar materials.

Further information on storage conditions: Keep only in the original container in a cool, dry, well-
ventilated place away from ignition sources, heat or flame. Protect containers from physical damage.
Protect against contamination. The authority permits and storage regulations must be observed.
Keep away from heat. Protect from direct sunlight.

8. Exposure Controls/Personal Protection

Users of a pesticidal product should refer to the product label for personal protective
equipment requirements.

No occupational exposure limits known.

Advice on system design:
Whenever possible, engineering controls should be used to minimize the need for personal
protective equipment.

Personal protective equipment

RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING
WORKERS:

Respiratory protection:
Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent)
organic vapour/particulate respirator. For situations where the airborne concentrations may exceed
the level for which an air purifying respirator is effective, or where the levels are unknown or
Immediately Dangerous to Life or Health (IDLH), use NIOSH-certified full facepiece pressure
demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied-air
respirator (SAR) with escape provisions.

Hand protection:
Chemical resistant protective gloves, Protective glove selection must be based on the user’s
assessment of the workplace hazards.
Eye protection:
Safety glasses with side-shields. Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists.

Body protection:
Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

General safety and hygiene measures:
Wear long sleeved work shirt and long work pants in addition to other stated personal protective equipment. Work place should be equipped with a shower and an eye wash. Handle in accordance with good industrial hygiene and safety practice. Personal protective equipment should be decontaminated prior to reuse. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks). Take off immediately all contaminated clothing. Store work clothing separately. Hands and/or face should be washed before breaks and at the end of the shift. No eating, drinking, smoking or tobacco use at the place of work. Keep away from food, drink and animal feeding stuffs.

9. Physical and Chemical Properties

Form: suspension
Odour: characteristic
Odour threshold: Not determined due to potential health hazard by inhalation.
Colour: off-white
pH value: approx. 6.5 - 8.5
(21 °C)
Melting point: < 0 °C
Information applies to the solvent.
Boiling point: approx. 100 °C
Information applies to the solvent.
Flash point: > 206.96 °F
Flammability: not applicable
Lower explosion limit: As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.
Upper explosion limit: As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.
Autoignition: Information applies to the solvent. not applicable
Vapour pressure: approx. 23.3 hPa
(20 °C)
Information applies to the solvent.
Density: approx. 1.06 g/cm³
(20 °C)
Vapour density: not applicable
Partitioning coefficient n-octanol/water (log Pow): not applicable
10. Stability and Reactivity

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

Chemical stability
The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions
The product is chemically stable. Hazardous polymerization will not occur. No hazardous reactions if stored and handled as prescribed/indicated.

Conditions to avoid

Incompatible materials
strong oxidizing agents

Hazardous decomposition products

Decomposition products:
Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated. Prolonged thermal loading can result in products of degradation being given off.

Thermal decomposition:
Possible thermal decomposition products:
carbon monoxide, carbon dioxide, nitrogen oxide, Hydrogen chloride, hydrogen fluoride, Sulphur dioxide
Stable at ambient temperature. If product is heated above decomposition temperature toxic vapours may be released. If product is heated above decomposition temperature hazardous fumes may be released.

11. Toxicological information

Primary routes of exposure
Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

**Acute Toxicity/Effects**

**Acute toxicity**
Assessment of acute toxicity: Slightly toxic after single ingestion. Slightly toxic after short-term skin contact. Slightly toxic after short-term inhalation.

**Oral**
Type of value: LD50
Species: rat
Value: 1,999 mg/kg

**Inhalation**
Type of value: LC50
Species: rat
Value: > 1.7 mg/l
Exposure time: 4 h
Highest concentration available for testing. No mortality was observed.

Type of value: LC50
Species: rat
Value: 6.8 mg/l (calculated)
Exposure time: 1 h

**Dermal**
Type of value: LD50
Species: rat
Value: > 2,000 mg/kg
No mortality was observed.

**Assessment other acute effects**
Assessment of STOT single:
Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

The product has not been tested. The statement has been derived from the properties of the individual components.

**Irritation / corrosion**
Assessment of irritating effects: May cause slight irritation to the skin. May cause moderate but temporary irritation to the eyes.

**Skin**
Species: rabbit
Result: Slightly irritating.

**Eye**
Species: rabbit
Result: Slightly irritating.

**Sensitization**
Assessment of sensitization: Skin sensitizing effects were not observed in animal studies.

modified Buehler test
Species: guinea pig
Result: Non-sensitizing.

**Chronic Toxicity/Effects**

**Repeated dose toxicity**
Assessment of repeated dose toxicity: The product has not been tested. The statement has been derived from the properties of the individual components.

*Information on: Fipronil*
Assessment of repeated dose toxicity: Causes mortality and signs of neurotoxicity through prolonged or repeated exposure.

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**Genetic toxicity**
Assessment of mutagenicity: The product has not been tested. The statement has been derived from the properties of the individual components. Mutagenicity tests revealed no genotoxic potential.

**Carcinogenicity**
Assessment of carcinogenicity: The product has not been tested. The statement has been derived from the properties of the individual components.

*Information on: fipronil*
Assessment of carcinogenicity: In long-term studies in rats the substance induced thyroid tumors. In long-term studies in rodents exposed to high doses, a tumorigenic effect was found; however, these results are thought to be due to a rodent-specific liver effect that is not relevant to humans.

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**Reproductive toxicity**
Assessment of reproduction toxicity: The product has not been tested. The statement has been derived from the properties of the individual components. The results of animal studies gave no indication of a fertility impairing effect.

**Teratogenicity**
Assessment of teratogenicity: The product has not been tested. The statement has been derived from the properties of the individual components. Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

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**Other Information**
Misuse can be harmful to health.

**Symptoms of Exposure**
The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known.
CNS stimulation, tremors, convulsions

**Medical conditions aggravated by overexposure**
Individuals with pre-existing diseases of the respiratory system, skin or eyes may have increased susceptibility to excessive exposures.

12. **Ecological Information**

**Toxicity**
Aquatic toxicity
Assessment of aquatic toxicity:
Very toxic (acute effect) to aquatic organisms.

Toxicity to fish

*Information on: Fipronil*
LC50 (96 h) 0.0852 mg/l, *Lepomis macrochirus*

Aquatic invertebrates

*Information on: Fipronil*
EC50 (48 h) 0.19 mg/l, *Daphnia magna*
EC50 (96 h) 0.00014 mg/l, *Mysidopsis bahia*

Aquatic plants

*Information on: Fipronil*
EC50 (96 h) 0.068 mg/l, *Scenedesmus subspicatus*
No observed effect concentration 0.040 mg/l, *Scenedesmus subspicatus*

Chronic toxicity to fish

*Information on: Fipronil*
No observed effect concentration (35 d) 0.0029 mg/l, *Cyprinodon variegatus*

Chronic toxicity to aquatic invertebrates

*Information on: Fipronil*
No observed effect concentration (28 d) 0.000008 mg/l, *Mysidopsis bahia*

Assessment of terrestrial toxicity
With high probability not acutely harmful to terrestrial organisms.

Other terrestrial non-mammals

*Information on: fipronil*
LD50 (48 d) 0.00593 ug/bee (contact), *Apis mellifera*
LD50 (48 d) 0.00417 ug/bee (oral), *Apis mellifera*

**Persistence and degradability**

Assessment biodegradation and elimination (H2O)

*Information on: Fipronil*

Not readily biodegradable (by OECD criteria).

Bioaccumulative potential
Assessment bioaccumulation potential
The product has not been tested. The statement has been derived from the properties of the individual components.

Mobility in soil

Assessment transport between environmental compartments
The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Fipronil

Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.

Additional information

Other ecotoxicological advice:
The ecological data given are those of the active ingredient. Do not release untreated into natural waters.

13. Disposal considerations

Waste disposal of substance:
Pesticide wastes are regulated. Improper disposal of excess pesticide, spray mix or rinsate is a violation of federal law. If pesticide wastes cannot be disposed of according to label instructions, contact the State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container disposal:
Rinse thoroughly at least three times (triple rinse) in accordance with EPA recommendations. Consult state or local disposal authorities for approved alternative procedures such as container recycling. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

RCRA:
This product is not regulated by RCRA.

14. Transport Information

Land transport
USDOT
Not classified as a dangerous good under transport regulations

Sea transport
IMDG
Hazard class: 9
Packing group: III
ID number: UN 3082
Hazard label: 9, EHS, YES
Marine pollutant: YES
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains FIPRONIL)
Air transport
IATA/ICAO
Hazard class: 9
Packing group: III
ID number: UN 3082
Hazard label: 9, EHSM
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains FIPRONIL)

15. Regulatory Information

Federal Regulations

Registration status:
Crop Protection TSCA, US released / exempt
Chemical TSCA, US blocked / not listed

EPCRA 311/312 (Hazard categories): Acute; Chronic

NFPA Hazard codes:
Health: 2 Fire: 1 Reactivity: 1 Special:

Labeling requirements under FIFRA

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label.

CAUTION: HARMFUL IF SWALLOWED. HARMFUL IF ABSORBED THROUGH SKIN. HARMFUL IF INHALED. Causes eye irritation. Do not get in eyes, on skin, or on clothing. Do not breathe vapours/mists. Wash thoroughly after handling.

16. Other Information

SDS Prepared by:
BASF NA Product Regulations
SDS Prepared on: 2015/12/15

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our
operations on society and the environment during production, storage, transport, use and disposal of our products.

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