



Product Name: TERMIDOR® SC TERMITICIDE/INSECTICIDE
 Product Code: 264598
 MSDS Number : 99232
 Version Date: August 9 2000

Material Safety Data Sheet

Pfint dale - September 12th, 2000 10:42 a.m. (E) PS PSA PSFHV - 1.1 (1/14)

1. CHEMICAL PRODUCT and COMPANY IDENTIFICATION

Product Name: TERMIDOR® SC TERMITICIDE/INSECTICIDE
 Product Code: 264598
 MSDS Number : 99232
 Chemical Name: FIPRONIL:
 5-amino-1-(2,6-dichloro-4-(trifluoromethyl)phenyl)-4-((1R,S)-(trifluoromethyl)sulfinyl)-1H-pyrazole-3-carbonitrile
 Chemical Formula: C12H4C12F6N4OS
 EPA Registry Number: 432-901

AVENTIS ENVIRONMENTAL SCIENCE USA LP
 95 CHESTNUT RIDGE ROAD MONTVALE, NJ
 07645 UNITED STATES

2. COMPOSITION/ INFORMATION on INGREDIENTS -

COMPONENT	CAS REG NUMBER	
Fipronil	120068-37-3	9.1%
Inert ingredients		90.9%

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

Physical Appearance and odor: A light brown viscous liquid, odorless.

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- CAUSES EYE IRRITATION.
- THIS PRODUCT IS TOXIC TO BIRDS, FISH, AND AQUATIC INVERTEBRATES.

For Product Use

Information:

Medic./Trans.

Emergency:

(DART)

(CHEMTREC)

(300)331-2867

24 Hours/Day

(800)334-7577

24 Hours/Day

(800)424-9300

24 Hours/Day

3. HAZARDS IDENTIFICATION (Continued)

POTENTIAL HEALTH EFFECTS

IMMEDIATE EFFECTS

SKIN:

Harmful if absorbed through the skin. Do not get on skin or clothing. May produce symptoms similar to those from ingestion. May cause irritation, redness, swelling.

EYES:

Causes eye irritation. May cause redness, tearing. Do not get in eyes .

INHALATION:

Harmful if inhaled. Do not breathe spray mist. May produce symptoms similar to those from ingestion. May cause shortness of breath, excitement, involuntary shaking, irritability.

INGESTION:

Harmful if ingested. May cause shortness of breath, drowsiness, involuntary shaking, muscle weakness, convulsions .

DELAYED/LONG TERM EFFECTS

CARCINOGENIC :

This product does not contain any substances that are considered by OSHA, NTP, IARC, or ACGIH to be probable or suspected human carcinogens (see Section 11 - Toxicological Information)

.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema, or bronchitis.

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-----**4. FIRST AID**-----
MEASURES-----

After contact with skin:

Take off contaminated clothing.
Rinse skin immediately with
plenty of water for 15-20
minutes. Call a poison control
center or doctor for treatment
advice.

After contact with **eyes**:

Flush eye with
plenty of water.
Call a physician if
irritation persists.

After inhalation:

Move person to fresh air. If
person is not breathing, call 911
or ambulance, then give artificial
respiration, preferably mouth to
mouth, if possible. Call a
poison control center or doctor
for further treatment advice.

After ingestion:

Call a poison control center
or doctor immediately for
treatment advice. Have a
person sip a glass of water if
able to swallow. Do not induce
vomiting unless told to by a
poison control center or doctor.

Hints for the physician:

There is no specific antidote.
All treatment should be based
on observed signs and
symptoms of distress in the
patient. Overexposure to
materials other than this product
may have occurred.

In severe cases of overexposure
by oral ingestion, lethargy,
muscle tremors, and in extreme
cases, possibly convulsions, may
occur.

TREATMENT FOR FIPRONIL OVERDOSE:

Recommendations for treatment
are based on anticonvulsant
therapy as routinely
administered to humans.
Phenobarbital or diazepam may
be useful in controlling
convulsions induced by Fipronil.

treatment, the treatment must be continued for several days, gradually decreasing the dose of anticonvulsant based on the patients clinical response. This is necessary due to the slow elimination of the compound.

**- 5. FIRE FIGHTING
MEASURES**

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UNUSUAL FIRE AND EXPLOSION HAZARDS:
Closed containers may explode (due to the build-up of pressure) when exposed to extreme heat.

HAZARDOUS DECOMPOSITION MATERIALS (UNDER FIRE CONDITIONS):
Hydrogen Flouride
Oxides of Nitrogen
Oxides of Sulfur
Oxides of Carbon
Hydrochloric Acid

Advice on protection against fire and explosion:

Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing. Keep unnecessary people away, isolate hazard area and deny entry. Evacuate residents who are downwind of fire. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later. Persons who may have been exposed to contaminated smoke should be immediately examined by a physician and checked for symptoms of poisoning. The symptoms should not be mistaken for heat exhaustion or smoke inhalation.

Suitable extinguishing media:

Foam, Water Spray, Carbon Dioxide, Dry Chemical

•— **6. ACCIDENTAL RELEASE MEASURES** -----

Precautions:

CLEANUP OF SPILL:

if it can be done so without risk. Follow steps described below under Cleanup and Disposal of

'up/taking up:

PERSONAL PROCEDURES AND SAFETY:

appropriate protective gear for the situation. See Personal Protection Information in Section 8.

DISPOSAL OF SPILL:

Free liquid into an appropriate closed container (see Section 7: Handling and Storage). Recover as much product as possible. Absorb with an inert absorbent. Treat site with a 2-5% caustic soda (sodium hydroxide)

If spilled on the ground, the affected area should be cleaned and placed in an appropriate container for (see Section 7: Handling and Storage). Clean tools and equipment following cleanup. Spills reportable to the National Response Center (800-880-8802) and to state and/or local agencies, as required for disposal. Ventilate area.

Caustic soda (sodium hydroxide) in contact with metals will produce hydrogen gas, which is flammable in an enclosed space. An alternative is 1 part bleach to 9 parts water and left in contact with spill for ten minutes prior to mopping or shoveling residue.

7. HANDLING and STORAGE

Do not breathe vapors or spray mists.
Do not get on skin, in eyes or on clothing.
Do not ingest.

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----- **7. HANDLING and STORAGE**
(Continued) -----

Storage:

- Do not contaminate water, food, or feed by storage or disposal.
- Store unused product in original container only, out of reach of children and animals.
- Keep out of direct sunlight.
- Store in an area that is cool, away from ignition sources, away from food, feedstuffs, fertilizers, seed, and water sources.
- Store in closed containers.
- Minimum/Maximum Storage Temperatures not available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

INTRODUCTORY REMARKS

These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. While developing safe handling procedures, do not overlook the need to clean equipment and piping systems for maintenance and repairs. Waste resulting from these procedures should be handled in accordance with Section 13: Disposal Considerations.

Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers.

Additional advice on system design:

ENGINEERING CONTROLS

Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee exposures: local exhaust ventilation at the point of generation.

Hygiene measures:

WORK PRACTICE CONTROLS:

Personal hygiene is an important work

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s should be taken when working with or handling this material:

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Hygiene measures: (Continued)

- (1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
- (2) Wash hands and face thoroughly with soap and water before eating, drinking, chewing gum, using tobacco, applying cosmetics, or using the toilet,
- (3) Wash exposed skin promptly to remove accidental splashes of contact with this material.
- (4) Remove contaminated clothing. Then wash body thoroughly with soap and water and put on clean clothing. Wash clothing with detergent and hot water before reusing. Contaminated clothing should not be taken home or laundered with other clothing.
- (5) Remove PPE immediately after handling this product. Wash outside of gloves before removing. Wash PPE before reusing.

Personal protective equipment

Body protection:

All pesticide handlers (mixers, loaders, and applicators) must wear long-sleeved shirt and long pants, socks, shoes, and chemical-resistant gloves.

Eye protection:

All pesticide handlers must wear protective eyewear (goggles, a faceshield, or safety glasses with front, brow, and temple protection) when working in a non-ventilated space, including but not limited to crawl-spaces and basements or when applying termiticide by rodding or sub-slab injection.

Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material.

Respiratory protection:

All pesticide handlers must wear a dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C) or a NIOSH approved respirator with any N, R, P, or HE filter when working in a non-ventilated space,

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conditions immediately dangerous to life or health, or emergency conditions with unknown concentrations, use a full-face positive pressure air-supplied respirator equipped

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Respiratory protection: (Continued)

with an emergency
escape air supply
unit or use a
self-contained
breathing
apparatus unit.

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EXPOSURE GUIDELINES:

Exposure limits represent
regulated or recommended
worker breathing zone
concentrations measured
by validating sampling
and analytical methods,
meeting the regulatory
requirements. The
following limits apply to
this material, where, if
indicated, S=skin and
C=ceiling limit:

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FIPRONIL:

	Notes :	TWA	STEL
Aventis Int.	S	0.03 mg/cu m	
Aventis Int.	S	0.1 mg/cu m (<3 m/y)	

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PROPANEDIOL:

	Notes:	TWA	STEL
AIHA		10 mg/cu m	
AIHA		50 ppm	

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**9. PHYSICAL and CHEMICAL
PROPERTIES —**

Physical and Chemical
properties here
represent typical
properties of this
product.

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APPEARANCE:

A light brown viscous liquid.

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-10. STABILITY and REACTIVITY

CHEMICAL STABILITY:

This material is stable under normal handling and storage conditions described in Section 7.

CONDITIONS TO AVOID:

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HAZARDOUS DECOMPOSITION PRODUCTS:

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INCOMPATIBILITY:

MATERIALS/CHEMICALS TO BE AVOIDED:
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Strong acids

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**11.
TOXICOLOG
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ACUTE EYE
IRRITATION:
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Eye - eye
irritation, rabbit .
Mildly irritating

ACUTE SKIN
IRRITATION:
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INFORMATION
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ON
Skin - skin
irritation, rabbit
Slightly irritating
Skin -
sensitization,
guinea pig
Not sensitizing

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-----**11 TOXICOLOGICAL**
INFORMATION (Continued)-----

ACUTE DERMAL TOXICITY:
TOXICOLOGICAL INFORMATION AND INTERPRETATION
LD50 - lethal dose 50% of test species, > 2,000 mg/kg,
rabbit

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ACUTE
INHALATION
TOXICITY:
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INTERPRETATION

LC50 - lethal
concentration 50%
of test species, >
1.7
mg/1/4 hr, rat

ACUTE ORAL
TOXICITY:
TOXICOLOGICAL
INFORMATION
AND
INTERPRETATION

LD50 - lethal dose
50% of test
species, > 1,999
mg/kg, rat

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substances that are considered by OSHA, NTP, IARC, or ACGIH to be probable or suspected human carcinogens.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL PRECAUTIONS :

This pesticide is toxic to birds, fish, and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas . Care must be taken to avoid runoff. Do not contaminate water by cleaning equipment or disposal' of wastes. Do not contaminate water when disposing of equipment washwaters .

ECOTOXICOLOGICAL INFORMATION:

The following data is for similar or related products .

ECOTOXICOLOGICAL INFORMATION AND INTERPRETATION:

LC50 - lethal concentration 50% of test species, > 5,000 mg/kg/8 days, Mallard duck (*Anas platyrhynchos*) .

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----- **12. ECOLOGICAL INFORMATION**
(Continued) -

Y concentrations. Mean concentration.

lethal concentration 50% of test species, 48 mg/kg/8 Dobwhite quail (Colinus virginianus). / concentrations. Mean concentration.

effective concentration 50% of test species, 190 3 hr, Daphnia magna. sncentration. Flow through.

lethal concentration 50% of test species, 85 ug/1/96 legill sunfish (Lepomis macrochirus). >ncentration. Flow through.

lethal concentration 50% of test species, 248 ug/1/96 .nbow trout (Oncorhynchus mykiss). mcentration. Flow through.

Ji FATE INFORMATION:
imical fate data call the product use information
lumber listed on the bottom of each page.

**13. DISPOSAL
CONSIDERATIONS**

•ISPOSAL METHOD:

de wastes are acutely hazardous. Improper disposal sa pesticide is a violation of Federal Law. If these cannot be disposed of by use according to label tions, contact your State Pesticide or Environmental Agency, or the Hazardous Waste representative at the EPA Regional Office for guidance.

l additions, processing or otherwise altering this l may make the waste management information presented MSDS incomplete, inaccurate or otherwise priate. Please be advised that state and local •ments for waste disposal may be more restrictive or se different from federal laws and regulations.
state and local regulations regarding the proper L of this material.

3R HANDLING AND DISPOSAL:

13. DISPOSAL CONSIDERATIONS (Continued)-----

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state or local authorities, by burning. If burned, stay out of smoke. Consult state and local regulations regarding the proper disposal of container.

EPA HAZARDOUS WASTE: No

14. TRANSPORT INFORMATION

Proper Shipping Name: Not regulated for transportation.

----- 15, REGULATORY INFORMATION

STATE REGULATIONS

STATE REGULATIONS:

This product does not contain any components that are regulated under California Proposition 65.

The following chemicals associated with the product are subject to the right-to-know regulations in these states No components regulated

U.S. FEDERAL REGULATIONS

SARA Title III Hazard Classes:

Fire Hazard	Yes
Reactivity Hazard	No
Release of Pressure	No
Acute Health Hazard	Yes
Chronic Health Hazard	Yes

TSCA inventory status These components are not listed: FIPRONIL 9.1% (120068-37-3)

SARA 313 No components listed

15. REGULATORY INFORMATION (Continued) -

INTERNATIONAL REGULATIONS

INVENTORY STATUS: N
 Canada (DSL) N
 Europe (EINECS/ELINCS) N
 Australia (AICS) N
 Japan (MITI) N
 South Korea (KECL) N
 N

Y = All ingredients are on the inventory.
 E = All ingredients are on the inventory or exempts from listing.
 P = One or more ingredients fall under the polymer exemption or are on the no longer polymer list. All other ingredients are on the inventory or exempt from listing.
 N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing.

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16. OTHER INFORMATION

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NATIONAL FIRE PROTECTION ASSOCIATION HAZARD RATINGS(NFPA) : 2 Health Hazard
 Rating -- Moderate
 1 Flammability Rating -- Slight
 0 Instability Rating -- Minimal

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NATIONAL PAINT & COATING HAZARDOUS MATERIALS IDENTIFICATION:

2 Health Hazard Rating -- Moderate
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KEY LEGEND INFORMATION:

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

TLV - Threshold Limit Value

PEL - Permissible Exposure Limit

TWA - Time Weighted Average

STEL - Short Term Exposure Limit

NTP - National Toxicology Program

IARC - International Agency for Research on Cancer

ND - Not Determined

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16. OTHER INFORMATION (Continued)

REVISED SECTIONS:

MSDS REVISED INDICATOR: Change made to Section 11: Toxicological Information.

PREPARED BY: Dept. of Regulatory Affairs.
PHONE: 800-438-5837
SUPERSEDES: 04/26/2000

DISCLAIMER:

The information is provided in good faith but without express or implied warranty. Buyer assumes all responsibility for safety and use not in accordance with label instructions.