

# MATERIAL SAFETY DATA SHEET

## TRANSPORT® TERMITICIDE INSECTICIDE



MSDS Ref. No.: F18-56-0  
Date Approved: 06/04/2010  
Revision No.: 3

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This document has been prepared to meet the requirements of the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200. The information contained herein is for the concentrate as packaged, unless otherwise noted.

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## 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** TRANSPORT® TERMITICIDE INSECTICIDE  
**PRODUCT CODE:** 6348  
**ACTIVE INGREDIENT(S):** Bifenthrin\*; Acetamiprid\*\*  
**CHEMICAL FAMILY:** Pyrethroid\*; Neonicotinoid\*\*  
**MOLECULAR FORMULA:** C<sub>23</sub>H<sub>22</sub>ClF<sub>3</sub>O<sub>2</sub>\*; C<sub>10</sub>H<sub>11</sub>ClN<sub>4</sub>\*\*  
**SYNONYMS:** FMC 54800; (2-methyl[1,1'-biphenyl]-3-yl)methyl 3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylate; IUPAC: 2-methylbiphenyl-3-ylmethyl (Z)-(1RS)-cis-3-(2-chloro-3,3,3-trifluoroprop-1-enyl)-2,2-dimethylcyclopropanecarboxylate\*;  
CAS: (1E)-N-[(6-chloro-3-pyridinyl)methyl]-N<sup>1</sup>-cyano-N-methylacetamide; IUPAC:(E)-N<sup>1</sup>-[(6-chloro-3-pyridyl)methyl]-N<sup>2</sup>-cyano-N<sup>1</sup>-methyl\*\*

Information for Bifenthrin\*; Information for Acetamiprid\*\*

### MANUFACTURER

FMC CORPORATION  
Agricultural Products Group  
1735 Market Street  
Philadelphia, PA 19103  
(800) 321-1362 (General Information)  
msdsinfo@fmc.com (Email - General Information)

### EMERGENCY TELEPHONE NUMBERS

(800) 331-3148 (Medical - U.S.A. & Canada)  
(651) 632-6793 (Medical - Collect - All Other Countries)

For leak, fire, spill, or accident emergencies, call:  
(800) 424-9300 (CHEMTREC - U.S.A. & Canada)  
(703) 527-3887 (CHEMTREC - Collect - All Other Countries)

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## 2. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW:

- White powder with a faint, slightly sweet odor.
- Slightly combustible. May support combustion at elevated temperatures.
- Thermal decomposition and burning may form toxic by-products.
- For large exposures or fire, wear personal protective equipment.
- May be harmful if swallowed.
- Irritating to the eyes.
- Prolonged, repeated exposure to respirable crystalline silica can cause silicosis or possibly cancer. See section 11 for additional details.
- Highly toxic to fish and aquatic organisms. Keep out of drains and water courses.

**POTENTIAL HEALTH EFFECTS:** Effects from overexposure may result from either swallowing or coming into contact with the skin or eyes. Signs of exposure include ataxia, tachypnea, tremors, chromorhinorrhea, lethargy, sagging eyelids, shallow breathing and abdominal bloating. Contact with bifenthrin may occasionally produce skin sensations such as rashes, numbing, burning or tingling. These skin sensations are reversible and usually subside within 12 hours.

**MEDICAL CONDITIONS AGGRAVATED:** None presently known.

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## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Wt.%	EC No.	EC Class
Bifenthrin	82657-04-3	27.27	None	T, Xn, Xi, N; R25-20-43-50/53
Acetamiprid	135410-20-7	22.73	None	Not classified
Synthetic amorphous silica	112926-00-8	<33	231-545-4	Not classified
Surfactant Blend		<7.4	None	Not classified
Silica, quartz	14808-60-7	<0.8	238-878-4	Not classified in Annex I

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## 4. FIRST AID MEASURES

**EYES:** Flush with plenty of water. Get medical attention if irritation occurs and persists.

**SKIN:** Wash with plenty of soap and water. Get medical attention if irritation occurs and persists.

**INGESTION:** Drink plenty of water. Never give anything by mouth to an unconscious person. If any discomfort persists, obtain medical attention.

**INHALATION:** Remove to fresh air. If breathing difficulty or discomfort occurs and persists, contact a medical doctor.

**NOTES TO MEDICAL DOCTOR:** This product has low oral, dermal and inhalation toxicity. It is irritating to the eyes and non-irritating to the skin. Reversible skin sensations (paresthesia) may occur and ordinary skin salves have been found useful in reducing discomfort. Treatment is otherwise controlled removal of exposure followed by symptomatic and supportive care.

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## 5. FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Foam, CO<sub>2</sub> or dry chemical. Soft stream water fog only if necessary. Contain all runoff.

**FIRE / EXPLOSION HAZARDS:** Slightly combustible. This material may support combustion at elevated temperatures.

**FIRE FIGHTING PROCEDURES:** Isolate fire area. Evacuate downwind. Wear full protective clothing and self-contained breathing apparatus. Do not breathe smoke, gases or vapors generated.

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## 6. ACCIDENTAL RELEASE MEASURES

**RELEASE NOTES:** Isolate and post spill area. Wear protective clothing and personal protective equipment as prescribed in Section 8, "Exposure Controls/Personal Protection". Keep unprotected persons and animals out of the area.

Keep material out of streams and sewers. Large spills should be covered to prevent dispersal. For dry material, use a wet sweeping compound or water to prevent the formation of dust. If water is used, prevent runoff or dispersion of excess liquid by diking and absorbing with a non-combustible absorbent such as clay, sand or soil. Vacuum, shovel or pump waste into a drum and label contents for disposal.

To clean and neutralize contaminated area, scrub area with a solution of detergent (e.g. commercial product such as SuperSoap™, Tide®, Spic and Span®, or other high pH detergent) and water. Let solution sit for 5 minutes. Use a stiff brush to scrub affected area. Repeat if necessary to remove visible staining. Additional decontamination can be made by applying bleach (Clorox® or equivalent) to affected area.

Absorb wash-liquid as noted above, remove visibly contaminated soil and place into recovery / disposal container (plastic, open-top steel drum or equivalent). Place all clean-up material in a container, seal and dispose of in accordance with the method outlined in Section 13 "Disposal Considerations" below.

For further information on spill clean-up, waste disposal, or return of salvaged product, call the FMC Emergency Hotline number listed in Section 1 "Product and Company Identification" above.

## 7. HANDLING AND STORAGE

**HANDLING AND STORAGE:** Store in a cool, dry, well-ventilated place. Do not use or store near heat, open flame or hot surfaces. Store in original containers only. Keep out of reach of children and animals. Do not remove packages from container except for immediate use. Do not store at temperatures below 0°C (32°F). Rough handling may cause breakage, especially at low temperatures. Allow to warm above 10°C (50°F) before use. Do not allow inner bags to become wet during storage. Do not handle inner bag with wet hands or wet gloves. Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### EXPOSURE LIMITS

Chemical Name	ACGIH	OSHA	Supplier
Synthetic amorphous silica		(TWA) (80/(% SiO <sub>2</sub> ) mg/m <sup>3</sup> )	
Silica, quartz	0.025 mg/m <sup>3</sup> (8-hour TWA) (respirable fraction)	(10/(% SiO <sub>2</sub> + 2) mg/m <sup>3</sup> (8-hour TWA, respirable dust)) (30/(% SiO <sub>2</sub> + 2) mg/m <sup>3</sup> (8-hour TWA, total dust))	

**ENGINEERING CONTROLS:** No open flames. Prevent deposition of dust; use closed system, consider use of dust explosion-proof electrical equipment and lighting. Use local exhaust at all process locations where dust may be emitted. Ventilate all transport vehicles prior to unloading.

### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** For dust exposure, wear chemical protective goggles or a face shield with safety glasses.

**RESPIRATORY:** APPLICATORS / END-USERS: None required for proper use and handling. ALL OTHERS: For dust exposures wear, as a minimum, a properly fitted half-face or full-face air-purifying respirator, which is approved for pesticides (U.S. NIOSH/MSHA, EU CEN or comparable certification organization). Respirator use and selection must be based on airborne concentrations.

**PROTECTIVE CLOTHING:** Depending upon concentrations encountered, wear coveralls or long-sleeved uniform and head covering. For larger exposures as in the case of spills, wear full body cover barrier suit, such as a rubber rain suit. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this products concentrate. Do not reuse them. Leather items -such as shoes, belts and watchbands - that become contaminated should also be removed and destroyed. Launder all work clothing before reuse (separately from household laundry).

**GLOVES:** Wear chemical resistant, waterproof gloves. Thoroughly wash the outside of gloves with soap and water prior to removal. Inspect regularly for leaks.

**WORK HYGIENIC PRACTICES:** Clean water should be available for washing in case of eye or skin contamination. Wash skin prior to eating, drinking, chewing gum, or using tobacco. Shower at the end of the workday.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>ODOR:</b>	Faint, slightly sweet
<b>APPEARANCE:</b>	White powder
<b>DENSITY / WEIGHT PER VOLUME:</b>	Loose: 0.1538 g/mL (9.6 lb/cu ft); Tapped: 0.2151 g/mL (13.43 lb/cu ft)
<b>FLASH POINT:</b>	Not applicable
<b>MOLECULAR WEIGHT:</b>	422.9 (bifenthrin) 222.7 (acetamiprid)
<b>pH:</b>	7.0 (± 0.5) (1% dispersion)

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## 10. STABILITY AND REACTIVITY

<b>CONDITIONS TO AVOID:</b>	Excessive heat and fire.
<b>STABILITY:</b>	Stable
<b>POLYMERIZATION:</b>	Will not occur
<b>INCOMPATIBLE MATERIALS:</b>	Strong bases, acids and oxidizing agents.
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	Carbon monoxide, carbon dioxide, hydrogen chloride and hydrogen fluoride.

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## 11. TOXICOLOGICAL INFORMATION

**EYE EFFECTS:** Irritating (rabbit)

**SKIN EFFECTS:** Non-irritating (rabbit)

**DERMAL LD<sub>50</sub>:** > 2,000 mg/kg (rabbit)

**ORAL LD<sub>50</sub>:** > 550 mg/kg (rat)

**INHALATION LC<sub>50</sub>:** > 0.51 mg/l (4 h) (rat) Maximum attainable concentration - zero mortality

**SENSITIZATION:** (Skin) Non-sensitizing (guinea pig)

**ACUTE EFFECTS FROM OVEREXPOSURE:** This product has low oral, dermal and inhalation toxicity. It is irritating to the eyes and non-irritating to the skin. It is non-sensitizing to the skin. No other acute toxicity information is available at this time.

**CHRONIC EFFECTS FROM OVEREXPOSURE:** No data available for the formulation. In studies with laboratory animals, bifenthrin did not cause reproductive toxicity or teratogenicity. Tremors were associated with repeated exposure of laboratory animals to bifenthrin. In lifetime feeding studies conducted with laboratory animals, a slight increase in the incidence of urinary bladder tumors at the highest dose in male mice was considered to be an equivocal response, not evidence of a clear compound-related effect. The overall absence of genotoxicity has been demonstrated in mutagenicity tests with bifenthrin.

In long term animal feeding studies with Acetamiprid, there was no evidence of carcinogenicity. In reproductive and developmental studies in animals, there was no effect on reproduction. Acetamiprid is not considered a carcinogen, mutagen or reproductive toxicant.

No adverse effects of pulmonary function or lung damage in workers were observed from long-term exposure to dusts of amorphous precipitated silica, silica gel containing no asbestos and <1% crystalline silica.

Repeated overexposure to crystalline silica for extended periods has caused acute silicosis. IARC has classified crystalline silica, inhaled in the form of quartz or cristobalite from occupational sources, as carcinogenic to humans (Group 1). NTP has classified respirable crystalline silica (quartz, cristobalite and tridymite) as "known to be a human carcinogen". The American Conference of Governmental Industrial Hygienists (ACGIH) has concluded that silica quartz is a suspected human carcinogen (A2 - limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals with relevance to humans).

### CARCINOGENICITY:

Chemical Name	IARC	NTP	OSHA	Other
Synthetic amorphous silica	3	Not listed	Not listed	(ACGIH) Not listed
Silica, quartz	1	Known Carcinogen	Not listed	(ACGIH) A2

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## 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL DATA:** No data available for the formulation.

Bifenthrin has moderate stability in the soil under aerobic conditions (half-life range from 65 - 125 days depending on soil type) and is stable at a wide range of pH values. Bifenthrin has a high Log Pow (6.6), a high affinity for organic matter, and is not mobile in soil. Therefore, there is little potential for movement into ground water. There is the potential for bifenthrin to bioconcentrate (BCF <2,000).

Acetamiprid degrades rapidly by aerobic soil metabolism. There are no major issues for soil mobility since low use rate and rapid degradation reduce the amount for offsite movement. Environmental residues in drinking water are predicted to be low. Acetamiprid will not bioaccumulate in fish and in sediment, and it poses low risks to the environment relative to most other insecticides.

**ECOTOXICOLOGICAL INFORMATION:** No data available for the formulation.

Bifenthrin is highly toxic to fish and aquatic arthropods and LC<sub>50</sub> values range from 0.0038 to 17.8 µg/L. In general, the aquatic arthropods are the most sensitive species. Care should be taken to avoid contamination of the aquatic environment. Bifenthrin had no effect on mollusks at its limit of water solubility. Bifenthrin is only slightly toxic to both waterfowl and upland game birds (LD<sub>50</sub> values range from 1,800 mg/kg to >2,150 mg/kg).

Acetamiprid use would pose minimal risk to fish and wildlife. Toxicity of Acetamiprid is selective to insects, but some uses may pose a risk to certain non-target aquatic invertebrates. It is only moderately toxic to bees. Acetamiprid use would generally pose low risk to threatened and endangered species, and it would pose minimal risk to non-target plants.

LD<sub>50</sub> > 180 mg/kg (oral, Bobwhite quail)  
 LC<sub>50</sub> (48-hour) > 100 mg/L (Carp)  
 LC<sub>50</sub> (24-hour) >200 mg/L (Daphnia magna)  
 LD<sub>50</sub> = 7.1 µg (Honey bee contact)  
 LC<sub>50</sub> (96-hour) = 119.3 g/m<sup>3</sup> (Rainbow Trout)  
 EC<sub>50</sub> (72-hour) > 98.3 mg/L (Algae)

## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Open dumping or burning of this material or its packaging is prohibited. If spilled material cannot be disposed of by use according to label instructions, an acceptable method of disposal is to incinerate in accordance with local, state and national environmental laws, rules, standards and regulations. However, because acceptable methods of disposal may vary by location and regulatory requirements may change, the appropriate agencies should be contacted prior to disposal.

**EMPTY CONTAINER:** Non-returnable containers that held this material should be cleaned, prior to disposal, by triple rinsing. Containers which held this material may be cleaned by being triple-rinsed, and recycled, with the rinsate being incinerated. Do not cut or weld metal containers. Vapors that form may create an explosion hazard. If burned, stay out of smoke.

## 14. TRANSPORT INFORMATION

### U.S. DEPARTMENT OF TRANSPORTATION (DOT)

<b>PACKAGING TYPE:</b>	Non-Bulk
<b>PROPER SHIPPING NAME:</b>	Not regulated as a hazardous material
<b>PACKAGING TYPE:</b>	Bulk
<b>PROPER SHIPPING NAME:</b>	Environmentally hazardous substance, solid, n.o.s.
<b>TECHNICAL NAME(S):</b>	Bifenthrin
<b>PRIMARY HAZARD CLASS / DIVISION:</b>	9

**UN/NA NUMBER:** UN 3077  
**PACKING GROUP:** III  
**MARINE POLLUTANT:** Bifenthrin

**INTERNATIONAL MARITIME DANGEROUS GOODS (IMDG)**

**PACKAGING TYPE:** Non-Bulk  
**PROPER SHIPPING NAME:** Environmentally hazardous substance, solid, n.o.s.  
**TECHNICAL NAME(S):** Bifenthrin  
**PRIMARY HAZARD CLASS / DIVISION:** 9  
**UN/NA NUMBER:** UN 3077  
**PACKING GROUP:** III  
**MARINE POLLUTANT:** Bifenthrin  
**ADDITIONAL INFORMATION:** EmS Number: F-A, S-F

**ADR - EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD**

**PACKAGING TYPE:** Non-Bulk  
**PROPER SHIPPING NAME:** Environmentally hazardous substance, solid, n.o.s.  
**TECHNICAL NAME(S):** Bifenthrin  
**PRIMARY HAZARD CLASS / DIVISION:** 9  
**CLASSIFICATION CODE:** M7  
**UN/NA NUMBER:** UN3077  
**PACKING GROUP:** III  
**HAZARD IDENTIFICATION NUMBER:** 90  
**ADDITIONAL INFORMATION:** Environmentally Hazardous Substance: Bifenthrin

**INTERNATIONAL CIVIL AVIATION ORGANIZATION (ICAO) / INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA)**

**PACKAGING TYPE:** Non-Bulk  
**PROPER SHIPPING NAME:** Environmentally hazardous substance.



	solid, n.o.s.
<b>TECHNICAL NAME(S):</b>	Bifenthrin
<b>PRIMARY HAZARD CLASS / DIVISION:</b>	9
<b>UN/NA NUMBER:</b>	UN3077
<b>PACKING GROUP:</b>	III
<b>ADDITIONAL INFORMATION:</b>	Environmentally Hazardous Substance: Bifenthrin

**OTHER INFORMATION:**

HARMONIZED SYSTEM  
Import to the U.S.A.: 3808.91.2500  
Export from the U.S.A.: 3808.91.0000

## 15. REGULATORY INFORMATION

### UNITED STATES

**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**

**SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355, APPENDIX A):**  
Not listed

**SECTION 311 HAZARD CATEGORIES (40 CFR 370):**  
Immediate, Delayed

**SECTION 312 THRESHOLD PLANNING QUANTITY (40 CFR 370):**  
The Threshold Planning Quantity (TPQ) for this product, if treated as a mixture, is 10,000 lbs; however, this product contains the following ingredients with a TPQ of less than 10,000 lbs.:  
None

**SECTION 313 REPORTABLE INGREDIENTS (40 CFR 372):**  
This product contains the following ingredients subject to Section 313 reporting requirements:  
Bifenthrin

**CERCLA (COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT)**

**CERCLA DESIGNATION & REPORTABLE QUANTITIES (RQ) (40 CFR 302.4):**  
Not listed

**FEDERAL INSECTICIDE FUNGICIDE RODENTICIDE ACT**  
U.S. EPA Signal Word: CAUTION

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## 16. OTHER INFORMATION

### NFPA

Health	2
Flammability	1
Reactivity	0
Special	None

No special requirements

NFPA (National Fire Protection Association)

Degree of Hazard Code:

4 = Extreme

3 = High

2 = Moderate

1 = Slight

0 = Insignificant

### **REVISION SUMMARY:**

This MSDS replaces Revision #2, dated October 22, 2007.

Changes in information are as follows:

Section 1 (Product and Company Identification)

Section 3 (Composition / Information on Ingredients)

Section 8 (Exposure Controls / Personal Protection)

Section 14 (Transport Information)

Section 15 (Regulatory Information)

Section 16 (Other Information)

TRANSPORT - Registered trademark of Nippon Soda Company

FMC Logo - Trademark of FMC Corporation

SuperSoap - Trademark of Weba Technologies, Inc.; Tide - Trademark of Proctor and Gamble; Spic and

Span: Trademark of The Spic and Span Company; Clorox - Trademark of The Clorox Company

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