

# MATERIAL SAFETY DATA SHEET

## FIRSTLINE™ TERMITE BAIT



MSDS Ref. No.: 4151-50-2-4

Date Approved: 10/30/2007

Revision No.: 5

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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 EC directive, 2001/58/EC and other regulatory requirements. The information contained herein is for the concentrate as packaged, unless otherwise noted.

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## 1. PRODUCT AND COMPANY IDENTIFICATION

<b>PRODUCT NAME:</b>	FIRSTLINE™ TERMITE BAIT
<b>PRODUCT CODE:</b>	1629
<b>ACTIVE INGREDIENT(S):</b>	Sulfluramid
<b>CHEMICAL FAMILY:</b>	Fluoroaliphatic sulfonamide
<b>MOLECULAR FORMULA:</b>	C <sub>10</sub> H <sub>6</sub> F <sub>17</sub> NO <sub>2</sub> S (sulfluramid)
<b>SYNONYMS:</b>	FMC 66898; GX071; F1898; N-ethyl perfluorooctanesulfonamide; IUPAC: N-ethyl perfluoro-octane-1-sulfonamide

### 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:

- Brown to tan, odorless, solid (cardboard treated with 100 ppm).
- Combustible. Will support combustion at elevated temperatures.
- Thermal decomposition and burning may form toxic by-products.
- For large exposures or fire, wear personal protective equipment.
- Slightly toxic to fish and aquatic organisms. Keep out of drains and water courses.

**POTENTIAL HEALTH EFFECTS:** Effects from overexposure result from swallowing this product. Symptoms of overexposure include diarrhea.

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

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### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Wt. %	EC No.	EC Class
Sulfluramid	4151-50-2	0.01	223-980-3	Not classified

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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.

**INGESTION:** Drink 1 or 2 glasses 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, obtain medical attention.

**NOTES TO MEDICAL DOCTOR:** This product is expected to have low oral, dermal and inhalation toxicity. It is expected to be practically non-irritating to the skin and eyes. 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:** Combustible. 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:** 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.

To clean spill area, wash with a solution of soap and water. Sweep or scrape up material, place it into a container, and label contents. Dispose of containerized wastes according to the method given in Section 13, "Disposal Considerations".

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## 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 contaminate other pesticides, fertilizers, water, food or feed by storage or disposal.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**ENGINEERING CONTROLS:** 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.

**RESPIRATORY:** 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 PVC suit. Leather items - such as shoes, belts and watchbands - that become contaminated should be removed and destroyed. Launder all work clothing before reuse (separately from household laundry).

**GLOVES:** Wear chemical protective gloves made of materials such as rubber, neoprene or nitrile. 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>	Odorless
<b>APPEARANCE:</b>	Brown to tan solid (cardboard 100 ppm)
<b>MOLECULAR WEIGHT:</b>	527.2 (sulfluramid)
<b>SOLUBILITY IN WATER:</b>	Insoluble

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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>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	May produce hydrogen fluoride.

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## 11. TOXICOLOGICAL INFORMATION

**EYE EFFECTS:** Expected to be practically non-irritating.

**SKIN EFFECTS:** Expected to be practically non-irritating.

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

**ORAL LD<sub>50</sub>:** > 5,000 mg/kg (rat)

**INHALATION LC<sub>50</sub>:** Sulfluramid: > 4.4 mg/l (4 h) (rat)

**SENSITIZATION:** A similarly-formulated product produces moderate skin sensitization in laboratory animals, and may produce similar effects in humans.

**ACUTE EFFECTS FROM OVEREXPOSURE:** This product is expected to have low oral, dermal and inhalation toxicity. It is expected to be practically non-irritating to the skin and eyes. Large doses of a similarly-formulated product, administered to laboratory animals, have produced symptoms such as diarrhea and abdominogenital staining.

**CHRONIC EFFECTS FROM OVEREXPOSURE:** No data available for the formulation. In a battery of tests, sulfluramid was shown to be non-mutagenic. Sulfluramid was shown to be non-teratogenic in developmental toxicity studies with laboratory animals. Preliminary studies in dogs suggest that the ingestion of high doses for prolonged periods may arrest spermatogenesis.

**CARCINOGENICITY:**

<b>NTP:</b>	Not listed
<b>IARC:</b>	Not listed
<b>OSHA:</b>	Not listed
<b>OTHER:</b>	(ACGIH) Not listed

**COMMENTS:**

The data presented above are for a similarly-formulated product, or for the active ingredient, as noted.

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## 12. ECOLOGICAL INFORMATION

Unless otherwise indicated, the data presented below are for the active ingredient.

**ENVIRONMENTAL DATA:** Sulfluramid has a Log Pow of >6.85, is considered immobile in soil, and is unlikely to enter groundwater.

**ECOTOXICOLOGICAL INFORMATION:** Sulfluramid is considered slightly toxic to fish and aquatic arthropods (LC<sub>50</sub> values >6.6 - 10 mg/L). The toxicity to birds is considered moderate by single oral exposure, but high when the exposure is via the diet. The oral LD<sub>50</sub> in bobwhite quail is 474 mg/kg, while the dietary LC<sub>50</sub> is 300 ppm. The dietary LC<sub>50</sub> in the mallard is 165 ppm.

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## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Open dumping or burning of this material or its packaging is prohibited. Empty containers can be disposed of with ordinary household trash, as per label recommendations.

**EMPTY CONTAINER:** For larger quantities, as in the case of spills, the preferred method of disposal is to incinerate in accordance with local, state and national laws and regulations. If this method is not available, then dispose of empty container in a sanitary landfill. However, because acceptable methods of disposal may vary by location, and regulatory requirements may change, contact the appropriate regulatory authority prior to disposal.

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## 14. TRANSPORT INFORMATION

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

**PACKAGING TYPE:** Non-Bulk

**ADDITIONAL INFORMATION:**

This material is not a hazardous material as defined by US Department of Transportation at 49 CFR Parts 100 through 185.

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## 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):**

There are no ingredients in this product, which are subject to Section 313 reporting requirements.

**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

### INTERNATIONAL LISTINGS

Australian Hazard Code: Not available

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## 16. OTHER INFORMATION

NFPA

Health	0
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 #4, dated August 18, 2004.

Changes in information are as follows:

Section 1 (Product and Company Identification)

Section 15 (Regulatory Information)

Section 16 (Other Information)

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