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Assembly Bill #2260

Letter to Parent or Guardian

M.S.D.S. Data

Posting/Filing Information

Information Sheet for Parents Regarding AB 2260, the Healthy Schools Act of 2000

In September 2000, Governor Davis signed into law the Healthy Schools Act of 2000 (Assembly Bill 2260). This law requires schools to notify parents, guardians and school employees about pesticides used in their schools, and requires the Department of Pesticide Regulation to promote the voluntary adoption of integrated pest management (IPM) practices in California schools. Most provisions of the law take effect 1 January 2001. Each school district is to implement the following requirements of the law:

- Notification of all pesticide products the school district expects to use on school grounds must be sent annually to parents or guardians of all students. These products include over-the-counter pesticides available at retail outlets, but do not include certain products exempted under the law. The notifications must list the active ingredients in each pesticide product and the Internet address for the Department of Pesticide Regulation (DPR) to access additional information. Visit DPR's Web site at <http://www.cdpr.ca.gov> and click on School IPM Program.
- Each school will establish a list of parents or guardians who want to be notified before individual pesticide applications are made.
- Each school district will ensure that warning notices are posted in areas where pesticides will be applied. These signs will be posted 24 hours in advance and 72 hours after application of pesticides, and will contain information as specified in the law.
- Each school will maintain records of all pesticide use at the school for four years and the records will be available to the public upon request.

For more information, contact your local school district.

The Department of Pesticide Regulation's school IPM program aims to promote and facilitate the voluntary adoption of IPM programs.

- DPR will develop a model IPM program guidebook that reflects conditions in California.
- DPR will establish and maintain an Internet Web site that functions as a comprehensive directory of IPM resources.
- DPR will assist school districts to establish IPM policies and programs.

- DPR will establish an IPM training program for individuals designated by the districts to be in charge of pest management.

For more information, go to <http://www.cdpr.ca.gov/> and click on School IPM Program, or email DPR at school_ipm@empm.cdpr.ca.gov.

Assembly Bill No. 2260

CHAPTER 718

An act to add Section 48980.3 to, and to add Article 4 (commencing with Section 17608) to Chapter 5 of Part 10.5 of, the Education Code, and to add Article 17 (commencing with Section 13180) to Chapter 2 of Division 7 of the Food and Agricultural Code, relating to school safety.

[Approved by Governor September 25, 2000. Filed with Secretary of State September 27, 2000.]

LEGISLATIVE COUNSEL'S DIGEST

AB 2260, Shelley. School safety.

Under existing law, the Department of Pesticide Regulation has primary responsibility for enforcing pesticide laws and regulations. Existing law establishes and maintains various programs to promote health and prevent disease.

This bill would establish the Healthy Schools Act of 2000. The bill would require that the preferred method of managing pests at schoolsites be effective least toxic pest management practices and would further require that the state take the necessary steps, pursuant to specified provisions, to facilitate the adoption of effective least management practices at schoolsites. The bill would require each schoolsite to maintain records of all pesticide use at the schoolsite for a period of 4 years and make the records available to the public upon request, thus imposing a state-mandated local program. The bill would require that licensed and certified pest control operators include information on any school pesticide application that they perform as part of their otherwise applicable pesticide use reporting requirements.

The bill would require, on an annual basis, the school district designee to provide to all staff and parents or guardians of pupils enrolled at a school written notification addressing, among other things, expected pesticide use, thus imposing a state-mandated local program. The bill would require that the recipients be afforded the opportunity to register with the school district to receive information regarding individual pesticide applications. The bill would require the school district designee to post warning signs prior to application of pesticides at a schoolsite, thus imposing a state-mandated local program.

The bill would require the Department of Pesticide Regulation to promote and facilitate the voluntary adoption of integrated pest management programs as specified, maintain an internet website, and establish an integrated pest management training program. The

bill would provide definitions of terms for the Healthy Schools Act of 2000.

The California Constitution requires the state to reimburse local agencies and school districts for certain costs mandated by the state. Statutory provisions establish procedures for making that reimbursement, including the creation of a State Mandates Claims Fund to pay the costs of mandates that do not exceed \$1,000,000 statewide and other procedures for claims whose statewide costs exceed \$1,000,000.

This bill would provide that, if the Commission on State Mandates determines that the bill contains costs mandated by the state, reimbursement for those costs shall be made pursuant to these statutory provisions.

The people of the State of California do enact as follows:

SECTION 1. Article 4 (commencing with Section 17608) is added to Chapter 5 of Part 10.5 of the Education Code, to read:

Article 4. Healthy Schools Act of 2000

17608. This article, Article 17 (commencing with Section 13180) of Chapter 2 of Division 7 of the Food and Agricultural Code, and Article 2 (commencing with Section 105500) of Chapter 76 of Division 103 of the Health and Safety Code, shall be known and cited as the Healthy Schools Act of 2000.

17609. The definitions set forth in this section govern the construction of this article unless the context clearly requires otherwise:

(a) "Antimicrobial" means those pesticides defined by the Federal Insecticide, Fungicide, and Rodenticide Act (7 U.S.C. Sec. 136(mm)).

(b) "Crack and crevice treatment" means the application of small quantities of a pesticide consistent with labeling instructions in a building into openings such as those commonly found at expansion joints, between levels of construction and between equipment and floors.

(c) "Emergency conditions" means any circumstances in which the school district designee deems that the immediate use of a pesticide is necessary to protect the health and safety of pupils, staff, or other persons, or the schoolsite.

(d) "School district designee" means the individual identified by the school district to carry out the requirements of this article at the schoolsite.

(e) "Schoolsite" means any facility used for public day care, kindergarten, elementary, or secondary school purposes. The term includes the buildings or structures, playgrounds, athletic fields,

school vehicles, or any other area of school property visited or used by pupils. "Schoolsite" does not include any postsecondary educational facility attended by secondary pupils or private day care or school facilities.

17610. It is the policy of the state that effective least toxic pest management practices should be the preferred method of managing pests at schoolsites and that the state, in order to reduce children's exposure to toxic pesticides, shall take the necessary steps, pursuant to Article 17 (commencing with Section 13180) of Chapter 2 of Division 7 of the Food and Agricultural Code, to facilitate the adoption of effective least toxic pest management practices at schoolsites. It is the intent of the Legislature to encourage appropriate training to be provided to school personnel involved in the application of pesticide at a schoolsite.

17610.5. Sections 17611 and 17612 shall not apply to a pesticide product deployed in the form of a self-contained bait or trap, to gel or paste deployed as a crack and crevice treatment, to any pesticide exempted from regulation by the United States Environmental Protection Agency pursuant to the Federal Insecticide, Fungicide, and Rodenticide Act (7 U.S.C. Sec. 25 (b)), or to antimicrobial pesticides, including sanitizers and disinfectants.

17611. Each schoolsite shall maintain records of all pesticide use at the schoolsite for a period of four years, and shall make this information available to the public, upon request, pursuant to the California Public Records Act (Chapter 3.5 (commencing with Section 6250) of Division 7 of Title 1 of the Government Code). A schoolsite may meet the requirements of this section by retaining a copy of the warning sign posted for each application required pursuant to Section 17612, and recording on that copy the amount of the pesticide used.

17612. (a) The school district designee shall annually provide to all staff and parents or guardians of pupils enrolled at a schoolsite a written notification of the name of all pesticide products expected to be applied at the school facility during the upcoming year. The notification shall identify the active ingredient or ingredients in each pesticide product. The notice shall also contain the Internet address used to access information on pesticides and pesticide use reduction developed by the Department of Pesticide Regulation pursuant to Section 13184 of the Food and Agricultural Code and may contain other information deemed necessary by the school district designee. No other written notification of pesticide applications shall be required by this act except as follows:

(1) In the written notification provided pursuant to this subdivision, the school district designee shall provide the opportunity for recipients to register with the school district if they wish to receive notification of individual pesticide applications at the school facility. Persons who register for such notification shall be notified of

individual pesticide applications at least 72 hours prior to the application. The notice shall include the product name, the active ingredient or ingredients in the product, and the intended date of application.

(2) If a pesticide product not included in the annual notification is subsequently intended for use at the schoolsite, the school district designee shall, consistent with this subdivision and at least 72 hours prior to application, provide written notification of its intended use.

(b) The school designee shall make every effort to meet the requirements of this section in the least costly manner. Annual notification to parents and guardians shall be provided pursuant to Section 48980.3. Any other notification shall, to the extent feasible and consistent with the act adding this article, be included as part of any other written communication provided to individual parents or guardians. Nothing in this section shall require the school district designee to issue the notice through first-class mail, unless he or she determines that no other method is feasible.

(c) Pest control measures taken during an emergency condition as defined in Section 17609 shall not be subject to the requirements of paragraphs (1) and (2) of subdivision (a). However, the school district designee shall make every effort to provide the required notification for an application of a pesticide under emergency conditions.

(d) The school district designee shall post each area of the schoolsite where pesticides will be applied with a warning sign. The warning sign shall prominently display the term "Warning/Pesticide Treated Area" and shall include the product name, manufacturer's name, the United States Environmental Protection Agency's product registration number, intended date and areas of application, and reason for the pesticide application. The warning sign shall be visible to all persons entering the treated area and shall be posted 24 hours prior to the application and remain posted until 72 hours after the application. In case of a pest control emergency, the warning sign shall be posted immediately upon application and shall remain posted until 72 hours after the application.

(e) Subdivisions (a) and (d) shall not apply to schools operated by the California Youth Authority. The school administrator of a school operated by the California Youth Authority shall notify the chief medical officer of that facility at least 72 hours prior to application of pesticides. The chief medical officer shall take any steps necessary to protect the health of pupils in that facility.

(f) This section and Section 17611 shall not apply to activities undertaken at a school by participants in the state program of agricultural vocational education, pursuant to Article 7 (commencing with Section 52450) of Chapter 9 of Part 28, if the activities are necessary to meet the curriculum requirements prescribed in Section 52454. Nothing in this subdivision relieves

schools participating in the state program of agricultural vocational education of any duties pursuant to this section for activities that are not directly related to the curriculum requirements of Section 52454.

17613. Section 17612 shall not apply to any agency signatory to a cooperative agreement with the State Department of Health Services pursuant to Section 116180 of the Health and Safety Code.

SEC. 2. Section 48980.3 is added to the Education Code, to read:

48980.3. The notification required pursuant to Section 48980 shall include information regarding pesticide products as specified in subdivision (a) of Section 17612.

SEC. 3. Article 17 (commencing with Section 13180) is added to Chapter 2 of Division 7 of the Food and Agricultural Code, to read:

Article 17. Healthy Schools Act of 2000

13180. This article, Article 4 (commencing with Section 17608) of Chapter 5 of Part 10.5 of the Education Code, and Article 2 (commencing with Section 105500) of Chapter 7 of Division 103 of the Health and Safety Code, shall be known and may be cited as the Healthy Schools Act of 2000.

13181. Notwithstanding any other provision of law, for purposes of this article, "integrated pest management" means a pest management strategy that focuses on long-term prevention or suppression of pest problems through a combination of techniques such as monitoring for pest presence and establishing treatment threshold levels, using nonchemical practices to make the habitat less conducive to pest development, improving sanitation, and employing mechanical and physical controls. Pesticides that pose the least possible hazard and are effective in a manner that minimizes risks to people, property, and the environment, are used only after careful monitoring indicates they are needed according to preestablished guidelines and treatment thresholds. This definition shall apply only to integrated pest management at school facilities.

13182. It is the policy of the state that effective least toxic pest management practices should be the preferred method of managing pests at schoolsites and that the state, in order to reduce children's exposure to toxic pesticides, shall take the necessary steps, pursuant to this article, to facilitate the adoption of effective least toxic pest management practices at schoolsites. It is the intent of the Legislature to encourage appropriate training to be provided to school personnel involved in the application of pesticide at a schoolsite.

13183. The Department of Pesticide Regulation shall, by July 1, 2001, promote and facilitate the voluntary adoption of integrated pest management programs for all school districts that voluntarily choose to do so. For these school districts, the department shall do all of the following:

(a) Establish an integrated pest management program for school districts consistent with Section 13181. In establishing the program, the department shall:

(1) Develop criteria for identifying least-hazardous pest control practices and encourage their adoption as part of an integrated pest management program at each schoolsite.

(2) Develop a model program guidebook that prescribes essential program elements for a school district that has adopted a least-hazardous integrated pest management program. At a minimum, this guidebook shall include guidance on all of the following:

(A) Adopting an IPM policy.

(B) Selecting and training an IPM coordinator.

(C) Identifying and monitoring pest populations and damage.

(D) Establishing a community-based school district advisory committee.

(E) Developing a pest management plan for making least-hazardous pest control choices.

(F) Contracting for integrated pest management services.

(G) Training and licensing opportunities.

(H) Establishing a community-based right-to-know standard for notification and posting of pesticide applications.

(I) Recordkeeping and program review.

(b) Make the model program guidebook available to school districts and establish a process for systematically updating the guidebook and supporting documentation.

13184. (a) In implementing Section 13183, the department shall establish and maintain an Internet website as a comprehensive directory of resources describing and promoting least-hazardous practices at schoolsites. The website shall also make available an electronic copy of the model program guidebook, its updates, and supporting documentation. The department shall also establish and maintain on its website an easily identified link that provides the public with all appropriate information regarding the public health and environmental impacts of pesticide active ingredients and ways to reduce the use of pesticides at school facilities.

(b) It is the intent of the Legislature that the state assist school districts to ensure that compliance with Section 17612 of the Education Code is simple and inexpensive. The department shall include in its website Internet-based links that allow schools to properly identify and list the active ingredients of pesticide products they expect to be applied during the upcoming year. Use of these links by schools is not mandatory but shall be made available to all schools at no cost. The department shall ensure that adequate resources are available to respond to inquiries from school facilities or districts regarding the use of integrated pest management practices.

13185. (a) The department shall establish an integrated pest management training program in order to facilitate the adoption of a model IPM program and least-hazardous pest control practices by school districts. In establishing the IPM training program, the department shall do all of the following:

(1) Adopt a "train-the-trainer" approach, whenever feasible, to rapidly and broadly disseminate program information.

(2) Develop curricula and promote ongoing training efforts in cooperation with the University of California and the California State University.

(3) Prioritize outreach on a regional basis first and then to school districts.

(b) Nothing in this article shall preclude a school district from adopting stricter pesticide use policies.

13186. (a) The Legislature finds and declares that the Department of Pesticide Regulation, pursuant to Section 12979 of the Food and Agricultural Code and Sections 6624 and 6627 of Title 3 of the California Code of Regulations, requires persons engaged for hire in the business of pest control to maintain records of pesticide use and report a summary of that pesticide use to the county agricultural commissioner or director. The Legislature further finds and declares that it is in the interest of the state, in implementing a school integrated pest management program pursuant to this article, to collect specified information on the use of pesticides at school facilities.

(b) The Department of Pesticide Regulation shall prepare a school pesticide use form to be used by licensed and certified pest control operators when they apply any pesticides at a schoolsite. The form shall include, for each application at a schoolsite, the name and address of the schoolsite, date and location of application, pesticide product name, and the quantity of pesticide used. Nothing in this section shall change any existing applicable pesticide use reporting requirements.

(c) On and after January 1, 2002, persons required to submit pesticide use records to the county agricultural commissioner or director shall complete and submit to the director the school pesticide use forms established pursuant to this section. The forms shall be submitted annually and may be submitted more often at the discretion of the pest control operator maintaining the forms.

13187. Section 13186 shall not apply to any agency signatory to a cooperative agreement with the State Department of Health Services pursuant to Section 116180 of the Health and Safety Code.

13188. The Director of Pesticide Regulation may adopt regulations to implement this article.

SEC. 4. Notwithstanding Section 17610 of the Government Code, if the Commission on State Mandates determines that this act contains costs mandated by the state, reimbursement to local

agencies and school districts for those costs shall be made pursuant to Part 7 (commencing with Section 17500) of Division 4 of Title 2 of the Government Code. If the statewide cost of the claim for reimbursement does not exceed one million dollars (\$1,000,000), reimbursement shall be made from the State Mandates Claims Fund.



NEVADA JOINT UNION HIGH SCHOOL DISTRICT

JOSEPH K. BOECKX, SUPERINTENDENT

August 2001

Dear Parent or Guardian:

The Healthy Schools Act of 2000 was signed into law in September 2000 and requires that all schools provide parents or guardians of students with annual written notification of expected pesticide use on school sites. The attached notification identifies the active ingredient or ingredients in each pesticide product and will include the Internet address: <http://www.cdpr.ca.gov> for further information on pesticides and their alternatives.

Parents and guardians may request prior notification of individual pesticide applications at the school site. Beginning September, 2001, people listed on this registry will be notified at least 72 hours before pesticides are applied. If you would like to be notified every time we apply a pesticide, please complete and return the form below and mail it to your student's school "Attention: Pesticide Spraying."

If you have any questions, please contact the principal's office at your student's school.

Sincerely,

Joseph K. Boeckx
Superintendent

REQUEST FOR INDIVIDUAL PESTICIDE APPLICATION NOTIFICATION

Name of School _____

I understand that, upon request, the school district is required to supply information about individual pesticide applications at least 72 hours before application. I would like to be notified before each pesticide application at this school.

I would prefer to be contacted by (circle one): U.S. Mail E-mail Phone

Please Print Neatly:

Student's Name: _____ Date: _____

Name of Parent/Guardian: _____

Address: _____

Day Phone: _____ Evening Phone: _____

E-mail: _____

Return to: _____ / _____
Name Address



NEVADA JOINT UNION HIGH SCHOOL DISTRICT

JOSEPH K. BOECKX, SUPERINTENDENT

August 2001

The Healthy School Act of 2000 requires all California school districts to notify parents and guardians of pesticides they expect to apply during the year. We intend to use the following pesticides in your school this year:

<u>Name of Pesticide</u>	<u>Active Ingredient(s)</u>	<u>What We Use It For</u>
Catalyst	Propetamphos	Fleas/Roaches
Cy-Kick CS	Cyfluthrin	Ants
Cy-Kick™	Cyfluthrin	Ants
Dragnet® SFR	Permethrin	Spiders/Ants
Eaton's Bait Blocks	Diphacinone	Mice, Rats
Max Force® FC Ant Bait	Fipronil	Ants
Max Force® Granular	Hydramethylnon	Ants
Max Force® Roach Bait	Hydramethylnon	Roach
Precor IGR	Methoprene	Fleas
Premise® 75	Imidacloprid	Termites
Round Up® Pro	Glyphosate	Weed Control
Suspend® SC	Deltamethrin	Spiders/Ants
Talon G	Brodifacoum	Rodents
Talstar	Bifenthrin	Ants
Tempo 20WP	Cyfluthrin	Spiders
Tempo SC Ultra	Cyano-methyl- cyclopropane- carboxylate	Insects/Spiders
Wasp-Freeze®	Phenothrin & Trans Allethrin <i>WARFREN</i>	Wasps

You can find more information regarding these pesticides and pesticide use reduction at the Department of Pesticide Regulation's Web site at <http://www.cdpr.ca.gov> – if you have any questions, please contact your student's school and ask for the person in charge of pesticide spraying.

Sincerely,

Joseph K. Boeckx
Superintendent

BASF Corporation

BASF**MATERIAL SAFETY DATA SHEET**

Agricultural Products Group
P.O.Box 13528,
Research Triangle Park, NC 27709
(919) 547-2000

EMERGENCY TELEPHONE NUMBERS:

BASF Corporation: 1 (800) 832-HELP

CHEMTREC: 1 (800) 424-9300

Product No.: 579717 Phantom® termiticide-insecticide

Date Prepared: 8/3/2000 Date Revised: 3/14/2002

SECTION I

Trade Name: Phantom® termiticide-insecticide

Chemical Name: 4-bromo-2-(4-chlorophenyl)-1-ethoxymethyl-5-(trifluoromethyl)-1H-pyrrole-3-carbonitrile

Synonyms: chlorfenapyr, CL 303,630

Formula: C(15) H(11) Br Cl F(3) N(2) O

Chemical Family: Pyrrole

Mol Wt: 407.62

SECTION II - INGREDIENTS

COMPONENT	CAS NO.	%	PEL/TLV - SOURCE
CL 303,630 Technical (chlorfenapyr)	122453-73-0	21.44	None established
Propylene glycol	57-55-6	7.50	None established
Inerts	N/A	71.06	None established

SARA Title III Section 313: Not listed

SECTION III - PHYSICAL DATA

BOILING/MELTING POINT@760mm Hg: N/D pH: 6.87 @ 2% dispersion

VAPOR PRESSURE mmHg @ 20°C: N/D

SPECIFIC GRAVITY OR BULK DENSITY: 1.16 g/mL @ 20° C

SOLUBILITY IN WATER: Disperses

APPEARANCE: Tan liquid

ODOR: Sweet

INTENSITY: Mild

SECTION IV - FIRE AND EXPLOSION DATA

FLASII POINT (TEST METHOD): N/D

AUTOIGNITION TEMP: N/D

FLAMMABILITY LIMITS IN AIR (% BY VOL):

LOWER: N/D

UPPER: N/D

NFPA 704 HAZARD CODES

HEALTH: N/R

FLAMMABLE: N/R

INSTABILITY: N/R

OTHER: N/R

NFPA 30 STORAGE CLASSIFICATION: N/R

EXTINGUISHING MEDIUM Use water fog, foam, CO(2), or dry chemical extinguishing media.

SPECIAL FIREFIGHTING PROCEDURES Firefighters should be equipped with self-contained breathing apparatus and turnout gear. Decontaminate emergency personnel with soap and water before leaving the fire area.

UNUSUAL FIRE EXPLOSION HAZARDS None known.

SELECT ACRONYM KEY

N/A - Not available; N/D - Not determined; N/R - Not rated; N/E - Not established

Product No.: 579717

Phantom® termiticide-insecticide

BASF Corporation

SECTION V - HEALTH DATA**TOXICOLOGICAL TEST DATA:**

Data for the formulated product:

Rat (male), Oral LD50 = 560 mg/kg

Rat (female), Oral LD50 = 567 mg/kg

Rabbit, Dermal LD50 > 2000 mg/kg

Rat, males Inhalation LC50 (4 hr) = 0.571 mg/L

Rat, females Inhalation LC50 (4 hr) = 2.43 mg/L

Rabbit, Eye Irritation - Slightly irritating

Rabbit, Skin Irritation - Slightly irritating

Guinea pig, Dermal Sensitizer - Not a sensitizer

Note: Inhalation data for mists were not used to classify this material for transportation because it is reasonably foreseeable that such concentrations (mists) would not be encountered by a human during transport 49 CFR 173.102 (b) (3) 0 - 0

OSHA, NTP, or IARC Carcinogen: Not listed.

EFFECTS OF OVEREXPOSURE:

See Product Label and Directions For Use for additional precautionary statements.

CAUTION

Harmful if swallowed, inhaled or absorbed through the skin. Causes moderate eye irritation. Do not get in eyes, on skin, or on clothing. Avoid breathing vapors or spray mist. Remove contaminated clothing and wash clothing before reuse.

Existing medical conditions aggravated by this product:

None known.

FIRST AID PROCEDURES

- If swallowed:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Do not give anything to an unconscious person.
- If on skin or clothing:** 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.
- If inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
- If in eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
- Note:** Have the product container or label with you when calling a poison control center or doctor or going for treatment.

SECTION VI - REACTIVITY DATA**STABILITY:** Stable. Do not store below 32° F. Do not store in heat or in sunlight.**CONDITIONS TO AVOID:** Store in original container in cool, dry, well ventilated place away from ignition sources, heat or flame.**CHEMICAL INCOMPATIBILITY:** Oxidizing agents.**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxides of carbon and nitrogen, acid halides.**HAZARDOUS POLYMERIZATION:** Does not occur.**CONDITIONS TO AVOID:** Does not polymerize.**CORROSIVE TO METAL:** No**OXIDIZER:** No

Product No.: 579717

Phantom® termiticide-insecticide

BASF Corporation

SECTION VII - PERSONAL PROTECTION

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

RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS:**Respiratory Protection:**

Supplied air respirators should be worn if large quantities of mist/dust are generated or prolonged exposure possible.

Eye Protection:

Chemical goggles when respirator does not provide eye protection.

Protective Clothing:

Long-sleeved shirt, slacks, shoes and socks, chemically resistant gloves such as barrier laminate

Ventilation:

Whenever possible, engineering controls should be used to minimize the need for personal protective equipment.

or butyl rubber, or nitrile rubber or neoprene or polyvinyl chloride (PVC) or viton (> 14 mils).

SECTION VIII - ENVIRONMENTAL DATA**ENVIRONMENTAL TOXICITY DATA**

This product is toxic to aquatic organisms, birds, and wildlife.

SARA 311/312 REPORTING

FIRE:N PRESSURE:N REACTIVITY:N ACUTE:Y CHRONIC:N TPQ(lbs): N/R

SPILL AND LEAK PROCEDURES:

In case of large scale spillage of this product, avoid contact, isolate area and keep out animals and unprotected persons. Call CHEMTREC (800 424-9300) or BASF Corporation (800 832-HELP). For a small spill, wear personal protective equipment as specified on the label.

FOR A LIQUID SPILL: Dike and contain the spill with inert material (sand, earth, etc.) and transfer the liquid and solid dike materials to separate containers for disposal.

FOR A SOLID SPILL: Sweep solid into a drum for re-use or disposal. Remove personal protective equipment and decontaminate it prior to re-use.

HAZARDOUS SUBSTANCE SUPERFUND: No

RQ(lbs): None

WASTE DISPOSAL METHOD:

Pesticide wastes are acutely hazardous. Wastes resulting from this product may be disposed of on site or at an approved waste disposal facility. Improper disposal of excess pesticide, spray mix or rinsate is a violation of federal law. If these wastes cannot be disposed of according to label instructions, contact the state agency responsible for pesticide regulation or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

HAZARDOUS WASTE 40CFR261: No

HAZARDOUS WASTE NUMBER: None

CONTAINER DISPOSAL:

FOR PLASTIC CONTAINERS: Triple rinse (or equivalent) and add rinsate to the spray tank. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

FOR BULK CONTAINERS: Reusable containers should be returned to the point of purchase for cleaning and re-filling.

FOR MINIBULK CONTAINERS: Clean all tanks on an approved loading pad so rinsate can be collected and mixed into the spray solution or into a dedicated tank. Using a high pressure sprayer, rinse several times with small volumes of water to minimize rinsate.

Product No.: 579717

Phantom® termiticide-insecticide

BASF Corporation

SECTION IX - SHIPPING DATA - PACKAGE AND BULK

D.O.T. PROPER SHIPPING NAME (49CFR172.101-102):

None

HAZARDOUS SUBSTANCE
(49CFR CERCLA LIST):

RQ(lbs): None

D.O.T. HAZARD CLASSIFICATION (CFR 172.101-102):

PRIMARY

SECONDARY

None

D.O.T. LABELS REQUIRED (49CFR172.101-102):

None

D.O.T. PLACARDS
REQUIRED (CFR172.504):

None

POISON CONSTITUENT
(49CFR172.203(K)):

None

BILL OF LADING DESCRIPTION

Insecticides, NOIBN

CC NO.: Not applicable

UN/NA CODE: None

SECTION X - ADDITIONAL INFORMATION

Phantom® termiticide-insecticide

Do not store in heat or in sun light.

EPA Reg. No. 241-392

KEEP OUT OF REACH OF CHILDREN

CAUTION

BASF Corporation

Agricultural Products Group
P.O.Box 13528,
Research Triangle Park, NC 27709
(919) 547-2000**DISCLAIMER**

IMPORTANT: WHILE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE, IT IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU MAKE TESTS TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, YOU EXPRESSLY UNDERSTAND AND AGREE THAT THE DESCRIPTIONS, DESIGNS, DATA, AND INFORMATION FURNISHED BY BASF HEREUNDER ARE GIVEN GRATIS AND BASF ASSUMES NO OBLIGATION OR LIABILITY FOR THE DESCRIPTION, DESIGNS, DATA AND INFORMATION GIVEN OR RESULTS OBTAINED, ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK.



The Chemical Company

Safety Data Sheet

TERMIDOR 9.1% SC.

Revision date : 2010/07/14
Version: 3.0Page: 1/8
(30357976/SDS CPA_US/EN)

1. Product and Company Identification

Use: crop protection product, insecticide

Company
BASF CORPORATION
100 Campus Drive
Florham Park, NJ 07932, USA

24 Hour Emergency Response Information
CHEMTREC: 1-800-424-9300
BASF HOTLINE: 1-800-832-HELP

Substance number: 000000256709
Molecular formula: C₁₂ H₄ Cl₂ F₆ N₄ O S
Chemical family: phenyl pyrazole
Synonyms: fipronil

2. Hazards Identification

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.

See Product Label for additional precautionary statements.

State of matter: liquid
Colour: beige
Odour: characteristic

Potential health effects

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

Acute toxicity:
Slightly toxic after single ingestion. Slightly toxic after short-term skin contact. Slightly toxic after short-term inhalation.

Irritation / corrosion:
May cause slight irritation to the skin. May cause moderate but temporary irritation to the eyes.

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Sensitization:

Skin sensitizing effects were not observed in animal studies.

Medical conditions aggravated by overexposure:

Individuals with pre-existing diseases of the respiratory system, skin or eyes may have increased susceptibility to excessive exposures.

Signs and symptoms of overexposure:

CNS stimulation, tremors, convulsions

Potential environmental effects

Aquatic toxicity:

Very toxic (acute effect) to aquatic organisms.

Terrestrial toxicity:

With high probability not acutely harmful to terrestrial organisms.

3. Composition / Information on Ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
120068-37-3	9.1 %	fenprothion
57-55-6	3.0 %	Propylene glycol
	87.9 %	Proprietary ingredients

4. First-Aid Measures

General advice:

First aid providers should wear personal protective equipment to prevent exposure. Remove contaminated clothing. 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 physician for treatment advice. Have the product container or label with you when calling a poison control center or doctor or going for treatment.

If inhaled:

Remove the affected individual into fresh air and keep the person calm.

If on skin:

Rinse skin immediately with plenty of water for 15 - 20 minutes.

If in eyes:

Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing.

If swallowed:

Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Do not induce vomiting. Have person sip a glass of water if able to swallow.

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.

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5. Fire-Fighting Measures

Flash point: > 206.96 °F

Autoignition:

Information applies to the solvent, not applicable

Self-ignition temperature:

not self-igniting

Suitable extinguishing media:

foam, dry powder, carbon dioxide, water spray

Hazards 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.

Protective equipment for fire-fighting:

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:

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.

Cleanup:

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

Handling

General advice:

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.

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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.

Storage

General advice:

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.

Storage incompatibility:

General advice: Segregate from incompatible substances. Segregate from foods and animal feeds. Segregate from textiles and similar materials.

Temperature tolerance

Protect from temperatures below: 0 °C

Changes in the properties of the product may occur if substance/product is stored below indicated temperature for extended periods of time.

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.

8. Exposure Controls and Personal Protection

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

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

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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:	liquid	
Odour:	characteristic	
Colour:	beige	
pH value:	7.2	(10 g/l)
onset of boiling:	approx. 100 °C	(1,013 hPa) Information applies to the solvent.
Density:	1.06 g/cm ³	(20 °C)
Partitioning coefficient n-octanol/water (log Pow):		not applicable
Viscosity, dynamic:	approx. 1,600 - 1,850 mPa.s	(21.6 °C)
Solubility in water:		dispersible
Molar mass:	437,15 g/mol	

10. Stability and Reactivity

Conditions to avoid:

Avoid all sources of ignition: heat, sparks, open flame. Avoid extreme temperatures. Avoid prolonged exposure to extreme heat. Avoid contamination. Avoid electro-static discharge. Avoid prolonged storage.

Substances to avoid:

strong oxidizing agents

Hazardous reactions:

The product is chemically stable.

Hazardous polymerization will not occur. No hazardous reactions if stored and handled as prescribed/indicated.

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.

Corrosion to metals:

Corrosive effects to metal are not anticipated.

Oxidizing properties:

Not an oxidizer.

not fire-propagating

11. Toxicological information

Acute toxicity

Oral:

Type of value: LD50

Species: rat

Value: 1,999 mg/kg

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Inhalation:

Type of value: LC50

Species: rat

Value: > 1.7 mg/l

Exposure time: 4 h

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

Irritation / corrosion**Skin:**

Species: rabbit

Result: Slightly irritating.

Eye:

Species: rabbit

Result: Slightly irritating.

Sensitization:

Species: guinea pig

Skin sensitizing effects were not observed in animal studies.

Genetic toxicity*Information on: fipronil**Results from a number of mutagenicity studies with microorganisms, mammalian cell culture and mammals are available. Taking into account all of the information, there is no indication that the substance is mutagenic.***Carcinogenicity***Information on: fipronil**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.***Reproductive toxicity***Information on: fipronil**Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.***Development:***Information on: fipronil**No indications of a developmental toxic / teratogenic effect were seen in animal studies.*

12. Ecological Information

Fish

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Acute:
Brachydanio rerio/LC50 (96 h): 3.89 mg/l

Aquatic invertebrates

Acute:
Daphnia pulex/EC50 (48 h): 0.2 mg/l

Aquatic plants

Information on: flpronil
Toxicity to aquatic plants:
green algae/EC50 (96 h): 0.068 mg/l
Common duckweed/EC50 (336 h): > 0.160 mg/l
green algae/EC50 (120 h): > 0.140 mg/l
Algae/EC50 (120 h): > 0.170 mg/l
Algae/EC50 (120 h): > 0.120 mg/l

Non-Mammals

Information on: flpronil
Other terrestrial non-mammals:
bobwhite quail/LD50: > 2,000 mg/kg
bobwhite quail/LC50: > 5,000 ppm
Honey bee/LD50: > 100 ug/bee
mallard duck/LC50: > 5,000 ppm

Degradability / Persistence

Biological / Abiological Degradation

Evaluation: Not readily biodegradable (by OECD criteria).

Other adverse effects:

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:

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.
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

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Reference Bill of Lading

15. Regulatory Information

Federal Regulations

Registration status:

Chemical TSCA, US blocked / not listed

Crop Protection TSCA, US released / exempt

OSHA hazard category: Acute target organ effects reported; Chronic target organ effects reported

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

State regulations

<u>State RTK</u>	<u>CAS Number</u>	<u>Chemical name</u>
PA	57-55-6	Propylene glycol

16. Other Information

Refer to product label for EPA registration number.

Recommended use: insecticide

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.

MSDS Prepared by:
BASF NA Product Regulations
msds@basf.com
MSDS Prepared on: 2010/07/14

IMPORTANT: WHILE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE, IT IS PROVIDED FOR YOUR GUIDANCE ONLY BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE. WE RECOMMEND THAT YOU MAKE TESTS TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, YOU EXPRESSLY UNDERSTAND AND AGREE THAT THE DESCRIPTIONS, DESIGNS, DATA, AND INFORMATION FURNISHED BY BASF HEREUNDER ARE GIVEN GRATIS AND BASF ASSUMES NO OBLIGATION OR LIABILITY FOR THE DESCRIPTION, DESIGNS, DATA AND INFORMATION GIVEN OR RESULTS OBTAINED, ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK.

END OF DATA SHEET

MATERIAL SAFETY DATA SHEET

WHITMIRE MICRO-GEN
RESEARCH LABORATORIES, INC.
3568 TREE COURT IND. BLVD.
ST. LOUIS, MO 63122
EFFECTIVE DATE: OCTOBER 28, 1998

Prescription Treatment® brand
CY-KICK™
Crack & Crevice® Pressurized Residual

(800) 777-8570 (8:00 A.M. to 4:30 P.M. CST)
EMERGENCY PHONE NUMBERS:
MEDICAL: (800) 225-3320 PROSAR
TRANSPORTATION: (800) 424-9300 CHEMTREC
EPA REG. NO.: 499-470

SECTION 1: HAZARDOUS INGREDIENTS

Active Ingredients:	ACGIH TLV/TWA	ACGIH STEL	OSHA PEL
Cyfluthrin: 0.1% (CAS #68359-37-5)	NE	NE	NE
Solvents & Propellants: 99.9%			
Petroleum Solvent: (CAS #64742-47-8)	NE	NE	500ppm
Carbon Dioxide: (CAS #124-38-9)	5000ppm	30000ppm	5000ppm

All components of this product are listed or excluded from listing on the US Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

SECTION 2: PHYSICAL DATA

Specific Gravity (H ₂ O = 1): ~0.79	Solubility in Water: Not miscible.
Vapor Pressure in Aerosol Can: 100	pH: NA
Percent Volatile: ~99.9%	Appearance and Odor: Sprays as a coarse, clear spray with low odor.
Density: ~0.79g/ml @ 20°C	
Evaporation Rate: < 1 (n-Bu Ac = 100)	

SECTION 3: FIRE AND EXPLOSION HAZARD DATA

Flashpoint: 198°F (TCC)
Flammable Limits: NE
NFPA 308 Flammability: Level 3 Aerosol
Extinguishing Media: CO₂; Dry Chemical; Foam
Special Firefighting Procedures: None required.
Unusual Fire and Explosion Hazards: Contents under pressure. Exposure to temperatures above 130°F may cause bursting.

SECTION 4: HEALTH HAZARD DATA

Threshold Limit Value: NE
Routes of Entry:

Inhalation?	Skin?	Ingestion?
Secondary	Primary	Tertiary

Health Hazard (Acute and Chronic) - Signs and Symptoms of Exposure:

Eye: Product may produce eye irritation. Avoid contact with eyes.

Skin: Prolonged exposure may cause skin irritation. Does not appear to be a dermal sensitizer to guinea pigs. Acute Dermal LD₅₀ > 2,000mg/kg (rabbits). Primary Irritation index = 0.33 (rabbits).

Ingestion & Inhalation: Unlikely due to the product being pressurized and producing particles large enough not to be respirable. Acute Oral Toxicity - LD₅₀ > 5,000mg/kg.; Acute Inhalation Toxicity - LC₅₀ > 6.53 mg/l.

Carcinogenicity:

NTP?	IARC Monograph?	OSHA Regulated?
No	No	No

Emergency and First Aid Procedures:

If Swallowed: Call a doctor or get medical attention. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Avoid alcohol.

If Inhaled: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

If on Skin: Wash with plenty of soap and water. Get medical attention if irritation persists.

If in Eyes: Flush eyes with plenty of water. Call a physician if irritation persists.

Note to Physician: No specific antidote is available. Treat the patient symptomatically.

Medical Conditions Generally Aggravated by Exposure: None known.

SECTION 5: REACTIVITY DATA

Stability: Indefinite when used according to label directions.

Conditions to Avoid: Do not spray into open flame or onto very hot surfaces.

Incompatibility (Materials to Avoid): May react with strong acids or strong oxidizing agents.

Hazardous Decomposition Products: Thermal decomposition in open flame will result in carbon dioxide and carbon monoxide.

Hazardous Polymerization: Will not occur.

SECTION 6: SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled: If container begins to leak (through puncture, etc.), allow to discharge completely in well ventilated area, then dispose in safe place. In case of spillage on skin, wash thoroughly with soap and water.

Emergency Telephone Number of Chemtrec: (800) 424-9300

(for transportation spills)

Waste Disposal Method: *Pesticide Disposal:* Wastes resulting from use of this product may be disposed of on site or at an approved waste disposal facility. Do not contaminate water, food or feed by disposal. *Container Disposal:* This container may be recycled in aerosol recycling centers. At present, there are only a few such centers in the country. Before offering for recycling, empty the can by using the product according to the label (DO NOT PUNCTURE!). If recycling is not available, replace cap and discard container in trash, sanitary landfill or by other approved state and local procedures. Do not incinerate or puncture.

In case of spillage this product is subject to reporting requirements of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA).

SECTION 7: SPECIAL PROTECTION INFORMATION

Respiratory Protection: None required if used according to label directions. Avoid breathing spray mist. If exposure guidelines are exceeded, use an approved air purifying respirator.

Ventilation:

Local Exhaust: None required. Mechanical: Provide adequate ventilation of treatment area.

Special: None required. Other: None required.

Protective Gloves: None required - avoid contact with skin.

Eye Protection: None required - avoid contact with eyes.

Other Protective Equipment: None required.

SECTION 8: SPECIAL PRECAUTIONS

Precautions to be taken in handling and storage: Keep out of reach of children. *Hazards to Humans and Domestic Animals:* CAUTION - Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling. *Environmental Hazards:* This product is toxic to fish, birds and other wildlife. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters. Apply this product only as specified on the label. Spray will damage plant foliage. *Physical or Chemical Hazards:* Flammable. Contents under pressure. Keep away from heat, sparks and open flame. Do not puncture or incinerate container. Do not use or store near heat or open flame. Exposure to temperatures above 130°F may cause bursting. Do not spray on plastic, painted or varnished surfaces. Do not spray directly into any electronic equipment such as radios, televisions, computers, etc. **Storage:** Store in a cool dry area away from heat or open flame and inaccessible to children. Do not contaminate water, food or feed by disposal.

SECTION 9: HEALTH RATING INFORMATION (NFPA)

Health - 1 Flammability - 2 Reactivity - 1

SECTION 10: SARA TITLE III/SEC. 313 SUPPLIER NOTIFICATION

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and of 40 CFR 372:

CAS#	Chemical Name	% by weight
This product contains no Section 313 chemicals exceeding the de minimis concentration levels.		

SECTION 11: DOT SHIPPING INFORMATION

Proper Shipping Name: Consumer Commodity

Hazard Class: ORM-D

NA - Not Applicable
NE - Not Established
PEL - Permissible Exposure Limit
ACL - Acceptable Ceiling Level
MPC - Maximum Peak Concentration

Product Code: 02-0198
Prepared by: Dana M. Thomas



WHITMIRE MICRO-GEN
RESEARCH LABORATORIES, INC.

MATERIAL SAFETY DATA SHEET

DRAGNET® SFR TERMITICIDE/INSECTICIDE

FMC

MSDS Ref. No: 52645-53-1-26

Version: Global

Date Approved: 08/13/1998

Revision No: 1

This document has been prepared to meet the requirements of the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200; the EC directive, 91/155/EEC and other regulatory requirements. The information contained herein is for the concentrate as packaged, unless otherwise noted.

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: DRAGNET® SFR TERMITICIDE/INSECTICIDE**PRODUCT CODE:** 1784**ACTIVE INGREDIENT:** Permethrin**CHEMICAL FAMILY:** Pyrethroid Pesticide**MOLECULAR FORMULA:** C₂₁H₂₀Cl₂O₃ (permethrin)**SYNONYMS:** FMC 33297; (3-Phenoxyphenyl)methyl(+/-) cis-trans-3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate; IUPAC: 3-phenoxybenzyl (1RS)-cis-trans-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate

MANUFACTURER

FMC CORPORATION
Agricultural Products Group
1735 Market Street
Philadelphia, PA 19103 USA
General Information: 800-321-1362

Emergency Telephone Numbers:

Emergency Phone (FMC) 800-331-3148
(U.S.A. & Canada)
Emergency Phone (FMC) 716-735-3765
(Reverse Charges)
CHEMTREC (800) 424-9300 (U.S.A. & Canada)
(202) 483-7616 (All other countries)

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>CAS #</u>	<u>Wt.%</u>	<u>PEL/TLV</u>	<u>EC No.</u>	<u>EC Class</u>
Permethrin	52645-53-1	36.8	None	613-058-00-2	R22
Alkyl biphenyl mixture	69009-90-1	<27	None	None	None
Aromatic Hydrocarbons	64742-47-8	<14.1	None	None	None
Surfactant Blend	0000-00-0	<7.6	None	None	None

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

IMMEDIATE CONCERNS:

- Amber liquid with a faint, mild petroleum odor.
- Moderately combustible. May support combustion if heated above the product's flash point (see 'Fire Fighting Measures' in Section 5).
- Thermal decomposition and burning may form toxic by-products.
- For large exposures or fire, wear personal protective equipment.
- Highly toxic to fish and aquatic organisms. Keep out of drains and water courses.
- Moderately irritating to the skin.

POTENTIAL HEALTH EFFECTS: Effects from overexposure result from either swallowing, or coming into contact with the skin or eyes. Symptoms of overexposure include increased hypersensitivity to touch and sound, tremors and convulsions. Contact with this product has rarely produced skin sensations such as numbing, burning and tingling. These sensations are reversible and usually subside within 12 hours.

MEDICAL CONDITIONS AGGRAVATED: None presently known.

4. FIRST AID MEASURES

EYES: Flush with water for at least 15 minutes. If irritation occurs and persists, obtain medical attention.

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

INGESTION: Rinse mouth with water. Dilute by giving 1 or 2 glasses of water. Do

not induce vomiting. Never give anything by mouth to an unconscious person. See a medical doctor immediately.

INHALATION: Remove to fresh air. If breathing difficulty or discomfort occurs and persists, obtain medical attention.

NOTES TO MEDICAL DOCTOR: This product has low oral, dermal and inhalation toxicity. It is moderately irritating to the skin and minimally irritating to the eyes. Reversible skin sensations (paresthesia) may occur and ordinary skin salves have been found useful in reducing discomfort. Contains aromatic hydrocarbons that can produce a severe pneumonitis if aspirated during vomiting. Consideration should be given to gastric lavage with an endotracheal tube in place. Treatment is otherwise controlled removal of exposure followed by symptomatic and supportive care.

5. FIRE FIGHTING MEASURES

FLASH POINT AND METHOD: 66 - 68°C (151 - 154°F) (TAG)

EXTINGUISHING MEDIA: Foam, CO₂ or dry chemical. Soft stream water fog only if necessary. Contain all runoff.

EXPLOSION HAZARDS: Moderately combustible. When heated above the flash point, this material releases vapors which, when mixed with air, can burn or be explosive.

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.

HAZARDOUS DECOMPOSITION PRODUCTS: Chlorine, hydrogen chloride, carbon dioxide, carbon monoxide, and aldehydes.

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 lakes, streams, ponds and sewer drains. Dike to confine spill and absorb 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 spill area, tools and equipment, wash with a suitable solution (i.e., bleach or caustic/soda ash and either ethylene glycol or an appropriate alcohol, i.e., methanol, ethanol or isopropanol). Follow this by washing with a strong soap and water

solution. Absorb as above, any excess liquid and add to the drums of waste already collected. Repeat if necessary. Dispose of drummed waste according to the method outlined in Section 13, "Disposal Considerations".

7. HANDLING AND STORAGE

GENERAL PROCEDURES: 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. Store at temperatures above 40°F (5°C). If crystals form, warm to room temperature 70°F (21°C) by room heating only for 24-48 hours, and shake occasionally until crystals dissolve and product appears uniform. Do not use external source of heat for warming container. Keep out of reach of children and animals. Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Use local exhaust at all process locations where vapor or mist may be emitted. Ventilate all transport vehicles prior to unloading.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: For splash, mist or spray exposure, wear chemical protective goggles or a face shield.

RESPIRATORY: For splash, mist or spray exposure 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).

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

GLOVES:

Wear chemical protective gloves made of materials such as nitrile, neoprene or Viton® brand. Thoroughly wash the outside of gloves with soap and water prior to removal. Inspect regularly for leaks.

COMMENTS: Personal protective recommendations for mixing or applying this product are prescribed on the product label. Information stated above provides useful, additional guidance for individuals whose use or handling of this product is not guided by the product label.

9. PHYSICAL AND CHEMICAL PROPERTIES

ODOR: Faint, mild petroleum

APPEARANCE: Amber liquid

pH: 4.0 @ 20°C (5% in water)

SOLUBILITY IN WATER: Emulsifies

SPECIFIC GRAVITY: 1.033 @ 20°C (water = 1)

MOLECULAR WEIGHT: 391.3 (permethrin)

WEIGHT PER VOLUME: 8.61 lb/gal. (1033 g/L)

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Excessive heat and fire.

STABILITY: Stable

POLYMERIZATION: Will not occur

11. TOXICOLOGICAL INFORMATION

DERMAL LD₅₀: >2000 mg/kg (rabbit)

ORAL LD₅₀: 998 mg/kg (rat)

INHALATION LC₅₀: >4.3 mg/L/4 hr (rat)

ACUTE EFFECTS FROM OVEREXPOSURE: This product has low oral, dermal and inhalation toxicity. It is moderately irritating to the skin and minimally irritating to the eyes. Experience to date indicates that contact with this product has rarely produced skin sensations such as numbing, burning or tingling. These sensations are

reversible and usually subside within 12 hours. Large toxic doses of the formulated product, administered to laboratory animals, have produced central nervous system effects with symptoms that include hypersensitivity to touch and sound, tremors, and clonic convulsions. Overexposure to animals via inhalation has also produced symptoms such as squinting eyes, irregular and rattling breathing, and ataxia. Inhalation of aromatic hydrocarbon vapors may cause dizziness, disturbances in vision, drowsiness, respiratory irritation, and eye, skin and mucous membrane irritation. Vomiting after ingestion of this product may cause aspiration of aromatic hydrocarbons into the lungs which may result in fatal pulmonary edema.

CHRONIC EFFECTS FROM OVEREXPOSURE: No data available for the formulation. In studies with laboratory animals, permethrin did not cause reproductive toxicity or teratogenicity. Analysis of chronic feeding studies in both mice and rats with permethrin resulted in the conclusion that permethrin's potential for induction of oncogenicity in experimental animals is low and that the likelihood of oncogenic effects in humans is nonexistent or extremely low. Long-term feeding studies in animals resulted in increased liver and kidney weights, induction of the liver microsomal drug metabolizing enzyme system and histopathological changes in the lungs and liver. An overall absence of genotoxicity has been demonstrated in mutagenicity testing with permethrin. Chronic exposure to aromatic hydrocarbons may cause headaches, dizziness, loss of sensations or feelings (such as numbness), and liver and kidney damage.

CARCINOGENICITY:

IARC: Not listed

NTP: Not listed

OSHA: Not listed

OTHER: (ACGIH) Not listed

12. ECOLOGICAL INFORMATION

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

ENVIRONMENTAL DATA: In soil, permethrin is stable over a wide range of pH values. When applied at agricultural use rates, permethrin has a moderate rate of degradation in soil. At termiticidal use rates, permethrin degrades at a slower rate which is governed by soil characteristics. Due to its high affinity for organic matter ($K_{oc} = 86,000$), there is little potential for movement in soil or entry into ground water. Permethrin has a Log Pow of 6.1, but a low potential to bioconcentrate ($BCF = 500$) due to the ease with which it is metabolized.

ECOTOXICOLOGICAL INFORMATION: Permethrin is highly toxic to fish ($LC_{50} = 0.5 \mu\text{g/L}$ to $315 \mu\text{g/L}$) and aquatic arthropods ($LC_{50} = 0.02 \mu\text{g/L}$ to $7.6 \mu\text{g/L}$).

Marine species are often more sensitive than the freshwater species. Bacteria, algae, mollusks and amphibians are much more tolerant of permethrin than the fish and arthropods. Care should be taken to avoid contamination of the aquatic environment. Permethrin is slightly toxic to birds and oral LD50 values are greater than 3600 mg/kg. Longer dietary studies showed that concentrations of up to 500 ppm in the diet had no effect on bird reproduction.

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 which 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.

14. TRANSPORT INFORMATION

U.S. DOT (DEPARTMENT OF TRANSPORTATION)

REPORTABLE QUANTITY (RQ): None

U.S. SURFACE FREIGHT CLASS: Insecticides, NOI, other than Poison. NMFC Item 102120.

MARINE POLLUTANT #1: permethrin (Severe Marine Pollutant)

OTHER SHIPPING INFORMATION:

This material is not regulated in transportation when shipped via highway, railroad or air. For these modes, describe the material as:
Insecticides, NOI, other than Poison. NMFC Item 102120.

For shipment via ocean vessel, describe the material as:
Environmentally hazardous substance, liquid, n.o.s. (permethrin 36.8%), 9, UN3082, III. NAERG Guide 171.

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

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

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. 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: (permethrin)

SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355): Not listed

CERCLA (COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT)

CERCLA REGULATORY (40 CFR 302.4): Not listed

COMMENTS: Australian Hazard Code : 3XE

U.S. EPA Signal Word : CAUTION

16. OTHER INFORMATION

Viton - E.I. du Pont de Nemours and Co. Trademark;
Dagnet and FMC Logo - FMC Trademark

Section(s) Revised : New Format



PROFESSIONAL INSECT CONTROL® ANT BAIT STATIONS



Material Safety Data Sheet

I Product: MAXFORCE® FC Professional Insect Control® Ant Bait Stations								
Description: FIPRONIL BASED FOOD BAIT IN A CHILD-RESISTANT PLASTIC STATION								
Other Designations:	Manufacturer	Emergency Telephone Number						
EPA REG NO: 64248-10	Maxforce Insect Control Systems 1221 Broadway Oakland, CA 94612 (510) 271-7000	For Medical Emergencies, call Rocky Mountain Poison Center: 1-800-446-1014 For Transportation Emergencies, call Chemtrec: 1-800-424-9300						
II Health Hazard Data		III Hazardous Ingredients						
<p>MAXFORCE® FC Professional Insect Control™ Ant Bait Stations may be minimally irritating to skin following prolonged direct contact. It is not acutely toxic upon oral or dermal exposure.</p> <p>Untoward effects resulting from over-exposure are not anticipated to occur. The formulation is packaged in a child-resistant container.</p> <p>No known health conditions are aggravated by exposure to this product.</p> <p>Bait wt. per station: 1.5 grams</p>		<table border="1"> <thead> <tr> <th>ingredient</th> <th>Concentration</th> <th>Worker Exposure Limit</th> </tr> </thead> <tbody> <tr> <td>Fipronil CAS #120068-37-3</td> <td>0.01% (w/w)</td> <td>*0.1 mg/m³ *0.032 mg/m³</td> </tr> </tbody> </table> <p>None of the ingredients in this product is on the IARC, OSHA or NTP carcinogen list.</p> <p>Rhone-Poulenc TWA for: *3 month "on", 9 month "off" exposure *12 month daily exposure</p>	ingredient	Concentration	Worker Exposure Limit	Fipronil CAS #120068-37-3	0.01% (w/w)	*0.1 mg/m ³ *0.032 mg/m ³
ingredient	Concentration	Worker Exposure Limit						
Fipronil CAS #120068-37-3	0.01% (w/w)	*0.1 mg/m ³ *0.032 mg/m ³						
IV Special Protection and Precautions		V Transportation and Regulatory Data						
<p>None.</p> <p>Keep Out of Reach of Children and Pets.</p>		<p>U.S. DOT Hazard Class: Not restricted</p> <p>U.S. DOT Proper Shipping Name: Insecticide, non-toxic, solid. Not restricted.</p> <p>EPA CERCLA/SARA TITLE III: This product contains no CERCLA/SARA Title III materials.</p>						
VI Spill Procedures/Waste Disposal		VII Reactivity Data						
<p>Non-hazardous waste. Sweep up spilled material. Place in a container for disposal. Dispose in accordance with Local, State, and Federal regulations.</p>		<p>Stable under normal use and storage conditions.</p>						
VIII Fire and Explosion Data		IX Physical Data						
<p>Not flammable or Explosive. Flash Point: >200°F (TCC) Fire Extinguishing Media: Water, Foam CO₂ or dry chemical.</p>		<p>Specific gravity: 1.27 g/cc Melting Point: 60° C</p>						



PROFESSIONAL INSECT CONTROL' ROACH KILLER BAIT GEL

**Material Safety
Data Sheet**

I Product: MAXFORCE® FC PROFESSIONAL INSECT CONTROL ROACH KILLER BAIT GEL								
Description: THICK LIGHT TO DARK BROWN GEL, SWEET ODOR								
Other Designations:	Manufacturer	Emergency Telephone Number						
EPA REG NO.: 64248-14	Maxforce Insect Control Systems 1221 Broadway Oakland, CA 94612	Notify your Supervisor Rocky Mountain Poison Center (800) 446-1014 For Transportation Emergencies Chemtrec (800) 424-9300						
II Health Hazard Data		III Hazardous Ingredients						
<p>Maxforce® FC Professional Insect Control Roach Killer Bait Gel may be moderately irritating to the eyes and skin following prolonged direct contact. It is not acutely toxic upon oral or dermal exposure. Untoward effects resulting from over-exposure are not anticipated to occur from use of the bait gel. Follow the precautions outlined below.</p> <p>Practical Treatment: If swallowed, drink two glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person. Get medical attention.</p> <p>No known health conditions are aggravated by exposure to this product.</p>		<table border="1"> <thead> <tr> <th>Ingredient</th> <th>Concentration</th> <th>Worker Exposure Limit</th> </tr> </thead> <tbody> <tr> <td>Fipronil</td> <td>0.01%</td> <td>none developed</td> </tr> </tbody> </table> <p>CAS Reg. No. 120068-37-3</p> <p>None of the ingredients in this product is on the IARC, OSHA or NTP carcinogen lists.</p>	Ingredient	Concentration	Worker Exposure Limit	Fipronil	0.01%	none developed
Ingredient	Concentration	Worker Exposure Limit						
Fipronil	0.01%	none developed						
IV Special Protection and Precautions		V Transportation and Regulatory Data						
<p>Hygienic Practices: Avoid contact with skin and clothing. Wash skin with soap and water if contact. Remove contaminated clothing and launder before re-wearing.</p> <p>Engineering Controls: Use general ventilation to minimize exposure.</p> <p>KEEP OUT OF THE REACH OF CHILDREN.</p>		<p>U.S. DOT Hazard Class: Not restricted</p> <p>U.S. DOT Proper Shipping Name: Insecticide, non-toxic, solid - not restricted</p> <p>EPA CERCLA/SARA TITLE III: This product contains no CERCLA/SARA Title III Materials.</p>						
VI Spill Procedures/Waste Disposal		VII Reactivity Data						
<p>Non-hazardous waste.</p> <p>Wrap in several layers of newspaper and discard in trash.</p> <p>Dispose in accordance with Local, State and Federal regulations.</p>		<p>Stable under normal use and storage conditions.</p> <p>Product will stain porous surfaces</p>						
VIII Fire and Explosion Data		IX Physical Data						
<p>Not flammable or explosive</p>		<p>Appearance: Thick light to dark brown gel</p> <p>pH: not applicable</p>						

Premise 75

Specimen Label

Premise® 75

Insecticide In Water Soluble Packets

Only for sale to, use and storage by professional pest control operators. For prevention or control of subterranean termites. Do Not Remove Packets From Container Except For Immediate Use. Keep water soluble packets in this container and store in a cool dry place but not below freezing (32°F).

ACTIVE INGREDIENT: Imidacloprid, 1-[(6-Chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine 75.0%
INERT INGREDIENTS 25.0%
100.0%

EPA Reg. No. 3125-455

Four 2.25-ounce water soluble packets per envelope; four envelopes per case

Stop - Read The Label Before Use
KEEP OUT OF REACH OF CHILDREN

CAUTION

PRECAUCION AL USUARIO: Si usted no puede leer o entender inglés, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

(TO THE USER: If you cannot read or understand English, do not use this product until the label has been fully explained to you.)

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed, inhaled, or absorbed through skin. Causes eye irritation. Avoid contact with skin, eyes, or clothing. Avoid breathing dust or vapor. Wash thoroughly with

soap and water after handling. Remove contaminated clothing and wash before reuse. Keep children or pets away from treated area until dry.

STATEMENTS OF PRACTICAL TREATMENT

If swallowed: Call a physician or Poison Control Center. Drink one or two glasses of water and induce vomiting by touching back of throat with finger, or, if available, by administering syrup of ipecac. Administer 1 tablespoonful (15 mL) of syrup of ipecac followed by 1 to 2 glasses of water. If vomiting does not occur within 20 minutes, repeat the dose once. Do not induce

vomiting or give anything by mouth to an unconscious person. If on skin: Wash thoroughly with soap and water. Get medical attention if irritation occurs. If in eyes: Hold eyelids open and flush with plenty of water.

To Physician: No specific antidote is available. Treat the patient symptomatically.

ENVIRONMENTAL HAZARDS

This product is highly toxic to aquatic invertebrates. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters. Apply this product only

as specified on this label. Extreme care must be taken to avoid runoff. Apply only to soil or other fill substrate that will accept the solution at the specified rate. For example, do not treat water-saturated or frozen soil which will accept little or no solution.

WARRANTY

WARRANTY DISCLAIMER: BAYER WARRANTS THAT THIS PRODUCT CONFORMS TO THE CHEMICAL DESCRIPTION ON THE LABEL AND IS REASONABLY FIT FOR THE PURPOSE STATED ON THE LABEL WHEN USED IN STRICT ACCORDANCE WITH THE DIRECTIONS, SUBJECT TO THE CONDITIONS FOR SALE SET FORTH BELOW. BAYER MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

CONDITIONS OF SALE: THE DIRECTIONS ON THIS LABEL WERE DETERMINED THROUGH RESEARCH TO BE APPROPRIATE FOR THE CORRECT USE OF THIS PRODUCT. THIS PRODUCT HAS BEEN TESTED UNDER DIFFERENT ENVIRONMENTAL CONDITIONS BOTH

INDOORS AND OUTDOORS UNDER CONDITIONS SIMILAR TO THOSE THAT ARE ORDINARY AND CUSTOMARY WHERE THE PRODUCT IS TO BE USED. INSUFFICIENT CONTROL OF PESTS MAY RESULT FROM THE OCCURRENCE OF EXTRAORDINARY OR UNUSUAL CONDITIONS, OR FROM FAILURE TO FOLLOW LABEL DIRECTIONS. IN ADDITION, FAILURE TO FOLLOW LABEL DIRECTIONS MAY CAUSE INJURY TO ANIMALS, MAN, AND DAMAGE TO THE ENVIRONMENT. BAYER OFFERS, AND THE BUYER ACCEPTS AND USES, THIS PRODUCT SUBJECT TO THE CONDITIONS THAT EXTRAORDINARY OR UNUSUAL ENVIRONMENTAL CONDITIONS, OR FAILURE TO FOLLOW LABEL DIRECTIONS ARE BEYOND THE CONTROL OF BAYER AND ARE, THEREFORE, THE RESPONSIBILITY OF THE BUYER.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not treat soil beneath structures that contain cisterns or wells. Consult state and local specifications for recommended distances of wells from treated area, or if such regulations do not exist, refer to Federal Housing Administration Specifications (H.U.D.) for guidance.

IMPORTANT: Read these entire DIRECTIONS FOR USE, before using PREMISE 75 Insecticide.

Do not formulate this product into other end-use products.

MIXING TABLE FOR PREMISE 75 Insecticide		
GALLONS OF FINISHED SOLUTION DESIRED	NUMBER OF PREMISE 75 PACKETS NEEDED	
	0.05% Concentrate	0.1% Concentrate
25	1	2
50	2	4
100	4	8

MIXING: Within each foil envelope is a clear inner packet containing PREMISE 75 Insecticide. The clear inner packet is water soluble. Do not allow packets to become wet prior to adding to the spray tank. Do not handle the clear inner packets with wet hands or wet gloves. Rough handling may cause breakage. Reseal foil envelope to protect remaining packets.

To prepare the spray mixture, remove the foil envelope and

drop the required number of unopened clear water soluble packets into the spray tank while filling with water to the desired level. Operate the agitator while mixing. Depending on the water temperature and the degree of agitation, the packets should be completely dissolved within a few minutes from the time they are added to the water. Cooler water temperatures increase the time needed for the inner packet to dissolve completely.

CONTROL - GENERAL

Treatment standards for subterranean termite control may vary due to regulations, treatment procedures, soil types, construction practices and other factors. The purpose of chemical soil treatment for termite control is to establish a continuous chemical barrier (horizontal and/or vertical as needed) between the wood and other cellulose material in the structure and the termite colonies in the soil. Follow all federal, state, and local regulations and treatment standards for protection of a structure from termites. In some instances where an aerial or above ground colony is established, supplemental treatments to control the termites, landscape

modifications, and/or structural repairs may be needed to deprive termites of a moisture source. All treatment directions contained in this label may not be necessary to provide adequate protection against termites. Use a 0.05% to 0.1% dilution based on local recommendations. Generally a 0.05% dilution is used for typical control situations. Where severe infestations occur, especially if *Coptotermes* (formosan termites) is the infesting species, 0.1% dilution may be necessary. Also, it may be necessary to use the 0.1% dilution for problem soils or construction types.

FOAM APPLICATIONS

Construction practices, soil subsidence and other factors may create situations in which a continuous chemical barrier cannot be achieved using conventional treatment alone. In situations where necessary, conventional application methods can be supplemented through use of foam generating equipment, or similar devices can be used to provide a continuous barrier. Treatment of filled porches, chimney bases, soil under slabs and treatment of masonry or other voids are examples of where application of a foam may be useful.

Foam application may be made alone or in combination with conventional application methods, provided that the labeled amount of active ingredient per unit area is used.

Foam Application Use Directions: Mix end-use dilution of PREMISE 75 with manufacturer's recommended volume of

foaming agent. Apply a sufficient volume of PREMISE 75 insecticide foam to provide a continuous barrier at the recommended rate for specific application sites. If sufficient foam volume cannot be applied to achieve recommended rates of PREMISE 75, apply additional PREMISE 75 as liquid to assure proper concentration in the treated area. Use appropriate dispersion tips and application method for site. For soil under slabs, apply the equivalent of 0.36 to 0.72 ounces of PREMISE 75 Insecticide per 10 linear feet. For dirt filled porches and chimney bases, apply the equivalent of 0.36 to 0.72 ounces of PREMISE 75 Insecticide per 10 linear feet per foot of depth along containment walls. In addition, an overall surface application of the equivalent of 0.09 to 0.18 ounces per 10 square feet of PREMISE 75 Insecticide may be needed for large dirt filled porches and chimney bases. For voids, apply the equivalent of 0.18 to 0.36 ounces of PREMISE 75 Insecticide per 10 linear feet at or near footing.

CORRECTIVE TREATMENT

Corrective treatment for subterranean termites may be made when there is evidence of reinfestation subsequent to the initial treatment, or where there has been a disruption of the chemical barrier in the soil due to construction, excavations, landscaping, etc.

Corrective treatment may be made as either a spot or complete treatment. The timing of these treatments will vary,

depending on factors such as termite pressure, soil conditions, etc., which may reduce the effectiveness of the barrier.

Corrective treatment may be made to vulnerable areas in accordance with the application techniques described in this label. Routine or annual treatment of the entire structure should be unnecessary and thus avoided.

GENERAL PRECAUTIONS FOR APPLICATIONS

After treatment, plug and fill all holes drilled in concrete slab areas of the building with a suitable sealant.

Do not apply solution until location of heat pipes, ducts, water and sewer lines and electrical conduits are known and identified. Caution must be taken to avoid puncturing and injection into these structural elements.

Do not plant for the purpose of consumption, edible plants into the treated areas of soil.

Avoid contamination of public and private water supplies.

Use anti-backflow equipment on filling hoses.

Consult State, Federal, or local authorities for information

regarding the approved treatment practices for areas in close proximity to potable water supplies.

*APPLICATION VOLUME

It is recommended that application volumes described in the PREMISE 75 Insecticide "DIRECTIONS FOR USE" be used whenever possible. However, where soil conditions will not accept application of 4 gallons of PREMISE 75 Insecticide per 10 linear feet, twice the PREMISE concentration may be applied in 2 gallons of solution per 10 linear feet. For example, if 0.05% is the correct use rate to be applied in 4 gallons of water, then 2 gallons of 0.1% dilution may be used per 10 linear feet.

STORAGE AND DISPOSAL

Storage: Do not contaminate water, food, or feed by storage or disposal.

Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Do not store below freezing (32°F). Exposure to moisture or excessive handling of water soluble packets may cause breakage. Store water soluble packets in original container and out of reach of children, preferably in a locked storage area.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal: Do not use carton in connection with food, feed or drinking water. The empty foil wrappers may be disposed of in the trash. After removing all PVA packets, the carton may be disposed of in the trash.

Handle and open container carefully. Do not cut water soluble packets when opening. If container is leaking or

MONSANTO PRODUCT NAME ROUNDUP® HERBICIDE
--

MONSANTO COMPANY
800 N. LINDBERGH
ST. LOUIS, MO 63167
EMERGENCY PH. NO. (CALL COLLECT) (314) 694-4000
DATE PREPARED: November, 1992

PRODUCT IDENTIFICATION

EPA Registration Number:	524-445
Synonyms:	None
Chemical Name:	Not Applicable, Formulated Product
Active Ingredient:	*Glyphosate, N-(phosphonomethyl) glycine, in the form of its isopropylamine salt 41.0%
Inert Ingredients: 59.0%
 100.0%

*Contains 480 grams per liter or 4 pounds per gallon of the active ingredient glyphosate in the form of its isopropylamine salt. Equivalent to 356 grams per liter or 3 pounds per U.S. gallon of the acid, glyphosate.

CAS Reg. No.:	Not Applicable, Formulated Product
CAS Reg. No. Active Ingredient:	1071-83-6
DOT Proper Shipping Name:	Not Applicable
DOT Hazard Class/I.D. No.:	Not Applicable
DOT Label:	Not Applicable
Reportable Quantity (RQ) Under CERCLA:	Not Applicable
U.S. Surface Freight Classification:	Weed killing compound, N.O.I.B.N.

SARA Hazard Notification

Hazard Categories Under Criteria of SARA Title III Rules (40 CFR Part 370): Immediate

Section 313 Toxic Chemical(s): Not Applicable

Hazardous Chemical(s) Under OSHA Hazard Communication Standard:

This product contains, as components, the substances listed below which are identified as hazardous chemicals under the criteria of the OSHA Hazard Communication Standard (29 CFR §1910.1200):

Ethoxylated Tallowamines, CAS Reg. No. 61791-26-2

WARNING STATEMENTS

Keep out of reach of children.

WARNING!

CAUSES SUBSTANTIAL BUT TEMPORARY EYE INJURY

HARMFUL IF INHALED

REFORMULATION IS PROHIBITED

SEE INDIVIDUAL CONTAINER LABEL FOR REPACKAGING LIMITATIONS

PRECAUTIONARY MEASURES

- Do not get in eyes or breathe spray mist or get in or on clothing.
- Wear goggles, face shield or safety glasses.
- Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.
- Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark.
- Do not contaminate water when disposing of equipment washwaters.

EMERGENCY AND FIRST AID PROCEDURES

FIRST AID:

- If In Eyes:** Hold eyelids open and flush with plenty of water. Get medical attention.
- If Swallowed:** Drink promptly a large quantity of milk, egg whites, or gelatin solution. If these are not available, drink large quantities of water. Get medical attention.
- If Inhaled:** Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.
- NOTE:** For additional human emergency first aid or treatment guidance, call collect, anytime, day or night (314) 694-4000.
-

OCCUPATIONAL CONTROL PROCEDURES

- Eye Protection:** Wear chemical splash goggles during mixing/pouring operations or other activities in which eye contact with undiluted ROUNDUP® herbicide is likely to occur.
- Skin Protection:** ROUNDUP® herbicide does not present significant skin concern requiring special protection.
- Respiratory Protection:** For Handling of the Undiluted Product: Undiluted ROUNDUP® herbicide is not likely to present an airborne exposure concern during normal handling. In the event of an accidental discharge of the material during manufacture or handling which produces a heavy vapor or mist, workers should put on respiratory protection equipment. Consult respirator manufacturer to determine appropriate type of equipment. Observe respirator use limitations specified by NIOSH/MSHA or the manufacturer.
- For Application of Product Diluted in accordance with label instructions: Respirators are not required for applications of use - dilutions of ROUNDUP® herbicide.
- Ventilation:** No special precautions are recommended.
- Airborne Exposure Limits:**
- | | |
|-----------------|---|
| Product: | ROUNDUP® herbicide - 100% by wt.: |
| | OSHA PEL: None established ACGIH TLV: None established |
| | Ethoxylated Tallowamine: |
| | OSHA PEL: None established ACGIH TLV: None established |
-

FIRE PROTECTION INFORMATION

- Flash Point:** >200°F **Method:** Pensky-Martens
- Extinguishing Media:** Water spray, foam, dry chemical, CO₂, or any class B extinguishing agent.
- Special Firefighting Procedures:** Firefighters or others who may be exposed to vapors, mists or products of combustion should wear a self-contained breathing apparatus. Equipment should be thoroughly cleaned after use.
- Unusual Fire and Explosion Hazards:** None
-

REACTIVITY DATA

- Stability:** Stable for at least 5 years under normal conditions of warehouse storage.
- Incompatibility:** Spray solutions of this product should be mixed, stored or applied using only stainless steel, aluminum, fiberglass, plastic or plastic-lined containers.
- DO NOT MIX, STORE OR APPLY THIS PRODUCT OR SPRAY SOLUTIONS OF THIS PRODUCT IN GALVANIZED OR UNLINED STEEL (EXCEPT STAINLESS STEEL) CONTAINERS OR SPRAY TANKS. This product or spray solutions of this product react with such containers and tanks to produce hydrogen gas which may form a highly combustible gas mixture. This gas mixture could flash or explode, causing serious personal injury, if ignited by open flame, spark, welder's torch, lighted cigarette or other ignition source.
- Hazardous Decomposition Products:** None
- Hazardous Polymerization:** Does not occur. This product can react with caustic (basic) materials to liberate heat. This is not a polymerization but rather a chemical neutralization in an acid base reaction.

HEALTH EFFECTS SUMMARY

The following information summarizes human experience and results of scientific investigations reviewed by health professionals for hazard evaluation of ROUNDUP® herbicide and development of Precautionary Statements and Occupational Control Procedures recommended in this document.

EFFECTS OF EXPOSURE

Skin contact and inhalation are expected to be the primary routes of occupational exposure to ROUNDUP® herbicide. Although limited occupational exposure to this material has not been reported to produce significant adverse health effects, ROUNDUP® herbicide is considered, on the basis of single exposure (acute) animal tests, to be slightly to moderately irritating to eyes. Ingestion of similar formulations has been reported to produce gastrointestinal discomfort with irritation of the mouth, nausea, vomiting and diarrhea. Oral ingestion of large quantities of one similar product has been reported to result in hypotension and lung edema.

TOXICOLOGICAL DATA

Data from laboratory studies conducted by Monsanto with ROUNDUP® herbicide are summarized below:

Single exposure (acute) studies indicate:

Oral -	Practically non-toxic, (Rat LD ₅₀ , >5,000 mg/Kg)
Dermal -	Practically non-toxic, (Rabbit LD ₅₀ , >5000 mg/Kg)
Inhalation -	Slightly toxic, (Rat 4-hr LC ₅₀ , - 2.6 mg/L)
Eye Irritation -	Slightly to moderately irritating, (Rabbit)
Skin Irritation -	Essentially non-irritating (Rabbit, 4 hr. exposure)

No skin allergy was observed in guinea pigs following repeated skin exposure.

COMPONENTS

Data from laboratory studies conducted by Monsanto and from the scientific literature on components of ROUNDUP® herbicide:

Isopropylamine Salt of Glyphosate

Data from studies with a formulation comprised of 62% isopropylamine salt of glyphosate (MON 0139) indicate the following:

In repeat dosing studies (6-month), dogs fed MON 0139 exhibited slight body weight changes. Following repeated skin exposure (3-week) to MON 0139, skin irritation was the primary effect in rabbits.

Additional toxicity information is available on glyphosate, the active herbicidal ingredient of MON 0139. Following repeated exposures (90-days) to glyphosate in their feed, decreased weight gains were noted at the highest test level in mice, while no treatment-related effects occurred in rats. Following repeated skin exposure (3 weeks) to glyphosate, slight skin irritation was the primary effect observed in rabbits. No skin allergy was observed in guinea pigs following repeated skin exposure. There was no evidence of effects on the nervous system, including delayed effects in chickens (repeat oral doses) or cholinesterase inhibition in rats (single oral doses). Reduced body weight gain and effects on liver tissues were observed with long-term (2-year) feeding of glyphosate to mice at high-dose levels. Reduced body weight gain and eye changes were observed at the high-dose level in one long-term (2 year) feeding study with rats, while no treatment-related effects occurred in a second study. ~~No adverse effects were observed in feeding studies with dogs.~~ Glyphosate did not produce tumors in any of these studies. **Based on the results from the chronic studies, EPA has classified glyphosate in category E (evidence of non-carcinogenicity for humans).** No birth defects were noted in rats and rabbits given glyphosate orally during pregnancy, even at amounts which produced adverse effects on the mothers. Glyphosate was fed continuously to rats at very high dose levels for 2 successive generations. Toxicity was reported in offspring from the high dose, a level which also produced adverse effects on the mothers. In a 3 generation study conducted at lower dose levels, no effects were seen on the ability of male or female rats to reproduce. Glyphosate has produced no genetic changes in a variety of standard tests using animals and animal or bacterial cells.

Ethoxylated Tallowamine

The surfactant component of ROUNDUP® herbicide is reported to cause irritation to the eyes and skin and may contribute to the irritation potential reported for this herbicide. Ingestion may produce gastrointestinal irritation, nausea, vomiting and diarrhea.

PHYSICAL DATA

Appearance:	clear, viscous amber-colored solution
Odor:	practically odorless to slight amine-like odor
pH:	4.7 (1% solution)
Specific Gravity:	1.17 (Water = 1)

Note: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

SPILL, LEAK & DISPOSAL INFORMATION

SPILL/LEAK:

Observe all protection and safety precautions when cleaning up spills -- see Occupational Control Procedures.

Liquid spills on floor or other impervious surfaces should be contained or diked, and should be absorbed with attapulgite, bentonite or other absorbent clays. Collect contaminated absorbent, place in plastic-lined metal drum and dispose of in accordance with instructions provided under DISPOSAL. Thoroughly scrub floor with a strong industrial type detergent solution and rinse with water.

Liquid spills that soak into the ground should be dug-up, placed in plastic-lined metal drums and disposed of in accordance with instructions provided under DISPOSAL.

Leaking containers should be separated from non-leakers and either the container or its contents transferred to a plastic-lined drum or other non-leaking container. Dispose of leaking container in accordance with instructions provided under DISPOSAL. Any recovered spilled liquid should be similarly collected and disposed of.

Do not contaminate water, foodstuffs, feed or seed by storage or disposal.

DISPOSAL:

Wastes resulting from the use of this product that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, state or local procedures.

Emptied container retains vapor and product residue. Observe all labeled safeguards until container is cleaned, reconditioned or destroyed. **DO NOT CUT OR WELD ON OR NEAR THIS CONTAINER.**

Metal Drums: Triple rinse container. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Metal Bulk: Triple rinse emptied bulk containers. Then offer for recycling or reconditioning or disposal in a manner approved by state and local authorities.

Plastic Drums and mini bulk: Do not reuse container. Return container per the Monsanto container return program. If not returned, triple rinse container, then puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed, by state and local authorities, by burning. If burned, stay out of smoke.

DATE: November, 1992

SUPERSEDES: February, 1992

MSDS NO.: S00012114
(previously M00007588)

FOR ADDITIONAL NON-EMERGENCY INFORMATION, CALL: 1-800-332-3111

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SUSPEND® SC INSECTICIDE

MATERIAL SAFETY DATA SHEET
PAGE 1 OF 2

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

AgrEvo Environmental Health
95 Chestnut Ridge Road
Montvale, NJ 07645

COMPANY CONTACT: Regulatory Dept.
TELEPHONE NUMBER: (800)438-5837

EMERGENCY TELEPHONE NUMBER: (800)471-0660

PRODUCT NAME: Suspend SC Insecticide
PRODUCT CODE: B360009
CHEMICAL FAMILY: Mixture
CHEMICAL FORMULA: Mixture
EPA REGISTRY NUMBER: 432-763
MSDS IDENTIFICATION CODE/NUMBER: B360009

Suspend is a registered trademark of AgrEvo Environmental Health, Inc.

2. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT: Deltamethrin
CAS NUMBER: 52918-63-5
CONCENTRATION PERCENT BY WEIGHT: = 4.75
EXPOSURE LIMITS: None established

INGREDIENT: Inert ingredients
PERCENT BY WEIGHT: = 95.25
EXPOSURE LIMITS: None established

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

A white, odorless liquid that:

- Is harmful if inhaled.
- May result in transient tingling and reddening of the skin upon contact.
- Is extremely toxic to fresh water and estuarine fish and invertebrates.

POTENTIAL HEALTH EFFECTS

PRIMARY ROUTE(S) OF ENTRY

Inhalation

EYES

May cause slight irritation.

SKIN

Contact with product may result in transient tingling and reddening of the skin.

INHALATION

Harmful if inhaled.

SIGNS AND SYMPTOMS

Acute overexposure may result in respiratory irritation and transient paresthesia. Chronic overexposure produced pale kidneys and discoloration of the lungs in rats.

4. FIRST AID MEASURES

INHALATION

Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASH POINT: > 200 F > 93 C

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam, or Water.

FIRE FIGHTING INSTRUCTIONS

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH approved (or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Soak up with an absorbent material such as sand, sawdust, earth, fuller's earth, etc. Dispose of with chemical waste.

7. HANDLING AND STORAGE

HANDLING PRECAUTIONS

Avoid breathing vapor or spray mist.

STORAGE PRECAUTIONS

Do not store diluted material. Store in original container in secured dry storage area. Prevent cross-contamination with other pesticides and fertilizers.

WORK/HYGIENIC PRACTICES

Wash after handling. Remove contaminated clothing and wash before reuse.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE/FACE PROTECTION

Safety glasses or goggles.

SKIN PROTECTION

Impervious gloves.

OTHER/GENERAL PROTECTION

Long-sleeved shirt and pants to prevent skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

White liquid

ODOR

Odorless

BASIC PHYSICAL PROPERTIES

PHYSICAL STATE: Liquid
SPECIFIC GRAVITY: 1.05 @ 20°C
SOLUBILITY (H₂O): Suspends
pH: 6.6 in suspension

Revision Date

10. STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID (STABILITY)

Keep away from sources of ignition.

INCOMPATIBLE MATERIALS

Strong oxidizing and reducing agents.

HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition products might include carbon monoxide and carbon dioxide.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

EYE EFFECTS

Very slightly irritating (rabbit)

SKIN EFFECTS

Irritation (rabbit): Slightly irritating
Absorption (rabbit): LD50 > 10,000 mg/kg
Sensitization (guinea pig): Negative

ACUTE ORAL EFFECTS

LD50 (rat) > 15,000 mg/kg

ACUTE INHALATION EFFECTS

4-Hour LC50 (rat) > 1.02 mg/L
1-Hour equivalent LC50 > 4.08 mg/L (for DOT purposes)

CHRONIC (CANCER INFORMATION)

Deltamethrin technical is not carcinogenic based on animal studies.

CARCINOGENICITY: NTP: No IARC: No OSHA: No

TERATOGENICITY (BIRTH DEFECTS)

Deltamethrin is not considered to be teratogenic based on animal studies.

REPRODUCTIVE EFFECTS

Deltamethrin is not considered to be a reproductive toxin based on animal studies.

12. ECOLOGICAL INFORMATION

OTHER ENVIRONMENTAL INFORMATION

This product is extremely toxic to fresh water and estuarine fish and invertebrates. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Use with care when applying in areas adjacent to any body of water. Do not contaminate water when disposing of equipment washwater.

13. DISPOSAL CONSIDERATIONS

Pesticide Disposal: Wastes resulting from use of this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal Less than One Gallon: Securely wrap container in several layers of newspaper and discard in trash.

Container Disposal for Non-Refillable Container: Triple rinse (or equivalent) then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Container Disposal for Refillable Containers: Replace the dry disconnect cap if applicable, and seal all openings which have been opened during use. Return empty container to a collection site designated by AgrEvo Environmental Health. If container has been damaged and cannot be returned according to the recommended procedures, contact AgrEvo Health Environmental Customer Service Center at (800) 843-1702 to obtain proper handling instructions.

14. TRANSPORT INFORMATION

PROPER SHIPPING NAME: Not DOT Regulated

15. REGULATORY INFORMATION

U.S. FEDERAL REGULATORY INFORMATION

California - There are no ingredients in this product listed on Prop. 65

16. OTHER INFORMATION

HMIS HAZARD RATING

- HEALTH:	1 Slight
- FIRE:	1 Slight
- REACTIVITY:	0 Negligible
- PROTECTION:	B

NFPA HAZARD RATING

- HEALTH:	1 Slight
- FIRE:	1 Slight
- REACTIVITY:	0 Negligible
- SPECIAL:	-

MSDS IDENTIFICATION CODE/NUMBER: B360009

PREPARED BY: Regulatory Department
PHONE: (800)438-5837

DATE AND TIME OF PRINTING: 09/21/98 10:43:09

DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES

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



MATERIAL SAFETY DATA SHEET

BAYER CORPORATION
AGRICULTURE DIVISION
P.O. Box 4913 Hawthorn Road
Kansas City, MO 64120-001

TRANSPORTATION EMERGENCY:
CALL CHEMTREC: (800) 424-9300
DISTRICT OF COLUMBIA: (202) 483-7616

NON-TRANSPORTATION:
BAYER EMERGENCY PHONE: (800) 414-0244
BAYER INFORMATION PHONE: (800) 842-8020

1. CHEMICAL PRODUCT IDENTIFICATION:

PRODUCT NAME: TEMPO 20% Wettable Powder
PRODUCT CODE: 21642
CHEMICAL FAMILY: Pyrethroid Insecticide
CHEMICAL NAME: Cyano(4-fluoro-3-phenoxyphenyl)methyl 3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate
SYNONYMS: Cyfluthrin
FORMULA: C22 H18 Cl2, F N O3

2. COMPOSITION/INFORMATION ON INGREDIENTS:

INGREDIENT NAME	EXPOSURE LIMITS	CONCENTRATION (%)
***** HAZARDOUS INGREDIENTS *****		
TEMPO (cyfluthrin)		20 %
68359-37-5	OSHA : Not Established ACGIH: Not Established	
Ingredient 1968		1-5 %
Specific chemical identity is withheld as a trade secret.		
	OSHA : Not Established ACGIH: Not Established	
Total crystalline silica (quartz)		<1 - 7 %
14808-60-7	OSHA : .10 mg/m3 TWA (respirable) ACGIH: .10 mg/m3 TWA (respirable)	

3. HAZARDS IDENTIFICATION:

EMERGENCY OVERVIEW CAUTION!

Color: Tan **Form:** Solid; Powder **Odor:** Slightly aromatic
Harmful if inhaled; Harmful if absorbed through skin; Causes eye irritation;
Harmful if swallowed.

POTENTIAL HEALTH EFFECTS:

ROUTE(S) OF ENTRY: Inhalation; Skin Contact; Skin Absorption; Eye Contact

HUMAN EFFECTS AND SYMPTOMS OF OVEREXPOSURE:

ACUTE EFFECTS OF EXPOSURE: Mild eye or skin irritation may occur from contact with the powder or spray mixture. Paresthesia (a tingling or burning sensation on the surface of the skin) may also result from skin contact. This is a frequently reported symptom associated with sufficient dermal exposure to alpha-cyano (Type II) synthetic pyrethroids and normally subsides without treatment within 24 hours. The onset of these symptoms usually occurs 2-12 hours after exposure. Mucous membrane irritation involving the nose, throat and upper respiratory tract may occur from inhalation of aerosols during end use of the product such as during a spray application.

HAZARDS IDENTIFICATION continued:

CHRONIC EFFECTS OF EXPOSURE: Based on animal studies, no adverse effects or symptoms would be expected from chronic exposure to the active ingredient in this product during normal use. This product may contain an amount of total crystalline silica which ranges from less than 1% to approximately 7%. However, the amount of respirable crystalline silica is expected to be significantly lower based on data provided by the raw material manufacturer. Excessive long-term exposure to respirable crystalline silica may cause silicosis, a form of progressive pulmonary fibrosis. Severe and permanent lung damage may result.

CARCINOGENICITY: This product is not listed as a carcinogen by NTP or IARC, or regulated as a carcinogen by OSHA. However, it may contain crystalline silica (quartz), a substance which is classified by NTP as a Group 2 carcinogen and by IARC as a Group 1 carcinogen. Crystalline silica is a naturally-occurring mineral component of many sands and clays. Although controversial, the carcinogenic potential of crystalline silica must be considered if it is inhaled under excessive exposure conditions. However, the respirable portion of the silica which may be contained in this product is small, such that excessive inhalation exposure during normal conditions of use is unlikely.

NTP: Crystalline silica is classified as an NTP Anticipated Human Carcinogen - "Substances or groups of substances that may reasonably be anticipated to be carcinogens."

IARC: IARC has classified crystalline silica as a Group 1 carcinogen. "There is sufficient evidence in humans for the carcinogenicity of inhaled crystalline silica (quartz) from occupational sources."

OSHA: Not regulated

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: No specific medical conditions are known which may be aggravated by exposure to the active ingredient in this product. As with all materials which can cause upper respiratory tract irritation, persons with a history of asthma, emphysema, or hyperreactive airways disease may be more susceptible to a response at low concentration. In addition, pulmonary and respiratory diseases may be aggravated by exposure to respirable crystalline silica.

4. FIRST AID MEASURES:

FIRST AID FOR EYES: Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention.

FIRST AID FOR SKIN: Wash skin immediately with soap and warm water. Get medical attention if irritation persists.

FIRST AID FOR INHALATION: If a person is overcome by excessive exposures to dusts or aerosols of this material, remove to fresh air or uncontaminated area. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention as soon as possible.

FIRST AID FOR INGESTION: If ingestion is suspected, call a physician or poison control center. Drink one or two glasses of water and induce vomiting by touching back of throat with finger, or, if available, by administering syrup of ipecac. If syrup of ipecac is available, administer 1 tablespoonful (15 mL) of syrup of ipecac followed by 1 to 2 glasses of water. If vomiting does not occur within 20 minutes, repeat the dose once. Do not induce vomiting or give anything by mouth to an unconscious person.

MATERIAL SAFETY DATA SHEET

FIRST AID MEASURES continued:

NOTE TO PHYSICIAN: ANTIDOTE: No specific antidote is available. Treat victim symptomatically. Published data indicate vitamin E acetate can prevent and/or mitigate symptoms of paresthesia caused by synthetic pyrethroids. In case of overexposure, it is also requested that Bayer Corp., Agriculture Division, Kansas City, Missouri, be notified. Telephone: 1-800-414-0244

5. FIRE FIGHTING MEASURES:

FLASH POINT: Not Applicable
EXTINGUISHING MEDIA: Water; Dry Chemical
SPECIAL FIRE FIGHTING PROCEDURES: If involved in fire, wear self-contained breathing apparatus and stay up wind.

6. ACCIDENTAL RELEASE MEASURES:

SPILL OR LEAK PROCEDURES: Isolate area. Avoid breathing dusts and skin contact. Use recommended protective equipment while carefully sweeping up and place in covered container for re-use if possible. Scrub contaminated area with soap and water. Repeat and rinse with water. Prevent contamination of streams, sewers, or other waterways.

7. HANDLING AND STORAGE:

STORAGE TEMPERATURE(MIN/MAX): None/60 day average not to exceed 120 °F
SHELF LIFE: Time/temperature-dependent. Contact Bayer for specific information.
SPECIAL SENSITIVITY: Heat, moisture
HANDLING/STORAGE PRECAUTIONS: Store in a cool, dry area designated specifically for pesticides. Do not store near any material intended for use or consumption by humans or animals.

8. PERSONAL PROTECTION:

EYE PROTECTION REQUIREMENTS: Goggles should be used when needed to prevent dust or spray mixture from getting into the eyes.
SKIN PROTECTION REQUIREMENTS: Avoid skin contact. Use chemical-resistant gloves (such as nitrile) and additional protective clothing when needed to prevent dermal exposure.
VENTILATION REQUIREMENTS: Control airborne concentrations of TEMPO 20 WP through the use of general and local exhaust ventilation where needed.
RESPIRATOR REQUIREMENTS: When needed based on the conditions of use, wear a NIOSH-approved organic vapor respirator with particulate pre-filter.
ADDITIONAL PROTECTIVE MEASURES: Clean water and soap should be available for washing in case of eye or skin contamination. Educate and train employees in safe use of the product. Follow all label instructions. Launder clothing after use. Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES:

PHYSICAL FORM: Solid; Powder
COLOR: Tan
ODOR: Slightly aromatic
ODOR THRESHOLD: Not Established
MOLECULAR WEIGHT: 434.3 (for cyfluthrin)
pH: 9.2 (1% Solution)
BOILING POINT: Not applicable
MELTING/FREEZING POINT: Not applicable
SOLUBILITY IN WATER: 2 ppb (for cyfluthrin)
SPECIFIC GRAVITY: Not Applicable
BULK DENSITY: 20-26 lb/cu-ft
VAPOR PRESSURE: 3.3 x 10⁻⁸ mm Hg @ 20 °C (for cyfluthrin)

10. STABILITY AND REACTIVITY:

STABILITY: This is a stable material.
HAZARDOUS POLYMERIZATION: Will not occur.
INCOMPATIBILITIES: Alkaline media; reacts with methanol; incompatible with most disinfectants
INSTABILITY CONDITIONS: Not Noted
DECOMPOSITION PRODUCTS: Not established

11. TOXICOLOGICAL INFORMATION:

Only acute studies have been performed on this product as formulated. The non-acute information pertains to the active ingredient, cyfluthrin.

ACUTE TOXICITY:

ORAL LD50: Male Rat: 3084 mg/kg – Female Rat: 1733 mg/kg
DERMAL LD50: Male and Female Rabbit: >2000 mg/kg
INHALATION LC50: 4 hr exposure to Dust: Male and Female Rat: >1.18 mg/l (analytical) -- 1 hr exposure to Dust (extrapolated from 4 hr LC50): Male and Female Rat: >4.72 mg/l (analytical)

EYE EFFECTS: Rabbit: Mild irritation to the Iris and conjunctiva was observed with all irritation resolving within 7 days.

SKIN EFFECTS: Rabbit: Slight dermal irritant.

SENSITIZATION: Guinea Pig: Not a dermal sensitizer.

SUBCHRONIC TOXICITY:

In a 3 week dermal toxicity study, cyfluthrin was administered to rats for 6 hours/day at dose levels of 100, 340 or 1000 mg/kg. Animals received a total of 17-18 applications in a period of 22-23 days. An additional control and high-dose group were treated and maintained for 14-15 days following treatment so as to ascertain the extent of recovery. Effects observed included reduced feed consumption, red nasal discharge, urine stains, and findings at the dose site (scabbing, crusty, discolored and raised zones). Histologically, epidermal and dermal alterations in treatment skin were observed in animals of the mid- and high-dose groups. Similar, but slightly less severe microscopic alterations were also observed in the high-dose recovery group. The overall NOEL was 100 mg/kg. In a 13 week inhalation study, rats were exposed to cyfluthrin at aerosol concentrations of 0.09, 0.71 or 4.51 mg/m³ for 6 hours/day, 5 days/week. The NOEL was 0.09 mg/m³ based on reduced body weight gains.

CHRONIC TOXICITY:

Cyfluthrin has been investigated in chronic feeding studies using two different strains of rats. In each study, cyfluthrin was administered for 2 years at dietary concentrations ranging from 50 to 450 ppm. Body weight gains were decreased at concentrations of 150 ppm and greater. Changes in clinical chemistries occurred at 450 ppm. In one of the studies, histopathology revealed a numerical increase in mammary gland adenocarcinomas at 450 ppm. This finding was not statistically significant when compared to the controls and is not considered to be compound-related. In each study, the overall NOEL was 50 ppm based on decreased body weight gains. In a 1 year feeding study, dogs were administered cyfluthrin at dietary concentrations of 50, 100, 360 or 650 ppm. Beginning on week 8, the high-dose was reduced to 500 ppm for the remainder of the study due to severe clinical neurological symptoms. Body weights were decreased for animals of the high-dose. Neurological findings (gait abnormalities and postural reaction deficits) were observed at doses of 360 and greater. The NOEL was 100 ppm.

CARCINOGENICITY:

Cyfluthrin was investigated for carcinogenicity in chronic studies using several different strains of rats and mice. In rats, the maximum level tested was 450 ppm. Maximum levels tested in mice were 1400 and 1600 ppm for males and females, respectively. There was no evidence of a carcinogenic potential observed in any of the strains in either species.

MATERIAL SAFETY DATA SHEET

TOXICOLOGICAL INFORMATION continued:

MUTAGENICITY:

Numerous in vitro and in vivo mutagenicity studies have been conducted on cyfluthrin, all of which are negative.

DEVELOPMENTAL TOXICITY:

In developmental toxicity studies using rats, cyfluthrin was administered during gestation by oral gavage at doses ranging from 1 to 30 mg/kg. The overall NOEL from these studies for maternal toxicity was 3 mg/kg. No developmental effects were observed at any of the doses tested. In each study, the NOEL for developmental toxicity was equivalent to the highest dose tested. The NOELs for developmental toxicity for the initial study and the subsequent study were 30 and 10 mg/kg, respectively. Rabbits were administered cyfluthrin during gestation by oral gavage at doses ranging from 5 to 180 mg/kg. At maternally toxic levels, there was an increased incidence of post-implantation losses. The overall NOEL derived from these studies for both maternal and developmental toxicity was 20 mg/kg. In an inhalation study, rats were exposed during gestation to cyfluthrin at aerosol concentrations of 0.46, 2.55 or 11.9 mg/m³ for 6 hours/day. NOELs for maternal and developmental toxicity were less than 0.46 and 0.46 mg/m³, respectively.

REPRODUCTION:

In a reproduction study, cyfluthrin was administered to rats for 3 generations at dietary concentrations of 50, 150 and 450 ppm. Reproductive effects observed at parentally toxic levels included reductions in viability, lactation, litter size, feed consumption, and pup birth weights and body weight gains. Coarse tremors were observed in some offspring at 450 ppm. The NOEL for both parental and reproductive effects was 50 ppm. In another reproduction study, cyfluthrin was administered to rats for 2 generations at dietary concentrations of 50, 125 or 400 ppm. Coarse tremors occurring in conjunction with parental toxicity were observed in the offspring in the mid- and high-dose groups. Based on this finding, the neonatal NOEL was 50 ppm. The NOELs for parental and reproductive toxicity were 50 and 400 ppm, respectively.

NEUROTOXICITY:

Numerous neurotoxicity studies have been conducted on cyfluthrin. Oral gavage studies using hens have indicated that at extremely high dose levels (5000 mg/kg), minimal nerve damage occurs. When rats were administered cyfluthrin daily at oral doses of 40 to 80 mg/kg for 14 days, minimal nerve effects were seen. These effects were completely reversible within a 3 month recovery period. In dermal and inhalation studies which are more relevant to field exposure, there was no evidence of delayed neurotoxicity in hens. In a special investigative study, litters of neonatal mice (10 days of age) and their mothers were exposed to cyfluthrin via inhalation (whole body exposure). Mice were exposed to aerosol concentrations of 5, 15, or 50 mg/m³ for 6.3 hours/day for 7 successive days. Motor activity was measured in the offspring at 4 months of age (approximately 3.5 months post-exposure). At 50 mg/m³, all of the offspring died or were sacrificed in a moribund state following the first exposure. Mortalities were not observed at any of the other levels. Clinical symptoms were observed immediately after exposure in young mice at 15 mg/m³, and included decreased motility, temporary scratching, and tonic convulsions. There was an increase in motor activity in mice at 15 mg/m³. Histopathological investigations did not reveal any treatment-related findings in mice at the age of 4 months.

12. ECOLOGICAL INFORMATION:

This material is toxic to fish and highly toxic to bees when exposed to direct treatment or residues. Bayer will provide a summary of specific data upon written request. As with any pesticide, this product should be used according to label directions and should be kept out of streams, lakes and other aquatic habitats of concern. In event of a spill emergency, call 1-800-414-0244.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Follow all federal, state and local regulations. Bury material in EPA-approved landfill or burn in an incinerator approved for pesticide destruction. Do not reuse container.

14. TRANSPORTATION INFORMATION:

TECHNICAL SHIPPING NAME: Cyfluthrin
FREIGHT CLASS BULK: Insecticides, NOI - NMFC 102120
FREIGHT CLASS PACKAGE: Insecticides, NOI - NMFC 102120
PRODUCT LABEL: Not Noted
DOT (DOMESTIC SURFACE):
HAZARD CLASS OR DIVISION: Non-Regulated
IMO / IMDG CODE (OCEAN):
HAZARD CLASS DIVISION NUMBER: Non-Regulated
ICAO / IATA (AIR):
HAZARD CLASS DIVISION NUMBER: Non-Regulated

15. REGULATORY INFORMATION:

OSHA STATUS: This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA STATUS: This product is exempt from TSCA Regulation under FIFRA Section 3 (2)(B)(ii) when used as a pesticide.

CERCLA REPORTABLE QUANTITY: No components listed.

SARA TITLE III:

SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES: No components listed.

SECTION 311/312 HAZARD CATEGORIES: Immediate Health Hazard

SECTION 313 TOXIC CHEMICALS: Cyfluthrin-CAS# 68359-37-5 (20%)

RCRA STATUS: If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24) The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the MSDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

COMPONENT NAME

CAS NUMBER	CONCENTRATION	STATE CODE
Total crystalline silica (quartz)		
14808-60-7	<1 - 7 %	CA

CA = California Proposition 65

An evaluation of TEMPO 20 WP indicates potential exposure to respirable crystalline silica during normal use poses no significant risk and therefore does not trigger warning requirements as specified under California Proposition 65.

MATERIAL SAFETY DATA SHEET

16. OTHER INFORMATION:

NFPA 704M RATINGS:

Health: 2 Flammability: 1 Reactivity: 1 Other:
0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme

Bayer's method of hazard communication is comprised of Product Labels and Material Safety Data Sheets. NFPA ratings are provided by Bayer as a customer service.

REASON FOR ISSUE: Revise Sections 3 (carcinogenicity & IARC statements); 8 (respirator requirements); 11 (update subchronic, chronic, carcinogenicity, reproduction, & neurotoxicity data); 15 (add state regulatory information); revise to ANSI format

PREPARED BY: V. C. Standart
APPROVED BY: D. C. Eberhart
TITLE: Product Safety Manager
APPROVAL DATE: 09/07/1999
SUPERSEDES DATE: 07/11/1995
MSDS NUMBER: 08265

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Bayer Corporation. The data on this sheet relates only to the specific material designated herein. Bayer Corporation assumes no legal responsibility for use or reliance upon these data.

MATERIAL SAFETY DATA SHEET

WHITMIRE MICRO-GEN
RESEARCH LABORATORIES, INC.
3568 TREE COURT IND. BLVD.
ST. LOUIS, MO 63122
EFFECTIVE DATE: OCTOBER 12, 1998

Prescription Treatment® brand

(800) 777-8570 (8:00 A.M. to 4:30 P.M. CST)

WASP-FREEZE®

EMERGENCY PHONE NUMBERS:

Wasp & Hornet Killer

MEDICAL: (800) 225-3320 PROSAR

TRANSPORTATION: (800) 424-9300 CHEMTREC

Formula 1

EPA REG. NO.: 499-362

SECTION 1: HAZARDOUS INGREDIENTS

Active Ingredients:	ACGIH TLV/TWA	ACGIH STEL	OSHA PEL
Phenothrin: 0.120% (CAS #26002-80-2) [3-phenoxybenzyl d-cis and trans 2,2-Dimethyl-3-(2-methyl-1-propenyl) cyclopropane carboxylate]	NE	NE	NE
D-Trans Allethrin: 0.129% (CAS #28057-48-9)	5mg/m ³ NE	NE NE	NE NE
Solvents & Propellants: 99.751%			
Carbon Dioxide: (CAS #124-38-9)	5000 ppm	3000 ppm	5000 ppm
Isoparaffinic Petroleum Solvent: (CAS #64742-47-8)	NE	NE	500 ppm

All components of this product are listed or excluded from listing on the US Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

SECTION 2: PHYSICAL DATA

Boiling Point: NA	Evaporation Rate: NA
Specific Gravity (H ₂ O = 1): 0.800	Solubility in Water: Negligible
Vapor Pressure in Aerosol Container: 100 psig @ 70°F	Appearance and Odor: Pale yellow color with solvent odor.
Percent Volatile: ~100%	
Vapor Density: NA	

SECTION 3: FIRE AND EXPLOSION HAZARD DATA

Flashpoint: 144°F (TCC) (Aerosol Concentrate)
Flammable Limits: NA
NFPA 308 Flammability: Level 3 Aerosol
Extinguishing Media: CO₂; Dry Chemical; Foam
Special Firefighting Procedures: None required.
Unusual Fire and Explosion Hazards: Contents under pressure. Exposure to temperatures above 130°F may cause bursting.

SECTION 4: HEALTH HAZARD DATA

Threshold Limit Value: NE
Routes of Entry:

Inhalation?	Skin?	Ingestion?
Secondary	Primary	Tertiary

Health Hazard (Acute and Chronic) - Signs and Symptoms of Exposure:
Eye: May cause eye irritation.
Skin: Prolonged exposure may cause skin irritation and dermatitis.
Ingestion & Inhalation: Unlikely due to the product being pressurized and producing particles large enough not to be respirable. High concentrations of the isoparaffinic petroleum solvent (greater than 1000ppm) may cause headache and dizziness, are anesthetic, and may have other central nervous system effects. When used according to label directions, this level will not be attained.
Carcinogenicity:

NTP?	IARC Monograph?	OSHA Regulated?
No	No	No

Emergency and First Aid Procedures:

If Swallowed: Call a doctor and get medical attention. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Avoid alcohol.
If on Skin: Wash with plenty of water. Get medical attention.
If in Eyes: Flush eyes with plenty of water. Get medical attention if irritation persists.
If Inhaled: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.
Medical Conditions Generally Aggravated by Exposure: None known.

SECTION 5: REACTIVITY DATA

Stability: indefinite when used according to label directions.
Conditions to Avoid: Do not spray into open flame or onto hot surfaces. Do not store above 130°F.
Incompatibility (Materials to Avoid): None.
Hazardous Decomposition Products: Thermal decomposition in open flame may result in halogen acids and carbon dioxide.
Hazardous Polymerization: Will not occur.

SECTION 6: SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled: If container begins to leak (through puncture, etc.), allow it to discharge completely in well ventilated area, then dispose of in safe place.
Emergency Telephone Number of Chemtrec: (800) 424-9300 (for transportation spills)
Waste Disposal Method: *Container Disposal:* This container may be recycled in the few but growing number of communities where steel aerosol can recycling is available. Before offering for recycling, empty the can by using the product according to the label (DO NOT PUNCTURE!). If recycling is not available, wrap the container and discard in the trash. In case of spillage this product is subject to reporting requirements of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA).

SECTION 7: SPECIAL PROTECTION INFORMATION

Respiratory Protection: None required.
Ventilation: For outdoor use only.
Local Exhaust: NA Mechanical: NA
Special: NA Other: NA
Protective Gloves: None required.
Eye Protection: None required.
Other Protective Equipment: None required.

SECTION 8: SPECIAL PRECAUTIONS

Precautions to be taken in handling and storage: *Hazards to Humans and Domestic Animals:* Harmful if swallowed, inhaled, or if absorbed through the skin. Avoid breathing vapors or spray mist. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse. *Environmental Hazards:* This pesticide is highly toxic to fish. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters. *Physical Hazards:* Flammable. Contents under pressure. Keep away from heat, sparks and open flame. Do not puncture or incinerate container. Exposure to temperatures above 130°F may cause bursting. May cause staining (darkening) of asphalt surfaces and shingles. *Storage:* Store in a cool area away from heat or open flame.
Other Precautions: For outdoor use only.

SECTION 9: HEALTH RATING INFORMATION (NFPA)

Health - 1 Flammability - 1 Reactivity - 1

SECTION 10: SARA TITLE III/SEC. 313 SUPPLIER NOTIFICATION

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and of 40 CFR 372:

CAS#	Chemical Name	% by weight
This product contains no Section 313 chemicals above the de minimis concentration levels.		

SECTION 11: DOT SHIPPING INFORMATION

Proper Shipping Name: Consumer Commodity Hazard Class: ORM-D

NA - Not Applicable
NE - Not Established
PEL - Permissible Exposure Limit
ACL - Acceptable Ceiling Level
MPC - Maximum Peak Concentration

Product Code: 02-0518 (12 x 17.5 oz.)
Prepared by: Dana M. Thomas