



Date Issued: September, 1998
Supersedes: New

MATERIAL SAFETY DATA SHEET
AFFRONT™ FG FINE GRANULAR ANT, ROACH, & CRICKET CONTROL

Manufacturer: Wellmark International
Address: 1000 Tower Lane, Suite 245 Bensenville, IL 60106
Emergency Phone: 1-800-248-7763
Transportation Emergency Phone: CHEMTREC: 1-800-424-9300

1. CHEMICAL PRODUCT INFORMATION

Product Name: Affront™ FG Ant, Roach, & Cricket Control
Chemical Name/Synonym: Chlorpyrifos; 0,0-diethyl 0-(3,5,6 trichloro-2pyridyl) phosphorothioate
Chemical Family: Organophosphorus
Formula: C₉H₁₁N₀₃PS
EPA Registration No.: 2724-486
RF Number: 9809

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Component (chemical, common name)</u>	<u>CAS Number</u>	<u>Weight</u>	<u>Tolerance</u>
Chlorpyrifos 0,0-diethyl 0-(3,5,6 trichloro-2pyridyl) phosphorothioate	002921-88-2	0.5%	0.2mg/m3(OSHA & ACGIH)
Inert Ingredients		99.5%	

3. HAZARD INFORMATION

PRECAUTIONARY STATEMENTS
KEEP OUT OF THE REACH OF CHILDREN
CAUTION: Hazardous to Humans. May be harmful if swallowed. Do not take internally. Avoid inhaling dust. Avoid eye contact. Wash thoroughly after handling. Wash contaminated clothing before reuse. Keep away from food, foodstuffs, and domestic water supplies. Do not apply to areas accessible to children or pets.

SIGNS AND SYMPTOMS OF OVEREXPOSURE
Excessive exposure may produce organophosphate-type inhibition. Signs and symptoms of excessive exposure to chlorpyrifos may be headache, dizziness, incoordination, muscle twitching, tremors, nausea, abdominal cramps, diarrhea, sweating, pinpoint pupils, blurred vision, salivation, tearing, tightness in chest, excessive urination, convulsions.

PRIMARY ROUTE OF ENTRY Dermal/Eye: Yes Oral: No Inhalation: Yes
ACUTE TOXICITY
Oral: LD50 is expected to be greater than 2,000 mg/Kg. Small amounts swallowed incidental to normal handling operations are not likely to cause injury; swallowing amounts larger than that may cause injury.
Dermal: LD50 is expected to be greater than 4000 mg/Kg.

Inhalation: LC50 >0.68 mg/L (4hr) for 4 hours for a similar product (highest attainable conc.) Repeated excessive exposure to dusts may cause irritation of the upper respiratory tract.

OTHER TOXICOLOGICAL INFORMATION

Skin Irritation: Prolonged exposure not likely to cause significant irritation.

Eye Irritation: May cause moderate eye irritation.

Sensitizer: Unknown

4. FIRST AID MEASURES

Eye: Flush with plenty of water. Get medical attention if irritation persists.

Skin: Wash thoroughly with soap and water.

Ingestion: Call a Physician or Poison Control Center. Drink one or two glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting, or give any thing to an unconscious person.

Inhalation: Remove victim to fresh air, if symptoms of cholinesterase inhibition appear, get medical attention immediately.

Note to Physician: Active ingredient is a cholinesterase . Treat symptomatically. Atropine, by injection only, is antidotal. Product contains peanut oil. If ingestion should occur and result in an allergic reaction, treat symptomatically.

5. FIRE FIGHTING MEASURES

NFPA Rating: **Health: 1** **Fire: 0** **Reactivity: 0**

Flammability Class: Not applicable

Flash Point: Not applicable, (solid material)

Explosive Limits (% of Volume): Unknown

Extinguishing Media: Water fog, foam, CO2.

Special Protective Equipment: Use positive pressure self contained breathing apparatus and full protective equipment

Fire Fighting Procedures: Normal procedures. Do not allow water from fire fighting areas to enter sewers.

Combustion Products: None Known

Unusual Fire/Explosion Hazards: Toxic irritating gases may be formed above 160C (320F)

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken: Sweep up and place in suitable container for disposal. Do not enter drainage systems or water ways.

Absorbents: If in liquid form, use clay granules, sawdust, dirt or equivalent.

Incompatibles: Alkaline Materials

7. HANDLING AND STORAGE

Handling: Users should wash hands before eating, drinking, chewing gum, using tobacco, or using toilet.

Storage: Do not contaminate water, food or feed by storage. Store in original container out of the reach of children. Do not store above 100 degrees F. for extended periods of time. If container is damaged or if a spill occurs, use product immediately or dispose of product and damaged container.

8. EXPOSURE CONTROL / PERSONAL MEASURES

Exposure Limits: Chlorpyrifos=0.2 mg/m³ (OSHA PEL & ACGIH TLV)

Ventilation: Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines

Personal Protective Equipment: Applicators and other handlers must wear long sleeved shirt and long pants, waterproof gloves and shoes plus socks. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: Solid, somewhat yellow, granular and odorless

Boiling Point: Not Applicable

Melting Point: Not determined

Vapor Pressure (mm Hg): Low

Vapor Density (Air = 1): Not Determined

Specific Gravity: Not Determined

Bulk Density: Variable, typical about 44 lb/cu ft

Solubility: Not determined

Evaporation Rate: N/A

pH: 6.57

10. STABILITY AND REACTIVITY

Stability: Active decomposes at 160C (320F)—Avoid high temperatures.

Reactivity: Reacts in presence of oxidizing agents

Incompatibility w/ Other Materials: Avoid Alkaline Materials.

Decomposition Products: If product involved in fire, hydrochloric acid, ethyl sulfide, diethyl sulfide and nitrogen oxides may be formed.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

CHRONIC TOXICITY

Chlorpyrifos did not cause cancer in long term animal studies.

DEVELOPMENTAL/REPRODUCTIVE TOXICITY

In animal studies, Chlorpyrifos has been shown not to interfere with reproduction.

MUTAGENICITY

Chlorpyrifos is considered to have minimal mutagenic potential.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE [Active Ingredients Only]

Hydrolysis: Not determined

Photolysis: Not determined

Soil half life: Not determined

Water solubility: Not determined

ECOTOXICITY [Active Ingredients Only]

Acute Toxicity: This product is toxic to fish, birds, and other wildlife. Keep out of any body of water. Do not contaminate water when disposing of equipment washwaters.

13. DISPOSAL CONSIDERATIONS

Do not contaminate water, food, or feed by disposal..

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

Container Disposal: Do not reuse container. Rinse thoroughly before discarding in trash.

14. TRANSPORT INFORMATION

DOT49CFR Description: Not Regulated

Freight Classification: Insecticides N.O.I. O/T Poison NMFC I-102120

15. REGULATORY INFORMATION

CERCLA (Superfund): Reportable Quantity (RQ) – Chlorpyrifos = 1 lb. Contact the National Response Center (800)244-8802 for spills exceeding the RQ.

RCRA: Not regulated as hazardous

SARA 311/312 HAZARD CATEGORIES

Immediate Health: Yes

Delayed Health: Yes

Fire: No

Sudden Pressure: No

Reactivity: No

The information presented herein, while not guaranteed, was prepared by technically knowledgeable personnel and to the best of our knowledge is true and accurate. It is not intended to be all inclusive and the manner and conditions of use and handling may involve other or additional considerations.