Material Safety Data Sheet

FOR EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT, CALL:
CHEMTREC 1-800-424-9300

Section 1—Chemical Product and Company Identification

Product Name: ACTELLIC 5E Insecticide **EPA Reg. No.:** 1381-170
Common Name: Pirimiphos methyl
Chemical Description: 0-(2-Dimethylamino-6-methylpyrimidinyl) 0,0-dimethyl phosphorothioate

Manufacturer's Name:	Medical Emergency Telephone Number:
WINFIELD SOLUTIONS, LLC	**1-877-424-7452**
P. O. Box 64589	**MSDS Revision Date:** 04/25/2012
St. Paul, MN 55164-0589	Supersedes document dated: 10/2/2007

Section 2—Hazards Identification

Emergency Overview: Amber liquid with petroleum solvent odor. The liquid is distributed in a water soluble bag. Product may cause oxygen deficiency in confined spaces; follow all OSHA regulations pertaining to confined space entry. See health effects below.

CAUTION: Keep out of reach of children.

Route(s) of Entry: Eyes, Inhalation, Skin, and Ingestion.

This section includes possible adverse effects, which could occur if this material is not handled in the recommended manner.

Health Hazards (Acute and Chronic):
EFFECTS OF SINGLE OVEREXPOSURE:
Swallowing: Weakness, headache, tightness in chest, blurred vision, excessive sweating and salivation, nausea, vomiting constricted pupils, abdominal cramps.
Skin Absorption: All or some of the above symptoms and skin irritation.
Inhalation: All or some of the above symptoms.
Eyes: May cause watering of eyes and severe irritation.
EFFECTS OF REPEATED OVEREXPOSURE: Possible cholinesterase depression and kidney, liver and blood damage.

Medical Conditions Generally Aggravated by Exposure:
Preexisting respiratory conditions may be aggravated by exposure.

Section 3—Composition Information on Ingredients

Ingredient	% (wt)	CAS reg. #
Pirimiphos methyl	57.0%	29232-93-7
Aromatic hydrocarbons	1.0 - 10.0%	64742-95-6
Xylenes	1.0 - 5.0%	1330-20-7
Ethyl Benzene	1.0 – 5.0%	100-41-4

*Ingredients not specifically listed are non-hazardous and considered to be confidential business information. The above ingredients are those contained in the liquid product only and do not reflect the composition of the water soluble packaging which is considered to be non-hazardous.

NFPA HAZARD RATING:

0	Least		
1	Slight	**2**	**Health**
2	Moderate	**2**	**Flammability**
3	High	**0**	**Reactivity**
4	Severe		

Section 4—First Aid Measures

Inhalation: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth

Ingestion: 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 do so by the poison control center or doctor.

Eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.. Seek medical attention if eye irritation persists.

Skin: Remove contaminated clothing. Rinse skin with plenty of water for 15-20 minutes. Seek medical attention if skin becomes irritated.

After first aid, get appropriate in-plant, paramedic, or community medical support.

Section 5—Fire and Explosion Hazard Data

Extinguishing Media: Water fog, CO2, foam, dry chemical
Special Fire Fighting Procedures: Do not breathe smoke. Wear positive pressure self-contained breathing apparatus and full protective equipment. Dike to prevent entering drains, sewers, or water courses. Evacuate people downwind from fire.
Hazardous Combustion Products: Toxic gases may be formed in a fire situation. Carbon monoxide and other asphyxiates may form as well.
Unusual Fire and Explosion Hazards: Closed containers may explode from vapor expansion in high heat. Contain run-off by diking to prevent contamination of water supplies.

Section 6—Accidental Release Measures

Spills: Dike the area using absorbent or materials such as sand or clay. Recover and contain as much product as possible using absorbent. Clean spill area using a solution of water and detergent. Collect and contain wash water and all contaminated absorbent for disposal. If spilled on the ground, the affected area should be excavated to a depth of at least 1 – 2 inches.
Containment Prevent the spilled product or washings from reaching public sewers or waterways. Wear appropriate protective equipment during the cleanup. Ensure that tools and equipment are adequately decontaminated

Section 7—Precautions for Safe Handling and Use

Precautions to Be Taken in Handling and Storage: Store in original container at a cool, dry area away from children, feed and food products and sources of heat. Immediately clean up spills that occur during handling or storage.
Other Precautions: Consult Local, State, and Federal regulations pertaining to storage and disposal.

Section 8—Control Measures/Personal Protection

Respiratory Protection: Use NIOSH/MSHA approved respirator for organic vapors when vapor concentrations are high. Use positive pressure self-contained breathing apparatus for emergency conditions where exposure limits are exceeded.

Ventilation: **Local Exhaust:** Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs. Local exhaust ventilation is preferred.

Protective Gloves: Wear chemically protective gloves.
Eye Protection: Wear protective eyeglasses or chemical safety goggles. Contact lenses are not eye protective devices.
Other Protective Clothing or Equipment: Wear chemically protective boots, aprons, and gauntlets to prevent prolonged or repeated skin contact.
Work/Hygienic Practices: Never eat, drink, nor smoke in work areas. Practice good hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Section 9—Physical/Chemical Characteristics

Physical State:	Liquid	**Specific Gravity (H_2O=1):**	1.035 – 1.04
Vapor Pressure (mm Hg):	Not Determined	**Freezing Point:**	Not Determined
Vapor Density (Air=1):	Not Determined	**Boiling Point:**	Not Determined
Solubility in Water (wt %):	Emulsifiable	**pH:**	5.0 – 6.0
Appearance and odor:	Amber liquid with petroleum solvent odor.	**Flash Point:**	149.5 F

Section 10—Reactivity Data

Stability: Product stable at room temperature in closed containers under normal storage and handling conditions.
Chemical Incompatibilities: Strong acids and alkalis
Conditions to Avoid: Avoid excessive heat.
Hazardous Decomposition Products: None
Hazardous Polymerization: Will not occur.

Section 11—Toxicological Information

Eye Effects:	Severe eye irritant
Skin Effects:	Moderately irritating; LD50 > 5,000 mg/kg; non-sensitizer
Acute Inhalation Effects:	LC50 > 2.02 mg/L
Acute Oral Effects:	LD50 >2,000 mg/kg
Chronic Effects:	Not determined
Carcinogenicity:	This product contains naphthalene. The International Agency for Research on Cancer (IARC) evaluated naphthalene and concluded that there was sufficient evidence for carcinogenicity in experimental animals, but inadequate evidence for cancer in exposed humans. Naphthalene is considered a Group 2 carcinogen by IARC.
Carcinogenicity:	NTP: Not available IARC: Not available OSHA: Not Available

Section 12—Ecological Information

Soil Absorption/Mobility: Mobile in soil profile.

Section 13—Disposal Considerations

Waste: Dispose of in accordance with applicable Federal, state and local laws and regulations.
Container: Triple rinse (or equivalent) the empty containers. Then offer for recycling or reconditioning.
RCRA characteristics: Not determined

Section 14—Transport Information

Not regulated by the U.S. Department of Transportation as a hazardous material.

Section 15—Regulatory Information

TSCA Inventory: This product is exempt from TSCA classification as it is regulated under FIFRA.
SARA Title III, Section 302: None

SARA Title III, Section 311/312:		Immediate:	**Yes**	Delayed:	**No**
Sudden Release of Pressure:	**No**	Fire:	**No**	Reactive:	**No**

SARA Title III, Section 313: Pirimiphos methyl (CAS #29232-93-7) 57.0%; Xylene (CAS #1330-20-7) 5.0% maximum; Ethylbenzene (CAS #100-41-4) 5.0% maximum
CERCLA: No ingredients are present in a quantity that would trigger a CERCLA reportable quantity.

PROPOSITION 65: WARNING: This product may contain chemicals known to the State of California to cause cancer and birth defects or reproductive harm.

Section 16—Other

Disclaimer: The information presented herein is based on available data from reliable sources and is correct to the best of Winfield Solutions' knowledge. Winfield Solutions, LLC makes no warranty, express nor implied, regarding the accuracy of the data or the results obtained from the use of this product. Nothing herein may be construed as recommending any practice or any product in violation of any law or regulations. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precautions. We disclaim all liability for injury or damage stemming from any improper use of the material or product described herein.