

| NFPA HAZARD RATING | | | | U.S. TRANSPORT SUMMARY | |
|--------------------|----------|---|--------------|---|--|
| 0 | Least | | | Not regulated by the U.S. DOT as a hazardous material. See Section 14 for additional information. | |
| 1 | Slight | 1 | Health | | |
| 2 | Moderate | 2 | Flammability | | |
| 3 | High | 0 | Reactivity | | |
| 4 | Severe | | | | |

| SECTION 1: IDENTIFICATION | |
|--|---|
| Product Name: | Actellic® 5E Insecticide |
| EPA Registration #: | 1381-170 |
| Product ID/Unity #: | 10007688, 1420990, 1477849 |
| Common Name: | Pirimiphos methyl |
| Chemical Description: | O-(2-Dimethylamino-6-methylpyrimidinyl) O,O-dimethyl phosphorothioate |
| Recommended Uses: | Agricultural insecticide, grain protectant – See product label for complete list of uses and use sites. |
| Restrictions for Use: | See product label for information regarding restrictions on the use of this product. |
| Manufactured For: WINFIELD SOLUTIONS, LLC P. O. Box 64589 St. Paul, MN 55164-0589 | MEDICAL EMERGENCY TELEPHONE NUMBER: 1-877-424-7452 (24hrs) Non-Emergency Business Inquiries: 1-855-494-6343 Mon – Fri 8am – 5pm (Central Standard Time) |
| FOR EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT, CALL: CHEMTREC 1-800-424-9300 (24 hours) | |

| SECTION 2: HAZARDS IDENTIFICATION | |
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| EMERGENCY OVERVIEW: Amber liquid with petroleum solvent odor. Causes serious eye damage. Causes skin irritation. Combustible liquid. | |
| POTENTIAL HEALTH EFFECTS: Eyes: Causes serious eye irritation including corneal opacity, inflammation of the iris, and redness which can persist for several weeks. Skin: Causes moderate but reversible irritation including redness and swelling. Inhalation: May cause irritation of the upper respiratory system and weakness or dizziness. Ingestion: May cause the following symptoms if swallowed: Weakness, headache, tightness in chest, blurred vision, excessive sweating and salivation, nausea, vomiting, constricted pupils, abdominal cramps. Preexisting Conditions: Preexisting skin or respiratory conditions may be aggravated by exposure. Chronic Health Effects: Possible cholinesterase inhibition. Naphthalene, present at less than 0.15%, is suspected of being a human carcinogen. | |
| Carcinogenicity | NTP: Yes (Naphthalene) IARC: Group 2B (Naphthalene) OSHA: Not listed |
| OSHA HCS 2012 CLASSIFICATION: Eye Irritation Category 1; Skin Irritation Category 2; Flammable Liquids Category 4; Carcinogenicity Category 2 | |
| SIGNAL WORD: DANGER | |
| HAZARD STATEMENTS: Causes serious eye damage. Causes skin irritation. Combustible liquid. Suspected of causing cancer. | |
| Percent of product with unknown toxicity: 0% | |



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PRECAUTIONARY STATEMENTS:

Prevention: Wear protective gloves, protective clothing, eye protection and face protection. Wash hands thoroughly after handling. Keep away from flames and hot surfaces. - No smoking. Read product label before use. Do not handle until all safety precautions have been read and understood.

Response: **If in eyes:** Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison control center (1-877-424-7452) or doctor for treatment advice. **If on skin:** Wash with plenty of water. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash before reuse. **In case of fire:** Use water fog, CO₂, foam, or dry chemical to extinguish. **If exposed or concerned:** Get medical attention.

Storage: Store in a secure, well-ventilated place. Keep cool.

Disposal: Dispose of contents/container in accordance with Federal, state and local regulations.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredient | % (wt) | CAS Reg. # |
|--|---------------|-------------------|
| Pirimiphos methyl | 57.0% | 29232-93-7 |
| Solvent naphtha | <2.0% | 64742-94-5 |
| 1-hexanol | <1.0% | 111-27-3 |
| Naphthalene | <0.15% | 91-20-3 |
| *Ingredients not specifically listed are non-hazardous and are considered to be confidential business information under 29 CFR 1910.1200(i). | | |
| See Section 8 for exposure limits. | | |

SECTION 4: FIRST AID MEASURES

Inhalation: Remove person from contaminated area to fresh air and assist breathing as needed. Seek medical attention if irritation occurs.

Ingestion: Seek medical attention or call a poison control center for treatment advice. Do not induce vomiting unless instructed to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

Eyes: Flush eyes with clean water for at least 15 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses after 5 minutes and continue rinsing. Seek medical attention immediately.

Skin: Remove contaminated clothing and wash before re-using. Flush skin with water and then wash with soap and water. Seek medical attention if irritation persists.

SECTION 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water fog, CO₂, foam, dry chemical

Special Fire Fighting Procedures: Wear NIOSH/MSHA approved self-contained breathing apparatus and full bunker gear. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later. Avoid breathing vapors; keep upwind.

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.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Refer to Section 8 for personal protective equipment to be worn during containment and clean-up of a spill involving this product.

Environmental Precautions: Do not allow spilled product to enter sewers or waterways.

Methods for Containment: Contain spilled product by diking area with sand or earth.

Methods for Clean-up: Cover spilled product with an inert absorbent material such as sand, vermiculite or other appropriate material. Vacuum, scoop or sweep up material and place in a container for disposal. Do not place spilled material back in original container.

Other Information: None known

SECTION 7: HANDLING AND STORAGE

Handling: RECOMMENDATIONS ARE FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS. PESTICIDE APPLICATORS AND WORKERS must refer to the pesticide 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. Immediately clean up spills that occur during handling. Keep containers closed when not in use. Practice good hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Storage: Store in cool, dry areas away from children, feed and food products and sources of heat. Store in original container with lid tightly closed. Do not store in direct sunlight. **See pesticide product label for additional storage information.**

Minimum Storage Temperature: Not determined

Other Precautions: Consult Federal, state and local laws and regulations pertaining to storage.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**Exposure Guidelines**

| Component: | OSHA PEL | ACGIH TLV | NIOSH REL |
|-------------|---|------------------------|--|
| Naphthalene | TWA 10PPM (50 mg/m ³) STEL 15ppm _T | TWA: 10ppm STEL: 15ppm | TWA 10ppm(50mg/m ³) ST15ppm (75mg/m ³) |

NOTE TO END USERS: PERSONAL PROTECTIVE EQUIPMENT (PPE) AND CLOTHING LISTED IN THIS SECTION IS FOR MANUFACTURING, COMMERCIAL BLENDING AND PACKAGING WORKERS. APPLICATORS AND HANDLERS SHOULD REFER TO THE PESTICIDE PRODUCT LABEL FOR PROPER PERSONAL PROTECTIVE EQUIPMENT (PPE) AND CLOTHING.

Respiratory Protection: In areas with inadequate ventilation or where exposure limits are exceeded, use a NIOSH approved respirator with cartridges/canisters approved for pesticides.

Engineering Controls: **Local Exhaust:** Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs or other specified exposure limits. Local exhaust ventilation is preferred.

Protective Gloves: Wear chemical resistant gloves to prevent skin exposure.

Eye Protection: Wear chemical goggles or safety glasses and full-face shield. Contact lenses are not eye protective devices. An emergency eyewash or water supply should be readily accessible to the work area.

Other Protective Clothing or Equipment: Wear long sleeve shirt, long pants and chemical resistant footwear plus socks to prevent skin exposure.

Work/Hygienic Practices: Never eat, drink, nor use tobacco in work areas. Practice good hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|------------------------------------|--|---|----------------------------|
| Physical State: | Liquid | Specific Gravity (H₂O=1): | 1.064 – 1.072 |
| Vapor Pressure (mm Hg): | Not determined | Density (lbs/gallon): | 8.86 – 8.93 (8.90 typical) |
| Vapor Density (Air=1): | Not determined | Melting Point/Freezing Point: | Not determined |
| Solubility in Water (wt %): | Emulsifiable | Boiling Point/Range: | Not determined |
| Viscosity: | Not determined | pH: | 5.0 – 6.5 |
| Appearance and odor: | Amber liquid with petroleum solvent odor | Flash Point: | 155°F |

SECTION 10: STABILITY AND REACTIVITY

Reactivity: None known

Chemical Stability: Product is stable at ambient temperature and pressure, under normal storage and handling conditions.

Possibility of Hazardous Reactions: Will not occur

Conditions to Avoid: Excessive heat, sparks or flame

Incompatible Materials: Strong acids and alkalis

Hazardous Decomposition Products: Carbon oxides in a fire situation.

SECTION 11: TOXICOLOGICAL INFORMATION**ACUTE TOXICITY**

| | |
|--|---|
| Eye Effects: | Causes severe eye irritation with effects lasting past 21 days. |
| Skin Effects: | Causes skin irritation with erythema and edema clearing by day 7; LD50 >5,000 mg/kg; Not a skin sensitizer. |
| Acute Inhalation Effects: | LC50 >2.02 mg/L. No mortality or abnormalities were observed in the test animals and based upon the components; the product is not anticipated to be toxic by inhalation. |
| Acute Oral Effects: | LD50 >2,000 mg/kg |
| Specific Target Organ Toxicity: | None known |

CHRONIC TOXICITY

| | |
|-------------------------------|---|
| Chronic Effects: | Possible cholinesterase inhibition. |
| Carcinogenicity: | Naphthalene is suspected of being a human carcinogen. |
| Mutagenicity: | No component is anticipated to have mutagenic effects. |
| Teratogenicity: | No component is anticipated to have teratogenic effects. |
| Reproductive Toxicity: | No component is anticipated to have effects on the reproductive system. |

POTENTIAL HEALTH EFFECTS:

Eyes: Causes serious eye irritation including corneal opacity, inflammation of the iris, and redness which can persist for several weeks.

Skin: Causes moderate but reversible irritation including redness and swelling.

Inhalation: May cause irritation of the upper respiratory system and weakness or dizziness.

Ingestion: May cause the following symptoms if swallowed: Weakness, headache, tightness in chest, blurred vision, excessive sweating and salivation, nausea, vomiting, constricted pupils, abdominal cramps.

SECTION 12: ECOLOGICAL INFORMATION

ENVIRONMENTAL SUMMARY: This product is considered to be highly toxic to birds and aquatic organisms.

ECOTOXICITY DATA:

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|---|--|
| Fish Acute and Prolonged Toxicity: | Technical Pirimiphos methyl: Rainbow trout LC50 = 0.4 ppm (96 hour) Fathead minnow LC50 = 2.5 ppm (96 hour) |
| Aquatic Invertebrate Acute Toxicity: | Technical Pirimiphos methyl: Daphnia magna LC50 = 0.21 ppb (48 hour) |
| Aquatic Plant Toxicity: | Not determined |
| Bird Acute and Prolonged Toxicity: | Technical Pirimiphos methyl: Bobwhite Quail oral LD50 = 40 mg/kg |
| Honeybee Toxicity: | Not determined |

ENVIRONMENTAL EFFECTS:

| | |
|---------------------------------------|----------------|
| Soil Absorption/Mobility: | Not determined |
| Persistence and degradability: | Not determined |
| Bioaccumulative Potential: | Not determined |
| Other adverse effects: | Not determined |

SECTION 13: DISPOSAL CONSIDERATIONS

Waste: Dispose of in accordance with applicable Federal, state and local laws and regulations.

Container: Triple rinse and recycle the container or dispose of in accordance with Federal, state and local laws and regulations.

See pesticide product label for full instructions on disposal.

RCRA Characteristics: It is the responsibility of the individual disposing of this product to determine the RCRA classification and hazard status of the waste.

SECTION 14: TRANSPORT INFORMATION

| | |
|--------------------------------|---|
| DOT: (Ground) | This product is not regulated by the U.S. Department of Transportation as a hazardous material for ground shipment. |
| IMDG: (Sea) | Not determined |

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| | |
|--------------------------------|----------------|
| IATA: (Air) | Not determined |
| TDG: (Canada) | Not determined |

SECTION 15: REGULATORY INFORMATION

TSCA Inventory: This product is exempt from TSCA inventory listing requirements as it is solely for FIFRA regulated use.

SARA Title III Information:

Section 302 - Extremely hazardous substances: To the best of our knowledge, there are no chemicals known at levels that require reporting

Section 311/312 – Hazard Categories: Refer to section 2 for Hazard Categories

Section 313 – The following chemicals are subject to the reporting requirements of Section 313 of Title III, Superfund Amendments and Reauthorization Act of 1986 and 40 CFR 372:

Pirimiphos methyl (CAS #29232-93-7); Naphthalene (91-20-3);

CERCLA - This product contains the following chemicals which have a reportable quantity (RQ) under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA):

Naphthalene (91-20-3) has an RQ of 100 lbs (not reached with any practical quantity of product)

EPA Registration Information: This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

DANGER

Corrosive.

Causes irreversible eye damage.

Harmful if swallowed.

Do not get in eyes.

Wear protective eyewear (goggles or face shield) when handling.

Avoid contact with skin or clothing.

Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

California Proposition 65: WARNING: This product contains a chemical known to the state of California to cause cancer and/or reproductive harm.

U.S. State Worker and Community Right-To-Know (RTK) Information (CT, IL, MA, MN, NH, NJ, PA, RI):

| Chemical Name | CAS # | State(s) |
|-------------------|------------|--------------------|
| Pirimiphos methyl | 29232-93-7 | NJ |
| Naphthalene | 91-20-3 | NJ, PA, IL, MN, RI |
| 1-hexanol | 111-27-3 | NJ, PA |

Canadian Domestic Substances List: Not determined

WHMIS Classification: This product is not approved for use in Canada. WHMIS classification is not determined.

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.

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