


NFPA HAZARD RATING				U.S. TRANSPORT SUMMARY	
0	Least				Regulated in bulk packaging (119 gallons); see Section 14 for additional information.
1	Slight	2	Health		
2	Moderate	2	Flammability		
3	High	0	Reactivity		
4	Severe				

SECTION 1: IDENTIFICATION	
Product Name: Battery® 2.5EC EPA Registration #: 1381-188 Product ID/Unity #: 60326915 Common Name: Pyrethroid insecticide Chemical Description: Cypermethrin Recommended Uses: Agricultural insecticide – 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.	MEDICAL EMERGENCY TELEPHONE NUMBER: 1-877-424-7452 (24hrs) Non-Emergency Business Inquiries: 1-855-494-6343 Mon – Fri 8am – 5pm (Central Standard Time)
Manufactured For: WINFIELD SOLUTIONS, LLC P. O. Box 64589 St. Paul, MN 55164-0589	
FOR EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT, CALL: CHEMTREC 1-800-424-9300 (24 hours)	

SECTION 2: HAZARDS IDENTIFICATION			
EMERGENCY OVERVIEW: Yellow liquid with aromatic odor. Causes mild eye irritation. May cause reversible skin reaction. Aspiration hazard. May be fatal if swallowed. Flammable liquid.			
POTENTIAL HEALTH EFFECTS: Eyes: May cause tearing and mild irritation. Skin: Skin contact may produce skin sensations such as numbing, burning or tingling. These sensations are reversible within 12-24 hours of onset. Should not produce a sensitizing effect. Inhalation: May cause irritation of the upper respiratory tract. Ingestion: Mild to severe lung injury may occur if material is drawn into the lungs during swallowing, or during vomiting after swallowing. May be fatal if swallowed. Preexisting Conditions: None known. Chronic Health Effects: None known.			
Carcinogenicity	NTP: Mineral oil	IARC: Not listed	OSHA: Not listed
OSHA HCS 2012 CLASSIFICATION: Not determined			
SIGNAL WORD: WARNING			
HAZARD STATEMENTS: Not determined			
Percent of product with unknown toxicity: 0%			
PRECAUTIONARY STATEMENTS: Prevention: See Section 8 for personal protective equipment. Response: See Section 4 for first aid information. Storage: See Section 7 for storage information. Disposal: See Section 13 for disposal information.			

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS		
Ingredient	% (wt)	CAS Reg. #
Cypermethrin	30.6%	52315-07-8
Mineral oil	<30.0%	64742-55-8
Aromatic hydrocarbons	<40.0%	
*Ingredients not specifically listed are non-hazardous and are considered to be confidential business information under 29 CFR 1910.1200(j).		
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 if irritation occurs.
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.
Notes to Physician:	Contains aromatic hydrocarbon: Do not induce vomiting due to aspiration hazard, considerations should be given to gastric lavage. Ingestion of large amount might result in central nervous system stimulation.

SECTION 5: FIRE FIGHTING MEASURES
Suitable Extinguishing Media: Foam, carbon dioxide (CO ₂), dry chemical, water fog or water spray
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: Carbon oxides, hydrogen chloride, chlorine, hydrogen cyanide
Unusual Fire and Explosion Hazards: Combustible material. Heated material can form flammable and explosive vapors with air.

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: This pesticide is toxic to fish, aquatic invertebrates, oysters and shrimp. Do not allow spilled product or washings to enter sewers or waterways.
Methods for Containment: Contain spilled product by diking area with sand or earth.
Methods for Clean-up: Remove all ignition sources. 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.

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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. **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
Mineral oil		5 mg/m ³ (mist)	
<p>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.</p> <p>Respiratory Protection: Where airborne exposure to concentrations greater than the above listed exposure limits is likely, use a NIOSH approved respirator with cartridges/canisters approved for use against pesticides AND organic vapors.</p> <p>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.</p> <p>Protective Gloves: Wear chemical resistant gloves.</p> <p>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.</p> <p>Other Protective Clothing or Equipment: Wear long sleeve shirt, long pants and shoes plus socks to prevent skin exposure.</p> <p>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.</p>			

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid	Specific Gravity (H₂O=1):	0.971
Vapor Pressure (mm Hg):	Not determined	Density (lbs/gallon):	8.05 – 8.15 lbs/gallon
Vapor Density (Air=1):	Not determined	Melting Point/Freezing Point:	Not determined
Solubility in Water (wt %):	Emulsifies	Boiling Point/Range:	Not determined
Viscosity:	Not determined	pH:	4.71
Appearance and odor:	Yellow liquid with aromatic odor	Flash Point:	122°F (50°C)

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: None known
Conditions to Avoid: Heat, flames and sparks
Incompatible Materials: No materials to be especially mentioned.
Hazardous Decomposition Products: Carbon oxides, hydrogen cyanide, hydrogen chloride, chlorine

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY	
Eye Effects:	Moderately irritating
Skin Effects:	Moderately irritating; Not a skin sensitizer; LD50 >2,000 mg/kg (rabbit)
Acute Inhalation Effects:	LC50 >2.02 mg/L (4 hr rat)
Acute Oral Effects:	LD50 >355 mg/kg
Specific Target Organ Toxicity:	None known

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CHRONIC TOXICITY	
Chronic Effects:	Liver enlargement is often noted in laboratory animals that have ingested large doses of cypermethrin in their life span.
Carcinogenicity:	Mineral oil is listed by the National Toxicology Program as a known human carcinogen.
Mutagenicity:	No component is anticipated to have a mutagenic effect.
Teratogenicity:	No component is anticipated to have a teratogenic effect.
Reproductive Toxicity:	No component is anticipated to have an effect on the reproductive system.
POTENTIAL HEALTH EFFECTS:	
Eyes: May cause tearing and mild irritation.	
Skin: Skin contact may produce skin sensations such as numbing, burning or tingling. These sensations are reversible within 12-24 hours of onset. Should not produce a sensitizing effect.	
Inhalation: May cause irritation of the upper respiratory tract.	
Ingestion: Mild to severe lung injury may occur if material is drawn into the lungs during swallowing, or during vomiting after swallowing. May be fatal if swallowed.	

SECTION 12: ECOLOGICAL INFORMATION	
ENVIRONMENTAL SUMMARY: This pesticide is toxic to fish, aquatic invertebrates, oysters and shrimp. 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 apply when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters.	
ECOTOXICITY DATA:	
Fish Acute and Prolonged Toxicity:	Not determined
Aquatic Invertebrate Acute Toxicity:	Not determined
Aquatic Plant Toxicity:	Not determined
Bird Acute and Prolonged Toxicity:	Not determined
Honeybee Toxicity:	Not determined
ENVIRONMENTAL EFFECTS:	
Soil Absorption/Mobility:	The active ingredient cypermethin is not mobile in soil.
Persistence and degradability:	The active ingredient cypermethrin is rapidly degraded in soil with a half-life of 2-4 weeks. It is readily hydrolyzed under basic conditions; hydrolysis half-life period can be 20-29 days.
Bioaccumulative Potential:	The active ingredient cypermethrin has a high affinity for organic matter and a Log Pow of 5.0; yet because of the ease with which the material undergoes degradation, it has very low potential for bioconcentration (BCF = 17).
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. If disposed of as purchased – D001 due to flash point.	

SECTION 14: TRANSPORT INFORMATION	
DOT:	This product is not regulated by the U.S. Department of Transportation in quantities less than 119 gallons.
(Ground)	For quantities of 119 gallons or greater: UN1993, Flammable liquid, n.o.s. (aromatic hydrocarbon), 3, PG III This product contains a chemical which is listed as a severe marine pollutant according to DOT (cypermethrin).
IMDG: (Sea)	Not determined
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: None listed

Section 311/312 – Hazard Categories: Immediate (Acute), Fire

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:
None listed

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

None listed

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:

WARNING

May be fatal if swallowed.

Causes skin irritation.

Harmful if absorbed through skin.

Causes moderate eye irritation.

Do not get on skin or clothing.

Avoid contact with eyes.

Product should be opened and poured in a well-ventilated area.

California Proposition 65: This product does not contain any chemicals 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)
Cypermethrin	52315-07-8	MA
Mineral oil	64742-55-8	MN, 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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