



Material Safety Data Sheet (MSDS)
TOP KILL 40 EC

IDENTIFICATION OF THE SUPPLIER:

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PRODUCT IDENTIFICATION:

Common Name: Cypermethrin 40% w/v
Trade Name: Top Kill 40 EC
Type of formulation : Emulsifiable Concentrate (EC)
Chemical Name: RS) - ♦ - Cyano-3- phenoxybenzy1 (1RS, 3RS; 1RS, 3 SR)
-3-(2, 2-dichlorovinyl) = 2, 2- dimethylcyclopropanecarboxylate
Chemical Formula: C₂₂H₁₉Cl₂NO₃
Molecular Weight: 416.3

PRODUCT COMPOSITION:

Active Ingredient:	% w/v	CAS #
Cypermethrin	40 %	[52315-07-8]
Inert ingredient:		
Emulsifier	5 %	--
Solvent	Up to 100%	--

HAZARDOUS IDENTIFICATION:

EMERGENCY OVERVIEW

IMMEDIATE CONCERNS:

- Amber liquid with a soapy odor.
- Slightly combustible. May support combustion at elevated temperatures.



- 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.
- Expected to be moderately irritating to the skin and eyes.

POTENTIAL HEALTH EFFECTS: Effects from overexposure result from inhalation or coming into contact with the eyes or skin. Symptoms of overexposure include decreased activity, tremors, convulsions, loss of bladder control, incoordination, and increased sensitivity to sound.

Contact with cypermethrin may produce skin sensations such as numbing, burning and tingling.

These skin sensations are reversible and usually subside within 12 hours.

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.

INGESTION: Drink 1 or 2 glasses of water and induce vomiting by touching the back of the throat with a finger or by giving syrup of ipecac. Never induce vomiting or give anything by mouth to an unconscious person. Contact a medical doctor.

INHALATION: Remove to fresh air. If breathing difficulty or discomfort occurs and persists, contact a medical doctor.

FIRE-FIGHTING MEASURES: -

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

EXPLOSION HAZARDS: Slightly combustible. This material may support combustion at elevated temperatures.

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.

ACCIDENTAL RELEASE:

RELEASE NOTES: Isolate and post spill area. Wear protective clothing and personal protective equipment. Keep unprotected persons and animals out of the area.



PERSONAL PROTECTION/SAFTETY:

EYES AND FACE: wear chemical protective goggles or a face shield.

RESPIRATORY: wear as a minimum, a properly fitted half-face or full-face air-purifying respirator which is approved for pesticides 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. Leather items - such as shoes, belts and watchbands - that become contaminated should be removed and destroyed.

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 rubber, neoprene or nitrile. Thoroughly wash the outside of gloves with soap and water prior to removal. Inspect regularly for leaks.

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. Keep out of reach of children and animals. Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal.

TOXICOLOGICAL INFORMATION:

DERMAL LD₅₀: >2000 mg/kg (rabbit)

ORAL LD₅₀: 2342 mg/kg (rat)

INHALATION LC₅₀: 2.5 mg/L/4 hr (rat) (cypermethrin)

ACUTE EFFECTS FROM OVEREXPOSURE: This product has low oral and dermal toxicity. It is expected to have low inhalation toxicity. It is minimally irritating to the eyes, and non-irritating to the skin.

CHRONIC EFFECTS FROM OVEREXPOSURE: No data available for the formulation.



ECOLOGICAL INFORMATION: -

ENVIRONMENTAL DATA: When applied at agricultural use rates, cypermethrin has a moderate rate of degradation in the soil.
ECOTOXICOLOGICAL INFORMATION: Cypermethrin is considered highly toxic to fish and aquatic arthropods, and has LC50 values which range from 0.004 µg/L to 3.6 µg/L. The aquatic arthropods tended to be some of the more sensitive species. Care should be taken to avoid contamination of the aquatic environment. Cypermethrin is slightly toxic to birds and oral LD50 values are greater than 10,248 mg/kg.

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.

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.

