



MATERIAL SAFETY DATA SHEET
AMDRO® Quick Kill Lawn & Landscape Insect Killer Concentrate

2030 Powers Ferry Road, Suite 370
Atlanta, GA 30339

CAS NO. 52315-07-8
DATE: May 29, 2012

EMERGENCY TELEPHONE: 800-265-0761

EPA Reg. No. 279-3347-73342

SECTION I			
Trade Name: AMDRO® Quick Kill Lawn & Landscape Insect Killer Concentrate			
Chemical Name: Cyclopropanecarboxylic acid, cis-(+)-3-(2,2-dichloroethenyl)-2,2dimethyl-, (S)-cyano(3-phenoxyphenyl)methyl ester, AND Cyclopropanecarboxylic acid, trans-(+)-3-(2,2-dichloroethenyl)-2,2-dimethyl-, (S)cyano(3-phenoxyphenyl)methyl ester)			
Synonyms: Zeta-cypermethrin Formula: C ₂₂ H ₁₉ Cl ₂ NO ₃			
Chemical Family: Pyrethroid Pesticide			
SECTION II - INGREDIENTS SECTION			
COMPONENT	CAS NO.	%	PEL/TLV – SOURCE
Zeta-cypermethrin*	52315-07-8	0.35	None established
Proprietary Surfactant Blend	N/A	<2	None established
SARA Title III Section 313: * Not Listed			
SECTION III - PHYSICAL DATA			
BOILING POINT: > 100°C (>212 °F)			
MOLECULAR WEIGHT: 416.3 (Zeta-cypermethrin)			
ODOR: Practically odorless			
SPECIFIC GRAVITY OR BULK DENSITY: 1.0 g/mL @ 20°C (8.34 lb/gal)			
SOLUBILITY IN WATER: Soluble			
APPEARANCE: White to off-white liquid			
pH: 4.44 @ 24.3°C (76°F) (1% solution)			
SECTION IV - FIRE AND EXPLOSION DATA			
FLASH POINT (TEST METHOD): >200°F		AUTOIGNITION TEMP: N/A	
FLAMMABILITY LIMITS IN AIR (% BY VOL):		LOWER: N/A	UPPER: N/A
EXTINGUISHING MEDIUM	Use foam, CO ₂ , or dry chemical extinguishing media. Soft stream water fog only if necessary. Contain all runoff.		
SPECIAL FIREFIGHTING PROCEDURES	Isolate fire area. Evacuate downwind. Wear full protective clothing and self-contained breathing apparatus. Do not breathe smoke, gases or vapors generated.		
UNUSUAL FIRE EXPLOSION HAZARDS	Slightly combustible. This material may support combustion at elevated temperatures.		
SELECT ACRONYM KEY			
N/A – Not applicable; N/D – Not determined; N/R - Not rated; N/E – Not established			

SECTION V - HEALTH DATA

TOXICOLOGICAL TEST DATA:

EYE EFFECTS: Slightly irritating (rabbit)
SKIN EFFECTS: Slightly irritating (rabbit)
DERMAL LD₅₀: >5,000 mg/kg (rat)
ORAL LD₅₀: >5,000 mg/kg (rat)
INHALATION LC₅₀: 2.26 mg/l (4h) (rat)
SENSITIZATION: (Skin) Non-sensitizing (guinea pig)

ACUTE EFFECTS FROM OVEREXPOSURE: This product has low oral, dermal and inhalation toxicity. It is slightly irritating to the eyes and skin. Large doses of zeta-cypermethrin, ingested by laboratory animals, may produce signs of toxicity including tremors, incoordination, convulsions, staggered gait, and oral discharge. Experience to date indicates that contact with zeta-cypermethrin may produce skin sensations such as numbing, burning or tingling. These sensations are reversible and usually subside within 12 hours.

CHRONIC EFFECTS FROM OVEREXPOSURE: No data available for the formulation. In studies with laboratory animals, zeta-cypermethrin did not cause reproductive effects or teratogenicity in laboratory animals. An overall absence of genotoxicity has been demonstrated in tests of mutagenicity, DNA damage and chromosome aberrations.

OSHA, NTP, OR IARC Carcinogen: Not Listed.

EFFECTS OF OVEREXPOSURE:

See Product Label and Directions For Use for additional precautionary statements.

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
KEEP OUT OF REACH OF CHILDREN
See back panel for additional precautionary statements

Existing medical conditions aggravated by this product: None known.

FIRST AID PROCEDURES:

If swallowed:

- Call 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.
- Do not give anything by mouth to an unconscious person.

If in 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.
- Call a poison control center or doctor for treatment advice

Note to physician:

Skin contact (vapor or powder) may be followed by transient tingling or numbness, usually of the face, but this subsides without treatment. This product is a pyrethroid. If large amounts have been ingested, the stomach and intestines should be evacuated. Treatment is symptomatic and supportive.

SECTION VI - REACTIVITY DATA

STABILITY: Stable.
CONDITIONS TO AVOID: Excessive heat and fire.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, hydrogen cyanide, chlorine and hydrogen chloride.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION VII - PERSONAL PROTECTION

ENGINEERING CONTROLS: Use local exhaust at all process locations where vapor or mist may be emitted. Ventilate all transport vehicles prior to unloading.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: For splash, mist or spray exposure, wear chemical protective goggles or a face shield.

PROTECTIVE CLOTHING: Depending upon concentrations encountered, wear coveralls or long-sleeved clothing. For larger exposures as in the case of spills, wear full body cover barrier suit, such as a PVC suit. Leather items- such as shoes, belts and watchbands- that become contaminated should be removed and destroyed. Launder all clothing before reuse.

WORK HYGENIC PRACTICES: Clean water should be available for washing in case of eye or skin contamination. Wash prior to eating, drinking, chewing gum or using tobacco.

SECTION VIII - ENVIRONMENTAL DATA

- This pesticide is extremely toxic to fish, aquatic invertebrates, oysters and shrimp.
- To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters, or surface waters.
- Applying this product in calm weather when rain is not predicted for the next 24 hours will help ensure that wind or rain does not blow or wash pesticide off the treatment area.
- Rinsing application equipment over the treated area will help avoid runoff to water bodies or drainage systems.
- Care should be used when spraying to avoid fish and reptile pets in/around ornamental ponds.
- This product is highly toxic to bees. Do not apply this product to or allow to drift to blooming plants if bees are in the area.

The physical and environmental properties, as well as the environmental toxicology of zeta-cypermethrin, are similar to cypermethrin. Unless otherwise indicated, the data presented below pertains to cypermethrin.

ENVIRONMENTAL DATA: Cypermethrin is rapidly degraded in soil with a half-life of 2 to 4 weeks. It is readily hydrolyzed under basic conditions (pH=9), but under acidic and neutral conditions, hydrolysis half-life can be 20 to 29 days. Cypermethrin has a high affinity for organic material and a Log Pow of 5.0; yet because of the ease with which the material undergoes degradation, it has a very low potential for bioconcentration (BCF=17) and is not mobile in soil.

ECOTOXICOLOGICAL INFORMATION: Zeta-cypermethrin is considered highly toxic to fish and aquatic arthropods and has LC₅₀ values which range from 0.002 micrograms/L to 2.37 micrograms/L. These values are comparable to cypermethrin. 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.

SARA 311/312 REPORTING

FIRE: Y PRESSURE: N REACTIVITY: N ACUTE: Y CHRONIC: Y TPQ(lbs): N/R

SPILL AND LEAK PROCEDURES:

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

Keep material out of lakes, streams, ponds, and sewer drains. Dike to confine spill and absorb with a non-combustible absorbent such as clay, sand or soil. Vacuum, shovel or pump waste into a drum and label contents for disposal.

To clean and neutralize contaminated area, scrub area with a solution of detergent and water. Let solution sit five minutes. Use a stiff brush to scrub affected area. Repeat if necessary to remove visible staining.

Absorb wash liquid as noted above, remove visibly contaminated soil and place into recovery/disposal container (plastic, open-top steel drum or equivalent).

CONTAINER DISPOSAL:

If partially filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

If empty: Non refillable container. Do not reuse or refill this container. Offer for recycling, if available, or dispose of in trash.

SECTION IX - ADDITIONAL INFORMATION**AMDRO® Quick Kill Lawn & Landscape Insect Killer Concentrate****HANDLING AND STORAGE INFORMATION**

Keep from freezing. Keep out of reach of children and animals. Store in original container only. Store in a cool, dry place, preferable in a locked storage area and avoid excess heat. After partial use, make sure sprayer is in the off position and return to storage. Do not put concentrate or dilute material into drink containers.

Keep pets away from treated areas until the area of application is dry.

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KEEP OUT OF REACH OF CHILDREN.

AMBRANDS

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