

FarmSaver.com

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Chemtrec (24 Hours): (800) 424-9300

"For Chemical Emergency"

Spill, Leak, Fire, Exposure or Accident, Call:

Chemtrec (24 Hours): (800) 424-9300

Outside U.S., call collect: (703) 527-3887

MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT IDENTIFICATION

PRODUCT NAME: Quali-Pro Abamectin 0.15 EC	CHEMICAL NAME (FORMULA): Mixture of avermectins comprising mainly Avermectin B1a
CHEMICAL CLASS: Glycoside Acaricide/Insecticide	

SECTION 2 - HAZARDOUS INGREDIENT INFORMATION

Section 313 of Sara Title III: Ingredients subject to reporting are identified by asterisk (*)

CAS NO.	COMPONENT	%	ACGIH TLV	OSHA PEL	OTHER
71751-41-2	Abamectin	1.9%	N/A	N/A	0.2 mg/m ³ - TWA
128-37-0 872-50-4	BHT (Butylated Hydroxytoluene) N-methylpyrrolidone*	1.2% <25%	2 mg/m ³ N/A	10 mg/m ³ N/A	IARC Grp 3 10 ppm - TWA

SECTION 3 - PHYSICAL PROPERTIES

BOILING POINT: N/A	MELTING POINT: N/A	SPECIFIC GRAVITY: 0.98	VAPOR PRESSURE (ABAMECTIN): 7.5 x 10 ⁻⁸ @ 25°C
VAPOR DENSITY (AIR=1): >1	% SOLUBILITY IN WATER: Miscible	% VOLATILE BY WEIGHT: N/A	
APPEARANCE: Straw-Amber liquid	ODOR: None	Ph: 5.1@ 25°C	

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT & METHOD: >230°F / 110°C (PMCC)	FLAMMABLE LIMITS IN AIR (LFL - UFL): N/A
EXTINGUISHING MEDIA: Foam, CO ₂ , and dry chemical extinguishing media.	
SPECIAL FIRE FIGHTING PROCEDURES: Use positive-pressure, self-contained breathing apparatus and full protective clothing. Evacuate nonessential personnel from area to prevent human exposure to fire, smoke, fumes or products of combustion.	
UNUSUAL FIRE AND EXPLOSION HAZARDS: Thermal decomposition products may include, but are not limited to, carbon monoxide and carbon dioxide. This product is a NFPA Class IIIB Liquid.	

SECTION 5 - REACTIVITY DATA

STABILITY: Stable under normal conditions.
HAZARDOUS POLYMERIZATION: Will not occur.
HAZARDOUS DECOMPOSITION PRODUCTS: None known.
CONDITIONS & MATERIALS TO AVOID: None known.

SECTION 6 - PROTECTIVE EQUIPMENT & EXPOSURE CONTROL METHODS

RESPIRATORY PROTECTION: In areas with inadequate ventilation a NIOSH approved chemical cartridge respirator with organic vapor cartridges and pesticide pre-cartridges or a self-contained breathing apparatus may be required when working with this product.				
VENTILATION	LOCAL EXHAUST: Normal	MECHANICAL: Normal	SPECIAL: None	OTHER: None
PROTECTIVE GLOVES AND BOOTS: Chemical-resistant gloves, such as barrier laminate or butyl rubber ≥ 14 mils. Chemical-resistant footwear plus socks.			EYE PROTECTION: Protective eyewear (e.g., goggles or full-face shield)	

PRODUCT NAME: Quali-Pro Abamectin 0.15 EC

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Coveralls over long- or short- sleeved shirt and long or short pants. Chemical-resistant headgear for overhead exposure. Chemical-resistant apron when cleaning equipment, mixing or loading.	WORK/HYGIENIC PRACTICES: Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. DO NOT reuse them. Follow manufacturer's instructions for cleaning maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.
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SECTION 7 - HEALTH HAZARDS

PRIMARY ROUTES OF ENTRY:

Inhalation, skin, eye contact and ingestion

CARCINOGEN: Not a carcinogen	NTP: Not listed	MUTAGENICITY: Not a mutagen	TERATOLOGY (BIRTH DEFECTS): Not a teratogen
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INHALATION:

Harmful if inhaled. Avoid breathing spray mist. May irritate upper respiratory tract (nose and throat).

EYE CONTACT:

Causes substantial but temporary eye injury. DO NOT get in eyes.

SKIN CONTACT:

Harmful if absorbed through skin. Avoid contact with skin or clothing.

INGESTION:

May be fatal if swallowed. May cause severe gastrointestinal tract irritation with nausea, vomiting and possible burns.

ALLERGIC SKIN REACTIONS (Dilute Mix):

Sensitizing (Guinea Pig). Prolonged or repeated exposure may cause skin irritation in some individuals.

SECTION 8 - EMERGENCY & FIRST AID PROCEDURES

EYE CONTACT:

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 immediately for treatment advice.

SKIN CONTACT:

Take off contaminated clothing. Rinse skin immediately with plenty of soap and water for 15-20 minutes. Call a poison control center or doctor immediately for treatment advice.

INHALATION:

Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor immediately for treatment advice.

INGESTION:

Call a poison control center or doctor immediately for treatment advice. Do not give any liquid to the person. 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.

NOTES TO PHYSICIAN:

Early signs of intoxication include mydriasis (dilated pupils), ataxia (unsteadiness), and muscle tremors. Toxicity follows accidental ingestion of the Abamectin 0.15EC and can be minimized by promptly administering activated charcoal.

If toxicity from exposure has progressed to cause severe vomiting, the extent of resultant fluid and electrolyte imbalance should be gauged. Appropriate supportive parental fluid replacement therapy should be given, along with other required supportive measures (such as maintenance of blood pressure levels and respiratory functionality) as indicated by clinical signs, symptoms, and measurements.

In severe cases, observations should continue for at least several days until clinical condition is stable and normal. Since abamectin is believed to enhance GABA activity in animals, it is probably wise to avoid drugs that enhance GABA activity (barbiturates, benzodiazepines, valproic acid) in patients with potentially toxic abamectin exposure.

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SECTION 9 - SPILL, LEAK & DISPOSAL INFORMATION

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Small spill: Clean up spills immediately, observing precautions as described in Section 6. Absorb spill with absorbent material such as pet litter. After removal, flush contaminated area thoroughly with water containing a strong detergent. Sweep up and place in a chemical container. Seal the container and handle in an approved manner.

Large Spill: Keep out of streams and domestic water supplies. Dike to prevent contamination of local water sources.

WASTE DISPOSAL METHOD:

Pesticide spray mixture or rinsate that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticides. Improper disposal of excess pesticide spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by the use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

SECTION 10 – ECOLOGICAL INFORMATION

SUMMARY OF EFFECTS:

Highly toxic to aquatic organisms. Not bioconcentratable in fish.

FISH TOXICITY (Technical):

96 hour LC₅₀, Rainbow Trout

4.3 ug a.i./L

INVERTEBRATE (Technical):

48 hour LC₅₀, *Daphnia magna*

0.47 ug a.i./L

MOVEMENT & PARTITIONING:

Low mobility to immobile in various soils

K_{oc} = 1494 to 12,051

SECTION 11 - SHIPPING DATA

DOT PROPER SHIPPING NAME:

For packages containing product containers with Net Contents each greater than 1 gallon (i.e., 2 x 2.5 Gal Cases, 5 Gal Pails, 30 Gal Drums, etc.):

Pesticides, Liquid, Toxic, N.O.S. (Abamectin Solution), 6.1, UN2902, PGIII

D.O.T. Class 6, PG III, Hazard Label required on 2 x 2.5 gal cases and/or pails, drums.

For packages containing product containers with Net Contents each equal to or less than 1 gallon (i.e., 4 x 1 Gal Cases, 4 x 1 Qt Cases, 12 x 1 Qt Cases, etc.):

Pesticides, Liquid, Toxic, N.O.S. (Abamectin Solution), 6.1, UN2902, PGIII, Ltd Qty

D.O.T. Class 6, PG III, Hazard Label required on cases.

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) RATINGS:

Health 2

Flammability 1

Reactivity 0

Additional Labeling: None

SECTION 12 - SPECIAL INSTRUCTIONS

SPECIAL INSTRUCTIONS: **None.**

SECTION 13 - OTHER INFORMATION/PRECAUTIONS

SARA TITLE 3: SECTION 311/312 CATEGORIZATIONS (40CFR 370):

This product is a hazardous chemical under 29CFR 1910.1200, and is categorized as an acute and delayed health hazard. Central Nervous System effects were seen in animals with the Technical ingredient.

SARA TITLE 3: SECTION 313 INFORMATION (40CFR 372):

This product contains N-methylpyrrolidone (CAS No. 872-50-4)

COMMON ABBREVIATIONS THAT MAY HAVE BEEN USED: N/A = NOT APPLICABLE N/D = NOT DETERMINED

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DATE: 06/27/05 / SH3