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"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 Bifenthrin Nursery 7.9F	CHEMICAL NAME (FORMULA): C₂₃H₂₂ClF₃O₂ (Bifenthrin)
CHEMICAL CLASS: Pyrethroid Pesticide	

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	TWA
82657-04-3	Bifenthrin	7.9	N/D	N/D	N/D

SECTION 3 - PHYSICAL PROPERTIES

BOILING POINT: NA	MELTING POINT: N/A	SPECIFIC GRAVITY: 1.038 @ 20°C	VAPOR PRESSURE: N/D
VAPOR DENSITY (AIR=1): N/D	% SOLUBILITY IN WATER: Disperses		% VOLATILE BY WEIGHT: N/D
APPEARANCE: Eggshell white liquid	ODOR: Mild chemical odor		pH: 5.8 – 6.2

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT & METHOD: >100 °C/212 °F (TCC)	FLAMMABLE LIMITS IN AIR (LFL - UFL): Lower: N/D Upper: N/D
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EXTINGUISHING MEDIA:

CO₂, foam, or dry chemical extinguishing media. Soft stream water fog only if necessary. Contain all runoff.

SPECIAL FIRE FIGHTING PROCEDURES:

Isolate fire area and Evacuate downwind. Firefighters should be equipped with self-contained breathing apparatus full protective clothing. DO NOT breathe, gases or vapors generated.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Slightly combustible. This material may support combustion at elevated temperatures.

SECTION 5 - REACTIVITY DATA

STABILITY: **Stable. Store in a cool, dry, well-ventilated place.**

HAZARDOUS POLYMERIZATION: **Does not occur.**

HAZARDOUS DECOMPOSITION PRODUCTS: **Carbon monoxide, carbon dioxide, chlorine, fluorine, hydrogen chloride and hydrogen fluoride.**

CONDITIONS & MATERIALS TO AVOID: **Avoid excessive heat or fire. Do not use or store near heat, open flame or hot surfaces.**

SECTION 6 - PROTECTIVE EQUIPMENT & EXPOSURE CONTROL METHODS

RESPIRATORY PROTECTION:

NIOSH approved respirators with any R, P, or HE filter or NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R, P, or HE pre-filter.

VENTILATION	LOCAL EXHAUST: Adequate	MECHANICAL: Acceptable	SPECIAL: None	OTHER: None
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PROTECTIVE GLOVES AND BOOTS:

**Chemical resistant gloves such as rubber, neoprene or PVC.
Shoes plus socks.**

EYE PROTECTION:

Chemical goggles or full face shield recommended.

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OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

Long sleeved shirt and long pants.
Also recommended are coveralls and chemical resistant footwear plus socks.

WORK/HYGIENIC PRACTICES:

Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.
Thoroughly wash the outside of gloves with soap and water prior to removal. Remove and wash contaminated clothing and wash before reuse; use detergent and hot water. Keep and wash separately from other laundry.

SECTION 7 - HEALTH HAZARDS

PRIMARY ROUTES OF ENTRY:

Ingestion, inhalation, skin, and eyes.

CARCINOGEN:

Not listed.

NTP:

Not listed.

MUTAGENICITY:

N/A

TERATOLOGY (BIRTH DEFECTS):

N/A

INGESTION:

Harmful if swallowed.

INHALATION:

Harmful if inhaled. Avoid breathing spray mist.

SKIN CONTACT:

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

EYE CONTACT:

Avoid contact with eyes.

ALLERGIC SKIN REACTIONS (Dilute Mix):

NA

SECTION 8 - EMERGENCY & FIRST AID PROCEDURES

INGESTION:

Call a 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.

INHALATION:

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

SKIN CONTACT:

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

EYE CONTACT:

Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

NOTES TO PHYSICIAN:

This product is a pyrethroid. If large amounts have been ingested, the stomach and intestine should be evacuated. Treatment is symptomatic and supportive. Digestible fats, oils, or alcohol may increase absorption and so be avoided.

SECTION 9 - SPILL, LEAK & DISPOSAL INFORMATION

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Avoid contact with spills. Keep unprotected people, pets and other animals away from spills. Confine liquid spills by diking with an absorbent material such as cat litter or clay. Cover spills of treated dry materials to prevent contact and dispersion. Put damaged packages into a suitable container large enough to hold the entire package and be appropriately sealed. Mark the holding container to identify its contents and follow disposal direction. For major spills call CHEMTREC (800 424-9300).

WASTE DISPOSAL METHOD:

Pesticide wastes are toxic. DO NOT contaminate water, food, or feed by storage or disposal. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. Dispose of excess or waste pesticide by use according to label directions, or contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

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SECTION 10 – ECOLOGICAL INFORMATION

SUMMARY OF EFFECTS:

This pesticide is extremely toxic to fish and aquatic invertebrates. DO NOT apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and run-off from treated areas may be hazardous to aquatic organisms in neighboring areas. DO NOT contaminate water when disposing of equipment washwaters. Care should be used when spraying to avoid fish and reptile pets in/around ornamental ponds.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. DO NOT apply this product or allow to drift to blooming crops if bees are visiting the treatment area.

FISH TOXICITY (Technical):

96 hour LC₅₀, Rainbow Trout

NA

INVERTEBRATE (Technical):

48 hour LC₅₀, *Daphnia magna*

NA

MOVEMENT & PARTITIONING:

N/A

SECTION 11 - SHIPPING DATA

DOT PROPER SHIPPING NAME:

DOT:

Non-bulk-

Not DOT regulated.

Bulk-

Shipping name: Environmentally hazardous substance, liquid, n.o.s. (contains bifenthrin)

Hazard class: 9

UN number: 3082

Packing group: III

Additional Information: Marine pollutant

Label: Class 9, Marine pollutant

IATA:

Shipping name: Environmentally hazardous substance, liquid, n.o.s. (contains bifenthrin)

Hazard class: 9

UN number: 3082

Packing group: III

Additional Information: Marine pollutant

Label/Marking: Class 9, Marine pollutant

IMDG:

Shipping name: Environmentally hazardous substance, liquid, n.o.s. (contains bifenthrin)

Hazard class: 9

UN number: 3082

Packing group: III

Additional Information: Marine pollutant

Label/Marking: Class 9, Marine pollutant

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) RATINGS:

NA

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SECTION 12 - SPECIAL INSTRUCTIONS

SPECIAL INSTRUCTIONS:

Keep out of reach of children and animals. Do not contaminate other pesticides, fertilizers, water, food, or feed by store or disposal. Store in original containers only. Store in a cool, dry, well-ventilated place. Do not use or store near heat, open flame or hot surfaces.

SECTION 13 - OTHER INFORMATION/PRECAUTIONS

TSCA STATUS:

N/A

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

Immediate, Delayed

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

N/A

CALIFORNIA PROPOSITION 65:

Bifenthrin (CAS No. 82657-04-3)

CERCLA REPORTABLE QUANTITY:

N/A

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

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DATE: 08/10/06