MATERIAL SAFETY DATA SHEET



OLYMPIC HORTICULTURAL PRODUCTS CO. P.O. BOX 230, MAINLAND, PA 19451 800-659-6745 CAS NO. (a.i.): 11141-17-6 MSDS Rev. Date: April 1996

TRANSPORTATION EMERGENCY CALL CHEMTEL: (800) 255-3924 24 hrs in USA (813) 979-0626 24 hrs outside USA

PRODUCT NAME: AZATIN® XL BIOLOGICAL INSECTICIDE

EPA Registration Number 70051-27-59807

I. CHEMICAL PRODUCT IDENTIFICATION PRODUCT DESIGNATION: Formulated neem seed extract containing 3% azadirachtin. ACTIVE INGREDIENT (a.i.):	V. FIRE FIGHTING MEASURES (continued) Extinguishing media:CO ₂ , Halon, dry chemicals. Fire fighting instructions:Water may be used to cool fire-exposed containers, to protect personnel and to disperse vapors. Run-off water may be hazardous to fish. Fire fighters should wear normal protective equipment (full bunker gear) and positive-pressure self-contained breathing apparatus.
II. COMPOSITION (Hazardous Materials over 1%: Carcinogens over 0.1%) This product contains approx. 4.7 mass % napthalene (CAS no. 91- 20-3) and 1.8 mass % n-butanol (CAS no. 71-36-3).	VI. ACCIDENTAL RELEASE MEASURES This material is a water pollutant and should be prevented from
III. HAZARD IDENTIFICATION EMERGENCY OVERVIEW Causes eye irritation. Can cause skin irritation. May cause respira- tory irritation, especially at temperatures over 90°F. Toxic to fish. Dark, free-flowing liquid with odor of garlic or solvent.	entering sewers and drainage systems and bodies of water. Clean up: Absorb spills with inert material (sand, saw dust, earth, etc.) then place in a chemi- cal waste container. (See Exposure Controls/Personal Protection Section).
Eyes: .Causes eye irritation. Do not get in eyes. Skin: .May cause irritation. The dermal LD50 for rabbits is over 2,000 mg/kg. Ingestion: .May be harmful if swallowed in large amounts. The oral LD50 in rats is 4,242 mg/kg. Inhalation: .Not likely to be hazardous, except at high temperatures (over 90°F). Acute inhalation LC50 (rats) is > 2.18 mg/kg.	VII. HANDLING AND STORAGE Handling: Avoid contact with eyes. Keep container closed, use only in well ventilated area. Wash thoroughly after handling. Avoid prolonged breathing of vapors or spray mist. Storage: Temperature min/max = -20°F/100°F. Special sensitivity: Heat, light, moisture.
IV. FIRST AID MEASURES Eyes: .Immediately flush eyes with plenty of water. Get medical attention if irritation persists. Skin: .Wash with soap and water. Get medical attention if irritation develops. Inhalation: .No specific treatment is necessary since the material is not likely to be hazardous by inhalation. If exposed to excess levels of fumes or spray mist, remove to fresh air, and get medical attention if symptoms develop.	VIII. EXPOSURE CONTROL/PERSONAL PROTECTION (PPE) Eye Protection Requirement: Safety glasses, splash goggles or face shield. Contacts should not be worn. Skin Protection: Chemical resistant gloves such as barrier laminate, Viton, butyl rubber, nitrate rubber, or neoprene rubber (≥14mil). Coveralls, long sleeved shirt, shoes plus socks.
 Ingestion:	IX. CHEMICAL AND PHYSICAL PROPERTIES Boiling point:

PRODUCT NAME: AZATIN® XL BIOLOGICAL INSECTICIDE

EPA Registration Number: 70051-27-59807

X. STABILITY AND REACTIVITY

Chemical stability:(CONDITIONS TO AVOID) Keep away from open flames. Not unstable.

Hazardous decomposition products:None

Hazardous

polymerization:Will not occur.

XI. TOXICOLOGICAL INFORMATION

Eye:	. This material is irritating to the eyes.
Skin effects:	This material can be an irritation to
	the skin, especially at ambient tempera-
	tures over 90°F.
Acute oral effects:	Single dose oral toxicity is practically
	non toxic; the LD50 in rats is 4,241
	mg/kg.

XV. REGULATORY INFORMATION

US Federal Regs.:	Registered under FIFRA (Reg. No.
	62552-10-59807)
OSHA:	. Not hazardous by definition of
	Hazardous Communications.
	Standard (29 CFR 1910.11200)
CERCLA:	SARA Hazard Category: This product
	does not meet any of the hazard cate-
	gories promulgated under Sec. 311 and
	313 of the Superfund Amendment or
	Re-authorization Act of 1986 (SARA
	Title III).
International Regs.:	Canadian Environmental Protection
	Agency (CEPA): Not registered.
State Regs.:	There are no known additional require-
	ments necessary for compliance with
	state Right-to-Know regulation.
Volatile Organic	
Compounds (VOCs):	Contains no VOCs.

XVI. OTHER INFORMATION

The information herein is given in good faith, but no warranty, expressed or implied, is made.

Azatin is a registered trademark of Thermo Trilogy Corporation.

Acute inhalation:	The 4-hr. LC50 in rats was >2.18 mg/kg.
Subchronic:	Rats dosed with 600 mg/kg per day for
	90 days showed no overt adverse
	effects on target organs.
Chronic/Carcinogenicity:	.No data
Teratogenicity:	.No data
Reproductivity:	. No data
Mutagenicity:	Ames test negative with or without
	metabolic activation. Negative in the
	UDS and Mouse Lymphoma studies.
Immunotoxicity:	Not immunotoxic.

XII. ECOLOGICAL INFORMATION

Not expected to kill fish at recommended rates. Will cause significant fish kill if large concentrations reach waterways. Breaks down rapidly (in 100 hrs.) in water or light, and will not cause long-term effects. No significant effects on other wild life.

Chemical fate information:

Octanol/water partition

relatively high. Potential for mobility in soil is very low.

Accumulation in the environment is not expected. Biodegradation is expected in a waste water treatment plant.

XIII. DISPOSAL CONSIDERATIONS

Waste disposal method - Waste must be disposed of in accordance with federal, state and local environmental control regulations. Empty containers should be triple rinsed, and then can be placed in the local land fill or incinerated.

XIV. TRANSPORTATION INFORMATION

Domestic:Not regulated by DOT. Not regulated by IATA, ICAO, ICHO, T.C., ADR or RID.