MATERIAL SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: AllPro Vectofos 1.5 ULV
EPA REG. NUMBER: 53883-251-769
PRODUCT NUMBER:

MANUFACTURER: Value Garden Supply
ADDRESS: P.O. Box 585, St. Joseph, MO 64502

MANUFACTURER PHONE: (952) 884-6477
MANUFACTURER FAX PHONE: (952) 884-6149
EMERGENCY PHONE:

PRODUCT USE: Adult Mosquito Control

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS:	CAS NO.	% WT	OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
Chlorpyrifos	002921-88-2	19.36	ACGIH: 0.2 mg/m^3			
Inert Ingredients	64742-55-8	80.64	OSHA: 5 mg/m^3 (oil mist) 500 ppm (petroleum solvent)			

N/A = not applicable NE = not established

SECTION 3: HAZARD IDENTIFICATION

SYMPTOMS OF TOXICITY: Chlorpyrifos is a cholinesterase inhibitor. May cause headache, dizziness, muscle twitching, tremors, nausea, abdominal cramps, diarrhea, sweating, blurred vision, salivation, tearing, tightness in chest, excessive urination, convulsions. Chronic exposure may cause peripheral neuropathy.

POTENTIAL HEALTH EFFECTS: Slightly combustible.

REACTIVITY: Stable under most conditions. May break down into various toxic constituents under elevated temperatures. Avoid temperatures > 40^0 C.

CARCINOGENICITY: No evidence of carcinogenicity in long term animal studies.

SECTION 4: FIRST AID MEASURES

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 the eye. Call a poison control center or doctor for treatment advice.

SKIN: 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 if irritation persists.

INGESTION: Immediately call a poison control center or doctor. Do not induce vomiting unless directed to do so by a poison control center or a doctor. Do not give any liquid to the person. 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 mouth-to-mouth. Call a poison control center or doctor for further treatment advice.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: Chlorpyrifos is a cholinesterase inhibitor. Treat symptomatically. Atropine is antidotal. 2-PAM may be effective as an adjunct to atropine. This product contains petroleum distillate. Vomiting may cause aspiration pneumonia.

SECTION 5: FIRE-FIGHTING MEASURES

FLASH POINT: 165.2^0 F. Upper Flammability Limit: N/A
Lower Flammability Limit: N/A

EXTINGUISHING MEDIA: Foam, dry chemical, carbon dioxide, water fog

SPECIAL FIRE FIGHTING PROCEDURES: Foam systems are preferred. Use SCBA with full-face piece and protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Possible toxic smoke, vapors, fallout and runoff water can result from fires. Heated containers can rapidly pressurize/rupture.

REACTIVITY/STABILITY: Unstable at elevated temperatures. May release organic sulfides and HCl when burned. Hazardous polymerization will not occur.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Absorbent: Universal or oil-only absorbent pads, vermiculite, absorbent booms, or clay granules.

Containment: Do not discharge into municipal wastewater or public storm drains. Eliminate runoff as much as possible.

Waste Disposal: Dispose of contaminated material in municipal landfill or through licensed TSDF. Not a hazardous waste under RCRA, 40 CFR 261.

Reporting: Report all major spills and uncontrolled releases to proper local, state, and federal agencies. RQ- As a mixture, 5.165 pounds or 2/3 gallon.

SECTION 7: HANDLING AND STORAGE

STORAGE CONDITIONS: Do not store near foodstuffs or feed. Store in a cool, dry, well-ventilated area away from flammable materials and sources of heat. Keep away from oxidizing agents and alkaline material.

SPECIAL HANDLING CONSIDERATIONS: Exercise caution to prevent damage to or leakage from the container. Workers should follow good hygiene practices to avoid accidental ingestion.

CONTAINER DISPOSAL: Do not reuse empty containers. Triple rinse (or equivalent), then offer for recycling or render unusable and dispose of in municipal landfill or with licensed TSDF.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Use only in adequately ventilated areas.

RESPIRATORY PROTECTION: NIOSH approved half-mask or full-face with any N, P, or HE type filter.

EYE PROTECTION: ANSI approved goggles or safety glasses with side shields.

SKIN PROTECTION: Gloves, long sleeves, pants and shoes.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Odor:	Petroleum odor.	**Melting Point:**	N/A
Physical State:	Liquid.	**Flash Point:**	165.2^0 F.
Color:	Light straw	**Specific Gravity:**	0.93 (g/ml)
Bulk Density:	See specific gravity.	**pH**	N/A
Vapor Pressure:	N/A	**Water Solubility:**	Negligible
Viscosity:	N/A	**Refractive Index:**	N/A

SECTION 10: TOXICITY

ACUTE ORAL EFFECTS: Oral LD_{50}:>1923 mg/kg

ACUTE DERMAL EFFECTS: Dermal LD_{50}: >5000 mg/kg

SKIN CONTACT: Mildly irritating

EYE CONTACT: Irritating

ACTUE INHALATION EFFECTS: Inhalation LC_{50}: >2.3 mg/L

HMIS/NFPA CLASSIFICAITON: Fire – 1 Health – 2 Reactivity – 1 Fire – 1 Health - 2 Reactivity – 1 Special – none

OTHER COMMENTS: Avoid cross contamination. Always wash hands thoroughly after handling pesticides and before eating, drinking or smoking.

SECTION 11: ECOLOGICAL INFORMATION

AQUATIC: LC_{50} – Chlorpyrifos < 1.0 mg/L.

AVIAN: N/A

BIOACCUMULATION: Will not bioaccumulate.

SUMMARY: This product is extremely toxic to fish. Do not apply directly to water. Drift and runoff from treated areas may be hazardous to aquatic organisms in treated areas.

SECTION 12: TRANSPORTATION

DOT: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS CHLORPYRIFOS), 9, PG III, (RQ, CHLORPYRIFOS)

IATA: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS CHLORPYRIFOS), 9, PG III, MARINE POLLUTANT, (RQ, CHLORPYRIFOS)

IMDG: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS CHLORPYRIFOS), 9, PG III, MARINE POLLUTANT, (RQ, CHLORPYRIFOS)

SECTION 13: REGULATORY

SECTION 302/TPQ: (emergency planning) Not regulated under section 302.

SECTION 304/EHS RQ: (release notification) Not regulated under section 304.

CERCLA RQ: (release notification) RQ for Chlorpyrifos is 1 pound. As a mixture: RQ – 5.165 pounds or 2/3 gallon. Report all qualifying releases to proper local, state, and federal agencies.

SECTION 311/TIER II: (MSDS submission) Acute health hazard. Delayed health hazard. Fire hazard

SECTION 313/TRI Chemicals: Chlorpyrifos CAS # 002921-88-2

RCRA HAZ-WASTE Codes: Not an RCRA hazardous waste.

CAA TQ: (air emissions) Not regulated under the CAA.

SECTION 16: OTHER INFORMATION

NFPA and HMIS ratings assigned to this product are based on the hazards of its ingredient(s). Because the customer is most aware of the application of the product, he must ensure that the proper personal protective equipment (PPE) is provided consistent with information contained in the product MSDS.

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