

# MATERIAL SAFETY DATA SHEET

Conforms to 29 CFR 1910.1200 (OSHA HAZARD COMMUNICATION STANDARD)

Western Environmental Services  
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PRODUCT NAME: AQUA SWAT

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## SECTION I - PRODUCT IDENTIFICATION

Trade Names and Synonyms:

AQUA SWAT

Chemical Name/Synonyms:

N/A

Chemical Family:

ORGANOPHOSPHOROTHIOATE INSECTICIDE

Formula: AQUEOUS SOLUTION

## NFPA HAZARD IDENTIFICATION SYSTEM

HAZARD RATING		
		4 - Extreme
HEALTH	3	3 - High
FLAMMABILITY	2	2 - Moderate
REACTIVITY	0	1 - Slight
		0 - Insignificant

## SECTION II - HAZARDOUS INGREDIENTS

Substance	Approx. %	OSHA PEL	ACGIH TLV	CARCINOGENICITY			CAS No.
				NPT	IARC	OSHA	
O,O-diethyl O-(3,5,6-trichloro-2-pyridinyl) phosphorothioate (CHLORPYRIFOS)	0.50	0.2 ppm	0.2 ppm	N	N	N	2921-88-2
Aromatic Solvent	1.10	400 ppm	400 ppm	N	N	N	64742-95-6

## SECTION III - PHYSICAL DATA

Boiling Point (°F): 212

Vapor Pressure (mm Hg): NOT DET.

Vapor Density (air = 1): < 1.0

Solubility in water: SOLUBLE

Appearance and Odor: CLEAR, COLORLESS LIQUID, AROMATIC PETROLEUM ODOR

Specific Gravity: 0.998

% Volatile (volume %): NOT DET.

Evaporation Rate (ether = 1) > 1.0

pH: 7.2

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (°F): 117

(test method): CLOSED CUP

Extinguishing Media: FOAM, CARBON DIOXIDE, DRY CHEMICAL.

Special Fire Fighting Procedure: FIREFIGHTERS MUST BE EQUIPPED WITH FULL PROTECTIVE GEAR INCLUDING SELF-CONTAINED BREATHING APPARATUS.

Unusual Fire and Explosion Hazard: COOL DRUMS IN VICINITY OF FIRE WITH WATER MIST TO PREVENT EXPLOSION.

Flammable Limits in air (volume %)

Upper: N/A Lower: N/A

## SECTION V - REACTIVITY DATA

Stability: STABLE

Conditions to Avoid: HIGH TEMPERATURES

Incompatibility: AVOID CONTAMINATION WITH WATER, ACIDS OR ALKALIES.

Hazardous Decomposition Products: THERMAL DECOMPOSITION MAY YIELD OXIDES OF CARBON.

Hazardous Polymerization: WILL NOT OCCUR

Conditions to Avoid: NONE

**SECTION VI - HEALTH HAZARD DATA**

Threshold Limit Value (TLV): NOT ESTABLISHED

Primary Route(s) of Exposure: EYE CONTACT, INGESTION

Effects of Overexposure: **EYES:** MODERATE EYE IRRITATION, MAY CAUSE SLIGHT CORNEAL INJURY. **SKIN:** PROLONGED OR REPEATED EXPOSURE MAY CAUSE IRRITATION. **INGESTION:** AMOUNTS INGESTED DUE TO INCIDENTAL HANDLING ARE NOT LIKELY TO CAUSE INJURY; INGESTION OF LARGER AMOUNTS MAY CAUSE SERIOUS INJURY, EVEN DEATH. **INHALATION:** EXCESSIVE SALIVATION, RESPIRATORY DIFFICULTY, MUSCLE TWITCH, CONVULSIONS, HEADACHE, CONSTRICTED PUPILS (ACETYLCHOLINE EFFECTS).

Emergency and First Aid Procedures: **EYES:** FLUSH EYES AND UNDER EYELIDS WITH PLENTY OF COOL WATER FOR AT LEAST 15 MINUTES. OBTAIN MEDICAL ATTENTION. **SKIN:** REMOVE CONTAMINATED CLOTHING AND LAUNDER BEFORE RE-USE. WASH WITH SOAP AND WATER. **INGESTION:** CALL PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY. DO NOT INDUCE VOMITING. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. **INHALATION:** REMOVE PERSON TO FRESH AIR. ADMINISTER ARTIFICIAL RESPIRATION IF INDICATED AND CALL A PHYSICIAN IMMEDIATELY.

**SECTION VII - SPILL OR LEAK PROTECTION**

Steps to be taken if Material is Released or Spilled: CONTAIN SPILL. SOAK UP ON INERT ABSORBENT MATERIAL AND PLACE IN CLOSED CONTAINER FOR DISPOSAL.

Waste Disposal Method: CONSULT LOCAL ENVIRONMENTAL AUTHORITIES. REFER TO NACA "DISPOSAL METHODS FOR ORGANIC PHOSPHATES AND RELATED MATERIALS".

**SECTION VIII - SPECIAL PROTECTION INFORMATION**

Respiratory Protection: USE WITH ADEQUATE PROTECTION. USE A NIOSH APPROVED RESPIRATOR TO PREVENT BREATHING OF MISTS AND VAPORS.

Ventilation: Local Exhaust: RECOMMENDED

Mechanical: RECOMMENDED

Protective Gloves: RUBBER GLOVES

Eye Protection: GOGGLES OR FACE SHIELD

Other Protective Equipment: PROTECTIVE CLOTHING, EMERGENCY SHOWER AND EYE WASH STATION

**SECTION IX - SPECIAL PROTECTION**

Precautions to be Taken in Handling or Storage: STORE IN A COOL, DRY PLACE. DO NOT CONTAMINATE WATER, FEED, OR SEED BY STORAGE OR DISPOSAL. WASH THOROUGHLY AFTER USAGE. KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE. DO NOT CONTAMINATE ANY BODY OF WATER BY CLEANING OF EQUIPMENT.

Other Precautions: KEEP OUT OF REACH OF CHILDREN. DO NOT BREATHE VAPORS.

**SECTION X - REGULATORY INFORMATION**

DOT Proper Shipping Name: ORGANOPHOSPHORUS PESTICIDES, LIQUID, TOXIC (CHLORPYRIFOS)

DOT Class: 6.1

DOT ID Number: UN3018

DOT Packing Group: III (Chlorpyrifos)

SARA/TITLE III - CERCLA List of Hazardous Substances and Reportable Quantities (40 CFR 302.4): This product does contain an ingredient(s) listed as a hazardous ingredient for Emergency Release Notification under section 304: Chlorpyrifos (CAS No. 2921-88-2).

SARA/TITLE III - List of Extremely Hazardous Substances for Emergency Planning and Notification (40 CFR 355): This product does not contain an ingredient(s) listed as an extremely hazardous substance (EHS) for Emergency Planning under sections 302 and for Emergency Release Notification under section 304.

SARA/TITLE III - List of Toxic Chemicals subject to Release Reporting (Community Right to Know) (40 CFR 372): This product does not contain an ingredient(s) listed as a toxic chemical for Annual Release Reporting Requirements under section 313.