

MATERIAL SAFETY DATA SHEET



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For Emergency Spill Information
Call CHEMTREC 800-424-9300
For Medical Emergencies call 800-308-5391

Creation Date: 06/22/05

SECTION 1 - PRODUCT IDENTIFICATION

PRODUCT NAME: Quali-Pro DF Dry Flowable Chlorothalonil Fungicide	CHEMICAL FORMULA: Tetrachloroisophthalonitrile
CHEMICAL FAMILY: Chlorinated Benzonitrile Fungicide	
SIGNAL WORD: WARNING	

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
1897-45-6	Tetrachloroisophthalonitrile	82.5	NE	NE	0.1 mg/m³
	Inert ingredients	17.5			

SECTION 3 - PHYSICAL PROPERTIES

BOILING POINT: >350 C	PH: 8.8	SPECIFIC GRAVITY (H ₂ O=1) Not Determined	VAPOR PRESSURE (mmHg) 5.72 x 10⁻⁷ torr @25C
VAPOR DENSITY (AIR=1): Not determined	SOLUBILITY IN WATER: Dispersible in water	% VOLATILE BY WEIGHT: 34	
APPEARANCE: Brown powder	ODOR: slight	BULK DENSITY 0.662 g/mL @24 C	

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT & METHOD: Nonflammable	FLAMMABLE LIMITS IN AIR - LEL: Noncombustible	UEL:
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EXTINGUISHING MEDIA:

Dry chemical, water spray, foam, carbon dioxide. Self-contained breathing apparatus should be provided for firefighters

SPECIAL FIRE FIGHTING PROCEDURES:

If product is involved in a fire, wear positive-pressure, self-contained breathing apparatus and full protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

May decompose under fire conditions emitting gases and vapors (e.g. hydrogen chloride), which may be toxic and irritating to the respiratory tract.

SECTION 5 - REACTIVITY DATA

STABILITY: **Stable under normal conditions.**

HAZARDOUS POLYMERIZATION: **N/A**

HAZARDOUS DECOMPOSITION PRODUCTS: **May decompose under fire conditions emitting gases and vapors (e.g. hydrogen), which may be toxic or irritating to the respiratory tract.**

CONDITIONS & MATERIALS TO AVOID:

Highly alkaline conditions

SECTION 6 - PROTECTIVE EQUIPMENT & EXPOSURE CONTROL METHODS

RESPIRATORY PROTECTION:

Atmospheric levels should be maintained below the exposure guidelines. For most conditions, no respiratory protection should be needed; however, if handling without sufficient ventilation, use NIOSH approved air-purifying respirator with N, P or R 95 class filter and an organic vapor cartridge.

VENTILATION	LOCAL EXHAUST: ADEQUATE	MECHANICAL: ACCEPTABLE	SPECIAL: NONE	OTHER: NONE
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PROTECTIVE GLOVES:

Chemical resistant gloves (e.g., nitrile, neoprene)

EYE PROTECTION:

Use chemical splash goggles or face shield

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

NIOSH- approved dust respirator. Long-sleeved shirt, shoes, socks and long pants

WORK/HYGIENIC PRACTICES:

**AVOID SKIN AND EYE CONTACT
REI 12 hours**

PRODUCT NAME: Quali-Pro DF

SECTION 7 - HEALTH HAZARDS

PRIMARY ROUTES OF ENTRY:

INHALATION, INGESTION, SKIN AND EYES

CARCINOGEN:

**Chlorothalonil: IARC-2B
Possible human carcinogen**

NTP:

N/A

IARC MONOGRAPHS:

**Chlorothalonil: IARC-2B
Possible human carcinogen**

OSHA:

Considered hazardous

INHALATION:

May be fatal if inhaled. Do not breathe dust or spray mist.

EYE CONTACT:

Causes substantial but temporary eye injury.

SKIN CONTACT:

Not readily absorbed through the skin. May cause skin irritation. May be potential skin sensitizer.

INGESTION:

May cause irritation to the digestive tract, following ingestion of large amounts

SECTION 8 - EMERGENCY & FIRST AID PROCEDURES

EYE CONTACT:

Open eyes and flush with water at least 15 minutes. Do not attempt to neutralize with chemical agents. Seek medical attention immediately.

SKIN CONTACT:

Remove contaminated clothing and shoes. Wash with plenty of soap and water for 15-20 minutes or until no evidence of chemical remains. Seek medical attention if irritation develops.

INHALATION:

Remove to fresh air. Get medical attention immediately.

INGESTION:

If swallowed, give 1-2 glasses of water and induce vomiting. Never give anything to an unconscious person. Get medical attention immediately.

SECTION 9 - SPILL, LEAK & DISPOSAL INFORMATION

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

This product is toxic to fish. Keep out of lakes, streams or ponds. Contain spill. Remove as much as possible by absorbing with inert material. Remove any contaminated soil. Place in closed, labeled containers and store in a safe place until disposed. Do not contaminate water while cleaning equipment or disposing of wastes. Persons performing this work should wear adequate personal protective equipment and clothing.

CONTAINER DISPOSAL METHOD: Completely empty bag into application equipment, then dispose of empty bag in a sanitary landfill, or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

WASTE DISPOSAL METHOD:

Pesticide wastes are toxic. Dispose of in accordance of State and Local pesticide disposal guidelines.

SECTION 10 - SHIPPING DATA

DOT PROPER SHIPPING NAME: **Not Regulated.**

International Transportation:

By Water: Environmentally Hazardous Substance, Liquid, N.O.S. (Chlorothalonil), Marine Pollutant, 9, UN3077, PGIII

SECTION 11 - SPECIAL PRECAUTIONS & OTHER INFORMATION

SPECIAL INSTRUCTIONS:

Read and follow all label instructions before use. Avoid contaminating water. Do not reuse containers. Open dumping is prohibited.

OTHER INFORMATION/PRECAUTIONS:

SARA TITLE III

313 Reportable Ingredients: This product contains chlorothalonil, which is listed in Section 313 above *de minimis* concentrations (40 CFR §372).

This material is listed as a carcinogen by California Proposition 65.

COMMON ABBREVIATIONS THAT MAY HAVE BEEN USED: N/A = NOT APPLICABLE N/E = NOT ESTABLISHED

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