

MATERIAL SAFETY DATA SHEET

TURFLON* ESTER

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Issue Date: 12/99

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Chemical Product

TURFLON* Ester

EPA Reg. No. 17545-8

Common Name: Triclopyr.

TSCA/CAS No.: The primary CAS number is 064700-56-7.

Manufactured For

Monterey Chemical Company

P. O. Box 35000

Fresno, CA 93745-5000

Emergency Phone Numbers

Emergency Telephone: DAYS: (559) 499-2100 EVES.: (559) 431-7390

CHEMTREC (24-Hour Emergency Number): (800) 424-9300

EPA National Response Center: (800) 424-8802

SECTION 2. HAZARDOUS INGREDIENTS

CHEMICAL	CAS NO.	%	TLV OR PEL	RQ (lbs)
Triclopyr (3,5,6-trichloro-2-pyridinyloxyacetic acid, butoxy ethyl ester)	064700-56-7	61.6%	N.A.*	N.P.*
Kerosene Proprietary Surfactants	008008-20-6	N.A.	N.A.	N.P.

* N.A. - Not Available.

* N.P. - Not Pertinent.

SECTION 3. EMERGENCY/HAZARDS OVERVIEW

Amber liquid with combustible properties. Avoid contact with acid, base and oxidizing material. Nitrogen oxides, hydrogen chloride, and phosgene may result under fire conditions. Not D.O.T. regulated.

HEALTH: 2 REACTIVITY: 1 FLAMMABILITY: 2 ENVIRONMENT: 1

(0 = Insignificant 1 = Slight 2 = Moderate 3 = High 4 = Extreme)

SECTION 4. FIRST AID

Eyes: Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention if irritation persists.

Skin: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Get medical attention if irritation persists.

Ingestion: Call a doctor or get medical attention. Do not induce vomiting.

Inhalation: Remove victim to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. Get medical attention.

NOTE TO PHYSICIAN: The decision of whether to induce vomiting or not should be made by an attending physician. If lavage is performed, endotracheal and/or esophageal control is suggested. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. No specific antidote. Supportive care - treatment based on judgment of the physician in response to reactions of the patient. Repeated excessive exposure may aggravate pre-existing liver and kidney disease.

SECTION 5.	FIRE AND EXPLOSION HAZARDS
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Flash Point:	> 147°F.
Test Method:	TCC
LEL Flammable Limits:	Not determined.
UEL Flammable Limits:	Not determined.
Autoignition Temperature:	Not determined.
Flammability Classification:	Combustible.
Known Hazardous Products of Combustion:	Not known.
Properties that Initiate/Contribute to Intensity of Fire:	None.
Potential For Dust Explosion:	None.
Reactions that Release Flammable Gases or Vapors:	Not known.
Potential For Release of Flammable Vapors:	None.
Unusual Fire & Explosion Hazards:	Toxic, irritating vapors may be produced if produce is involved in fire.
Extinguishing Media:	Water fog, foam, CO ₂ , and dry chemical.
Special Firefighting Procedures:	Wear positive pressure, self-contained breathing apparatus and goggles. Avoid smoke inhalation. Contain any liquid runoff.

SECTION 6.	SPILLS AND LEAKS
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Containment:	Prevent product spillage from entering drinking water supplies or streams.
Clean Up:	Collect liquid or absorb onto absorbent material and package for disposal.
Evacuation:	Not necessary.

SECTION 7.	STORAGE AND HANDLING
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Storage:	Store in plastic or stainless steel container in a cool, well-ventilated, dry place at temperatures above 40°F. Do not store near food or feeds. Do not stack pallets more than two (2) high.
Transfer Equipment:	Transfer product using chemical-resistant plastic or stainless steel tanks, pumps, valves, etc.
Work/Hygienic Practices:	Harmful if swallowed, absorbed through skin, or inhaled. Avoid contact with eyes, on skin or on clothing. Avoid breathing spray mists or vapors. Wear long-sleeved shirt and pants, waterproof gloves and shoes plus socks. Wash with soap and water after handling. Remove contaminated clothing and wash clothing before reuse. Do not contaminate feed and foodstuffs. Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons.

SECTION 8.	PERSONAL PROTECTIVE EQUIPMENT
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Eyes:	Chemical dust/splash goggles or full-face shield to prevent eye contact. As a general rule, do not wear contact lenses when handling.
Skin:	Impervious gloves and clothes.
Respiratory:	Not normally needed. If use generates an aerosol mist or respiratory irritation, use NIOSH-approved dust/mist respirator (such as 3M #8710).
Ventilation:	Recommended but no TLV established.

SECTION 9. PHYSICAL AND CHEMICAL DATA

Appearance:	Amber liquid.
Odor:	Kerosene-like.
pH:	Not available.
Vapor Pressure:	0.1 mm @ 37.8°C (Kerosene)
Vapor Density (Air = 1):	> 1
Boiling Point:	> 302°F
Freezing Point:	Not available.
Water Solubility:	Emulsifies
Density:	9.01 lbs./gal.
Evaporation Rate:	Not available.
Viscosity:	Not available.
% Volatile:	Not available.
Octanol/Water Partition Coefficient:	Not available.
Saturated Vapor Concentration:	Not available.

SECTION 10. STABILITY AND REACTIVITY

Stability:	Stable.
Conditions To Avoid:	Acid, base, and oxidizing material.
Incompatibility:	Same as conditions to avoid.
Hazardous Decomposition Products:	Nitrogen oxides, hydrogen chloride, and phosgene may result under fire conditions.
Hazardous Polymerization:	Will not occur.

SECTION 11. POTENTIAL HEALTH EFFECTSAcute Effects:

Eyes:	May cause slight temporary eye irritation.
Skin:	Prolonged or repeated exposure may cause skin irritation. Prolonged or frequently repeated skin contact may cause allergic skin reactions in some individuals. With the dilute mix, no allergic skin reaction is expected. LD ₅₀ (Rabbits) > 2000 mg/kg.
Ingestion:	May cause nausea, abdominal discomfort, vomiting and diarrhea. LD ₅₀ Male rats = 1581 mg/kg; Female rats = 1338 mg/kg.
Inhalation:	Excessive exposure may cause irritation to upper respiratory tract. Signs and symptoms of excessive exposure may be central nervous system effects (due to kerosene).
Subchronic Effects:	None known.
Chronic Effects:	None known.

SECTION 12. ECOLOGICAL INFORMATION

Algal/Lemna Growth Inhibition:	Not known.
Toxicity to Fish and Invertebrates:	Toxic to fish.
Toxicity to Plants:	Not known.
Toxicity in Birds:	Not known.

SECTION 13. DISPOSAL

Do not contaminate lakes, streams, ponds, estuaries, oceans or other waters by discharge of waste effluents or equipment washwaters. Dispose of waste effluents in accordance with state and local waste disposal regulations. Also, chemical additions or other alterations of this product may invalidate any disposal information in this MSDS. Therefore, consult local waste regulators for proper disposal.

SECTION 14. TRANSPORTATION

D.O.T.:	Not D.O.T. Regulated.
Other Shipping Description:	Compounds, Tree or Weed Killing (Herbicide), Liquid. NMFC Item 50320, LTL Class 60

SECTION 15. REGULATORY INFORMATION

CERCLA: None.
SARA TITLE III, Section 313 Toxic Chemicals: None.
PROPOSITION 65 (CA): None.

SECTION 16. OTHER

All information appearing in this document was based on data provided by third party sources and was compiled to comply with the Federal Hazard Communication Standard and the California Hazardous Substances Information and Training Act. The information is believed to be accurate as of the preparation date, but is not warranted as being the final authority in the use of this product. This information does not purport to be legal or medical advice.