

Cleary MATERIAL SAFETY DATA SHEET

SPOTRETE™ F

Page 1 of 4

Please read the entire document. This Material Safety Data Sheet contains important environmental, health and toxicology information for your employees, and anyone who will use, transport, store, dispose of or handle this product. Please make sure this information is given to them. It also contains information to help you meet community right-to-know/emergency response reporting requirements under SARA Title III and many other laws. If you resell this product, this MSDS must be given to the buyer or the information contained herein must be incorporated in your MSDS.

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Spotrete F
EPA REGISTRATION NUMBER(S): 45728-26-1001
CHEMICAL NAME: Tetramethylthiuram disulfide
SYNONYM: Thiram

COMPANY

Cleary Chemical Corporation
178 Ridge Road, Suite A
Dayton, New Jersey 08810

EMERGENCY TELEPHONE NUMBERS

CLEARY CHEMICALS, LLC PROSAR:
M-F 9-5 EST (800) 324-7598
(800) 524-1662 OR CHEMTREC 24 HOUR:
(732) 329-8399 (800) 424-9300

SECTION 2: INFORMATION ON INGREDIENTS

Active Ingredient(s)/ Hazardous Inert Ingredient(s)	% by Wt.	CAS#	ACGIH TLV	OSHA PEL
Tetramethylthiuram disulfide	42	137-26-8		
Inert Ingredients	58			
Indopol			NDA	NDA

SECTION 3: HEALTH HAZARD INFORMATION

Caution

Inhalation: Mist or vapor may cause mucous membrane and respiratory irritation with coughing, choking, labored breathing and lethargy.

Eye Contact: May cause irritation based on a study in rabbits.

Skin Contact: May cause irritation and possible sensitization. May be absorbed through the skin based on animal studies.

Ingestion: May cause systemic poisoning with symptoms of weakness, nausea, diarrhea, confusion, dizziness, delirium, tremor, hallucinations, ataxia, ascending paralysis, hypothermia and peripheral neuropathy (pain, numbness and weakness of extremities). Respiratory paralysis and death may occur.

Chronic Effects of Overexposure: Thiram has been found to be mutagenic in some test systems and to cause adverse reproductive effects in laboratory animals.

Other Toxic Effects: An antabuse-like reaction with flushing, sweating, headache, weakness and hypertension may occur when ethyl alcohol (alcoholic beverages) is ingested following exposure to this material.

SECTION 4: FIRST AID MEASURES

If Inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

If On Skin Or Clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for further treatment advice.

If In 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 eye. Get immediate medical attention.

If Swallowed: If conscious, give 1-2 glasses of water to dilute and induce vomiting. Get immediate medical attention.

Have the product container or label with you when calling a poison control center or doctor, or when going for treatment. For 24-Hour Emergency Assistance Call Chemtrec 1-800-424-9300.

SECTION 5: FIRE AND EXPLOSION INFORMATION

Flash Point (Method): NA

Flammable Limits (vol % in air): NA

Autoignition Temperature: NA

Extinguishing Media: Carbon dioxide, foam, dry chemical, water or water fog.

Special Fire Fighting Procedures: Evacuate area of all non-emergency personnel. Firefighters should wear full emergency equipment and NIOSH approved positive pressure self-contained breathing apparatus.

Fight fire from upwind and cool exposed intact containers and structures with water spray or stream at maximum range. Decontaminate all protective equipment after use, prevent skin contact. This product is toxic to fish. Contain all water run-off with diking.

Unusual Fire and Explosion Hazards: Decomposition products are toxic.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Steps to be Taken in Case Material is Released or Spilled: Wear appropriate protective clothing to prevent eye and skin contact and appropriate respirator to prevent overexposure. Contain and absorb with inert material, carefully sweep up spilled material and collect into closeable container for proper disposal. This material is toxic to fish. Prevent runoff to storm sewers and ditches leading to natural waterways.

SECTION 7: HANDLING AND STORAGE

Precautions to be Taken in Handling and Storing: Store in a well ventilated area in the original sealed containers in a cool dry area not accessible to children or unauthorized persons. Do not store in a manner where cross-contamination with other pesticides, food or feed could occur.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective Clothing: Long sleeve shirt, long pants, or coveralls, resistant shoes with socks. Chemical resistant gloves are required for all operations where contact with Sportete is possible.

Eye Protection: Non venting chemical safety goggles or face shield are required if full face-piece respirator is not worn. Do not wear contact lenses during use of this product.

Ventilation: Use product in a well ventilated area.

Respiratory Protection: Use OSHA and/or NIOSH approved full-face respirator in confined areas where ventilation is limited. A half-face device is acceptable, provided eye protection measures indicated above are followed.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Opaque liquid suspension
Boiling Point:	Approx. 220 F
Vapor Pressure (@20°mm Hg):	Negligible
Melting Point:	NA
Freezing Point:	32 F
Evaporation Rate	NA
Solubility in Water:	30 mg/L at room temperature
% VOC:	Approx. 47 %
Specific Gravity:	1.15

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable

Incompatible Materials: Acids, oxidizing agents, copper.

Conditions to Avoid: Extreme heat

Hazardous Decomposition: Decomposed by excessive heat and acids. Heating to decomposition generates carbon disulfide and oxides of carbon, nitrogen and sulfur. Acid decomposition may evolve carbon disulfide and hydrogen sulfide.

Hazardous Polymerization: NA

SECTION 11: TOXICOLOGICAL INFORMATION

Oral (Acute) LD50: > 2400 mg/kg (rat)

Dermal (Acute) LD50: > 5000 mg/kg (rat)

Inhalation (acute): > 4.42 mg/L 4 hour (rat)

Chronic/ Subchronic: This product is not listed as a carcinogen or suspect carcinogen by NTP, IARC or OSHA. This product may cause skin sensitization.

Mutagenicity/Teratogenicity/Reproductive Toxicity: Thiram is mutagenic in some test systems and has been found to cause adverse reproductive effects and teratogenic effects in laboratory animals.

SECTION 12: ECOLOGICAL INFORMATION

This pesticide is toxic to fish. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water by disposal of equipment washwaters. Do not apply, allow to drift, or drain or flush equipment onto non-target areas.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Methods: Improper disposal of excess pesticide, spray mixture or rinsate is a violation of federal law. If these wastes cannot be disposed of by intended use according to label instructions, contact the appropriate agency in your state or the nearest EPA Regional Office for guidance.

SECTION 14: TRANSPORTATION INFORMATION**DOT Shipping Description:** Environmentally hazardous substance, Liquid, NOS (Thiram)**DOT Hazard Classification:** Class 9 (miscellaneous hazard)**UN Identification Number:** UN 3082**OSHA Hazard Classification:** Irritant, toxic, target organ effect, sensitizer**Reportable Quantity:** 10 lbs. active material (13.3 lbs. product)**Hazardous Substance:** Thiram**DOT Label Requirements:** Class 9**SECTION 15: REGULATORY INFORMATION****EPA SARA Title III Data:****Acute:** Yes**Chronic:** Yes**Fire:** No**Reactive:** No**SECTION 16: OTHER INFORMATION**

Please note: Cleary Chemicals, LLC believes that the information and recommendations contained herein are accurate as of the date hereof. The information provided herein applies only to the specific product designated and may not be valid where said product is used in combination with any other material or in any process. It is the users responsibility to determine the suitability of the information for their purposes. No warranty of fitness for any particular purpose, warranty of merchantability, or any other warranty, expressed or implied, is made concerning the information provided.

Reason for issue:	MSDS Update
Prepared by:	Rick Fletcher
Effective date:	04/04/12
Replaces:	02/95
Document ID:	4322 M