



# MATERIAL SAFETY DATA SHEET

## THIRAM 75WP

**Version:** 1.2  
**Date of Issue:** 06/16/2006  
**Date printed:** 07/01/2006

---

### 1. PRODUCT AND COMPANY IDENTIFICATION

---

**Product name :** THIRAM 75WP

**Chemical name:** Thioperoxydicarbonic diamide, tetramethylthiram

**Use of substance/preparation:** Fungicide  
**Supplier:** Chemtura Canada Co./Cie  
25 ERB STREET  
Elmira, Ontario N3B 3A3 Canada

**Manufacturer:** Chemtura USA Corporation  
199 Benson Road  
Middlebury, CT 06749 USA

**Emergency telephone number:** 866-744-3060 (Canada)  
CANUTEC (24 hours) 613-996-6666  
For additional emergency telephone numbers see section 16 of the Safety Data Sheet.

**Environmental, Health and Safety Department:** 866-430-2775

---

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

---

INGREDIENT	% BY WEIGHT
Thiram CAS# 137-26-8	75
Free Silica (Quartz) CAS# 14808-60-7	<= 0.3

#### WHMIS CLASSIFICATION

This product is registered under the Pest Control Products Act and is therefore exempt from WHMIS supplier labeling and MSDS requirements. Please read entire MSDS and product label for safety precautions.

#### CPR Compliance

This product has been classified with the hazard criteria of the CPR, and the MSDS contains all the information required by CPR.

---

### 3. HAZARDS IDENTIFICATION

---

#### EMERGENCY OVERVIEW

##### WARNING!

MAY BE IRRITATING TO RESPIRATORY SYSTEM, SKIN AND EYES.

MAY CAUSE SKIN SENSITIZATION.

MAY BE HARMFUL IF INHALED, SWALLOWED, OR ABSORBED THROUGH SKIN.

EXPOSURE CAN RESULT IN AN ADVERSE REACTION WITH THE CONSUMPTION OF ALCOHOLIC BEVERAGES.



**THIRAM 75WP**

**Version:** 1.2  
**Date of Issue:** 06/16/2006  
**Date printed:** 07/01/2006

---

**4. FIRST AID MEASURES**

---

**Swallowing**

If patient is fully conscious, give two glasses of water. Induce vomiting. Obtain medical attention immediately. Do not give milk, oily products, fat or alcohol. Do not give anything by mouth to an unconscious person.

**Inhalation**

Remove to fresh air. Give artificial respiration if not breathing. Obtain medical attention.

**Skin contact**

Wash skin with soap and water. Remove contaminated clothing. Wash clothing before re-use. Obtain medical attention if irritation persists.

**Eye contact**

Immediately flush eyes with water and continue washing for at least 15 minutes. Obtain medical attention.

---

**5. FIRE-FIGHTING MEASURES**

---

**Flash point:** 89 °C

**Special fire fighting procedures**

Do not discharge extinguishing waters into streams, rivers and lakes.

**Special protective equipment for firefighters**

Body covering protective clothing, full "turn-out" gear.  
Self-contained breathing apparatus.

**Extinguishing media**

**Suitable:**           **Large fires:**  
                          - alcohol-type foam or universal-type foams  
                          **Small fires:**  
                          - CO2  
                          - dry chemical  
                          - water spray

**Unsuitable:**       - water jets

---

**6. ACCIDENTAL RELEASE MEASURES**

---

**Personal precautions**

Wear suitable protective equipment., Avoid contact with eyes and skin.

**Environmental precautions**

Prevent from entering sewer system, surface water or soil.

**Methods for cleaning up**

Sweep up and collect in a suitable container for disposal.  
Avoid dust formation.  
Observe government regulations.

---

**7. HANDLING AND STORAGE**

---

**HANDLING**

**Handling precautions**

Do not get in eyes, on skin, on clothing., Do not swallow., Avoid dispersion of dust to reduce fire and explosion potential., Do not eat, drink or smoke when handling.

**STORAGE**

**Storage requirements**

Store in a cool, dry place., Store in closed original drums.



# MATERIAL SAFETY DATA SHEET

## THIRAM 75WP

**Version:** 1.2  
**Date of Issue:** 06/16/2006  
**Date printed:** 07/01/2006

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### EXPOSURE LIMIT VALUES

Consult local authorities for acceptable provincial values.

Component	Country	Type	Value	Remark
Thiram		TLV-TWA	1 ml/m3	
	Alberta, Canada		1 mg/m3	
	Quebec, Canada		5 mg/m3	
Free Silica (Quartz)		ACGIH - respirable dust	0.05 mg/m3	Toxicity to reproduction/fertility: CANCER HAZARD A2
		OSHA - respirable dust	0.1 mg/m3	TWA
		OSHA - total dust	0.3 mg/m3	TWA

No other exposure limits have been established

#### PERSONAL PROTECTION

##### Respiratory protection

In the absence of engineering controls sufficient to maintain airborne concentrations below recommended occupational exposure limit values, appropriate respiratory protection should be utilized. The determination of appropriate respiratory protection is best performed on a case by case basis, taking into consideration the exposure conditions of the particular operation. Use an approved full-face air-purifying respirator. For emergency and other conditions where the exposure limit may be greatly exceeded, use an approved positive-pressure self-contained breathing apparatus. The respirator manufacturer should be consulted to ensure that the air-purifying cartridges utilized will provide adequate protection for the exposure conditions and period of wear concerned.

##### Hand protection / protective gloves

Chemical resistant protective gloves

##### Eye protection

Safety glasses with side shields.

##### Skin protection

Wear protective clothing, such as long sleeves to minimize skin contact.

#### ENGINEERING CONTROLS

##### Ventilation

Apply local exhaust ventilation at points of dust generation.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### APPEARANCE

Physical state Solid  
Color Pink  
Odor Characteristic

#### OTHER PROPERTIES

Boiling point Not available  
Melting point Not available  
Specific gravity (H2O=1) Not available  
Flash point 89 °C  
Method: Cleveland open cup ASTM D 92



# MATERIAL SAFETY DATA SHEET

## THIRAM 75WP

**Version:** 1.2  
**Date of Issue:** 06/16/2006  
**Date printed:** 07/01/2006

**Autoignition temperature** Not available

---

### 10. STABILITY AND REACTIVITY

---

---

### 11. TOXICOLOGICAL INFORMATION

---

<u>Component data</u> Thiram Acute toxicity - Swallowing:	LD50 - Rat Result: 2.6 g/kg
<u>Component data</u> Thiram Acute toxicity - Skin absorption:	LD50 - Rabbit Result: > 2.0 g/kg
<u>Component data</u> Thiram Acute toxicity - Inhalation:	LC50 - Rat Result: 4.42 mg/l
<u>Component data</u> Thiram Skin irritation - Skin contact:	Species: Rabbit Result: Slight
<u>Component data</u> Thiram Eye irritation - Eye contact:	Species: Rabbit Result: Moderate irritation
<u>Component data</u> Thiram Sensitization:	Species: Guinea pigs Result: Positive

---

### 12. ECOLOGICAL INFORMATION

---

<u>Component ecotoxicology</u> Thiram <u>Acute toxicity fish:</u>	LC50 - Rainbow trout (Oncorhynchus mykiss) Result: 0.128 mg/l Exposure time: 96 h
<u>Component ecotoxicology</u> Thiram <u>Acute toxicity fish:</u>	LC50 - Bluegill (Lepomis macrochirus) Result: 0.0445 mg/l Exposure time: 96 h
<u>Component ecotoxicology</u> Thiram <u>Acute toxicity to aquatic invertebrates:</u>	LC50 - Water flea (Daphnia magna) Result: 0.21 ppm Exposure time: 48 h



# MATERIAL SAFETY DATA SHEET

## *THIRAM 75WP*

**Version:** 1.2  
**Date of Issue:** 06/16/2006  
**Date printed:** 07/01/2006

---

### 13. DISPOSAL CONSIDERATIONS

---

**General:** Avoid discharge to sewers and natural waters., Incinerate in a furnace where permitted under appropriate Federal, State, and local regulations.

**Non-cleaned packages**

Empty drums should be decontaminated and either passed to an approved drum reconditioner or destroyed., Containers that cannot be cleaned must be treated as waste.

---

### 14. TRANSPORT INFORMATION

---

**TDG - Canada**

**Shipping Name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
**Class:** 9  
**UN ID #:** UN 3077  
**Packing group:** III

**IMDG Classification**

**Proper shipping name:** Environmentally hazardous substance, solid, n.o.s.  
**Class:** 9  
**Subsidiary risk:** marine pollutant  
**UN ID #:** UN 3077  
**Packing group:** III

**ICAO Classification**

**Proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
**Class:** 9  
**UN ID #:** UN 3077  
**Packing group:** III

---

### 15. REGULATORY INFORMATION

---

**WHMIS CLASSIFICATION**

This product is registered under the Pest Control Products Act and is therefore exempt from WHMIS supplier labeling and MSDS requirements. Please read entire MSDS and product label for safety precautions.

**CPR Compliance**

This product has been classified with the hazard criteria of the CPR, and the MSDS contains all the information required by CPR.

**CHEMICAL INVENTORY**

**Canada:** All substances in this product are exempt from the DSL as this product is registered under the Pest Control Products Act., PCP# 27556

**United States:** This product is on the TSCA inventory.

---

### 16. OTHER INFORMATION

---

**FURTHER INFORMATION**

MAY BE ON THE INVENTORY LIST BUT NOT NECESSARILY REGISTERED, (Korea, China, New Zealand) CONSULT REGULATORY SPECIALIST.



# MATERIAL SAFETY DATA SHEET

## *THIRAM 75WP*

Version: 1.2  
Date of Issue: 06/16/2006  
Date printed: 07/01/2006

STP	Standard temperature and pressure
W/W	Weight/Weight

Copyright 2006 Chemtura Canada Co./Cie

THE OPINIONS EXPRESSED HEREIN ARE THOSE OF QUALIFIED EXPERTS WITHIN CHEMTURA CORPORATION. WE BELIEVE THAT THE INFORMATION CONTAINED HEREIN IS CURRENT AS OF THE DATE OF THIS SAFETY DATA SHEET. SINCE THE USE OF THIS INFORMATION AND OF THESE OPINIONS AND THE CONDITIONS OF USE OF THIS PRODUCT ARE NOT WITHIN THE CONTROL OF CHEMTURA CORPORATION, IT IS THE USER'S OBLIGATION TO DETERMINE THE CONDITIONS OF SAFE USE OF THE PRODUCTS.