




## Mixslab® TMTD

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION	
Manufacturer Shandong Yanggu Huatai Chemical Co., LTD No.217, Qinghexi Road Yanggu County, Shandong, China 252300	Emergency Contact Chemtrec: 1-800-424-9300 (USA) (1)330-542-8400 (outside USA)
Trade Name(s): Mixslab® TMTD 75	Chemical Name: Tetramethylthiuram disulfide
Relevant identified uses of the substance or mixture and uses advised against: No further relevant information available.	Application of the substance/the preparation: Rubber chemical processing.
Issued By: Sovereign Chemical Company (Distributor) 4040 Embassy Parkway, Suite 190 Akron, Ohio 44333	Date of Issue: September 1, 2025

## 2. HAZARDS IDENTIFICATION

### *Classification of the substance or mixture*

Information in accordance with US 29 CFR 1910.1200 (Hazcom 2012), Regulation (EC) No 1272/2008, 1907/2006/EC (REACH), and GHS

Hazard Pictograms (CLP)	:  GHS07,  GHS08,  GHS09
Signal Word	: Warning
Hazard statements (CLP)	: <ul style="list-style-type: none"> <li>H302 – Harmful if swallowed, Category 4</li> <li>H315 - Causes skin irritation, Category 2</li> <li>H317 – May cause an allergic skin reaction, Category 1</li> <li>H319 – Causes serious eye irritation, Category 2</li> <li>H332 – Harmful if inhaled, Category 4</li> <li>H373 – Causes damage to organs through prolonged or repeated exposure, Category 2</li> <li>H410 – Very toxic to aquatic life with long lasting effects, Category 1</li> </ul>
Precautionary statements (CLP)	: <ul style="list-style-type: none"> <li>P264 - Wash skin thoroughly after handling.</li> <li>P270 - Do not eat, drink or smoke when using this product.</li> <li>P301 + P312 - IF SWALLOWED: call a POISON CENTER or doctor/physician IF you feel unwell.</li> <li>P330 – Rinse mouth.</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>P302 + P352 - IF ON SKIN: wash with plenty of soap and water.</li> <li>P332 +P313 - SKIN irritation occurs: Get medical advice/attention.</li> <li>P362 - Take off contaminated clothing and wash before reuse.</li> <li>P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.</li> <li>P272 - Contaminated work clothing should not be allowed out of</li> </ul>

the workplace.

P333 + P313 - IF SKIN irritation or rash occurs: Get medical advice/attention.

P363 - Wash contaminated clothing before reuse.

P305 + P351+ P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+ P313P - IF eye irritation persists: Get medical advice/attention.

P304 + P340 - IF INHALED: Remove victim to fresh air and Keep at rest in a comfortable position for breathing.

P312 - Call a POISON CENTER or doctor/physician if you feel unwell.

P260 - Do not breathe dust/fume/gas/mist/vapors/spray.

P314 - Get medical advice/attention if you feel unwell.

P273 - Avoid release to the environment.

P391 - Collect spillage. Hazardous to the aquatic environment.

P273 - Avoid release to the environment

Results of PBT and vPvB Tests : Not applicable

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Chemical Name	CAS No	EC No	Weight %	Classification
Tetramethylthiuram disulfide	137-26-8	205-286-2	50-100%	H302 – Harmful if swallowed, Category 4 H315 - Causes skin irritation, Category 2 H317 – May cause an allergic skin reaction, Category 1 H319 – Causes serious eye irritation, Category 2 H332 – Harmful if inhaled, Category 4 H373 – Causes damage to organs through prolonged or repeated exposure, Category 2 H410 – Very toxic to aquatic life with long lasting effects, Category 1

#### 4. FIRST AID MEASURES

*Description of first aid measures*

First-aid measures general:	Symptoms of poisoning may even occur after several hours; therefore, medical observation for at least 48 hours after the accident. Immediately remove any clothing soiled by the product.
First-aid measures after inhalation:	Supply fresh air. Seek immediate medical advice.
First-aid measures after skin contact:	Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor
First-aid measures after eye contact:	Remove contact lenses if worn. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
First-aid measures after ingestion:	Rinse out mouth and then drink plenty of water. Do not induce vomiting; call for medical help immediately.

*Most important symptoms and effects, both acute and delayed*

Symptoms effects:	Coughing. Dizziness. Headache. Disorientation. Irregular cardiac activity. Condition may deteriorate with alcohol consumption.
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*Indication of any immediate medical attention and special treatment needed*

General:	Consult literature for specific antidotes. If swallowed, gastric irrigation. If necessary, oxygen respiration treatment. Treat skin and mucous membrane with antihistamine and corticoid preparations. In cases of irritation to the lungs, initial treatment with corticoid steroid inhalants. Medical supervision for at least 48 hours.
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#### 5. FIRE FIGHTING MEASURES

*Extinguishing media*

Suitable extinguishing agents:	In case of fire, use water spray (fog), foam, dry chemical or CO <sub>2</sub> .
Unsuitable extinguishing agents:	Not available

*Special hazards arising from the substance or mixture*

General:	Formation of toxic gases is possible during heating or in case of fire.
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*Advice for firefighters*

General: Fire-fighters should wear appropriate protective equipment.

**6. ACCIDENTAL RELEASE MEASURES***Personal precautions, protective equipment and emergency procedures*

General: Use respiratory protective device against the effects of fumes/dust/aerosol. Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation.

*Environmental precautions*

General: Inform respective authorities in case of seepage into water course or sewage system. Do not allow sewers/ surface or ground water to enter.

*Methods and material for containment and cleaning up*

General: Pick up mechanically. Dispose contaminated material as waste according to item 13.

*Reference to other sections*

General: See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for information on disposal.

**7. HANDLING AND STORAGE***Precautions for safe handling*

Protective measures: Store in cool, dry place in tightly closed receptacles. Keep away from heat and direct sunlight. Ensure good ventilation/exhaustion at the workplace. Prevent formation of dust. Any unavoidable deposit of dust must be regularly removed. Information about fire - and explosion protection. Dust can combine with air to form an explosive mixture. Keep respiratory protective device available. Protect from heat.

*Conditions for safe storage, including any incompatibilities*

Storage: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Separate from oxidizing agents and acids.

*Specific end use(s)*

General: Not applicable

**8. EXPOSURE CONTROLS - PERSONAL PROTECTION**

## Control Parameters

PEL (USA)	5 mg/m <sup>3</sup>
REL (USA)	5 mg/m <sup>3</sup>
TLV (USA)	0.05* mg/m <sup>3</sup> SEN; *as inhalable fraction and vapor
EL (Canada)	1 mg/m <sup>3</sup>
EV (Canada)	1 mg/m <sup>3</sup>

## DNEL /DMEL and PNEC Values

General:

No additional information

## Exposure controls

Appropriate engineering controls:

Handle in accordance with good industrial hygiene and safety practice. Avoid dust generation. Ensure good ventilation and local exhaustion of the working area. Wash hands before breaks and at the end of workday.

Eye/face protection:

Wear appropriate goggles to prevent eye exposure.

Hand protection:

Wear appropriate gloves to prevent skin exposure. In the event of contamination, change protective gloves immediately.

Body protection:

Wear suitable protective clothing to prevent skin exposure.

Respiratory protection:

Avoid breathing dust. In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazard:

Wear suitable protective clothing to prevent heat.

Environmental exposure controls:

Avoid discharge into the environment. According to local regulations, Federal and official regulations.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Form: Granulate or Flakes	Melting Point/Melting Range: 194-266 °C (measured softening point).
Color: Light Yellow	Boiling Point/Boiling Range: >482 °C (>900 °F)

Odor: Petroleum-like.	Octanol/Water Partition Coefficient: Not determined.
Odor threshold: Not determined.	pH Value: Not applicable.
Vapor pressure: Not applicable.	Flash point: >270 °C (>518 °F).
Density at 20 °C: Not determined.	Flammability (solid, gaseous): Product is not flammable.
Relative density: Not determined.	Ignition temperature: Not determined.
Vapor density: Not applicable.	Decomposition temperature: Not determined.
Evaporation rate: Not applicable.	Self-igniting: Not determined.
Solubility in / Miscibility with water: Insoluble.	Danger of explosion: Product does not present an explosion hazard.
Viscosity Dynamic: Not applicable. Kinematic: Not applicable.	Explosion limits Lower: Not determined. Upper: Not determined.

Other information: No further relevant information available.

## 10. STABILITY AND REACTIVITY

### *Reactivity*

The substance is stable under normal storage and handling conditions.

### *Chemical stability*

Thermal decomposition / conditions to be avoided: No decomposition if used and stored according to specifications.

*Possibility of hazardous reactions*

Toxic fumes may be released if heated above the decomposition point. As the product is supplied it is not capable of dust explosion; however, enrichment with fine dust causes risk of dust explosion. Reacts with strong oxidizing agents. Reacts with strong acids.

*Conditions to avoid*

Incompatible materials. High temperatures. Proximity to sources of ignition. Take precautionary measures against static discharges. In the case of dusty organic products, the possibility of a dust explosion should always be considered.

*Incompatible materials*

Keep ignition sources away. Store away from oxidizing agents.

*Hazardous decomposition products*

Sulfur oxides (SO<sub>x</sub>), Nitrogen oxides (NO<sub>x</sub>), Carbon monoxide and carbon dioxide (CO<sub>2</sub>), and hydrogen cyanide (prussic acid)

**11. TOXICOLOGICAL INFORMATION***Information on toxicological effects*

Acute toxicity:	Not classified
Skin corrosion/irritation:	Irritant to skin and mucous membranes
Serious eye damage/irritation:	Irritating effect
Respiratory or skin sensitization:	Sensitizing effect through inhalation is possible by prolonged exposure. Sensitization is possible through skin contact.
Germ cell mutagenicity:	Not classified
Carcinogenicity:	Not classified
Reproductive toxicity:	Not classified
STOT single exposure:	Not classified
STOT multiple exposure:	Not classified
Aspiration hazard:	Not classified

**12. ECOLOGICAL INFORMATION***Toxicity*

Aquatic toxicity:	Toxic for aquatic organisms.
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## *Persistence and degradability*

Information: Not readily biodegradability.

## *Bioaccumulation potential*

Information: May be accumulated in organism.

## *Mobility in soil*

Information: No further relevant information available.

## *Results of PBT and vPVB assessment*

Information: Not applicable.

## *Other adverse effects*

Information: No other adverse effects.

## 13. DISPOSAL CONSIDERATIONS

### *Waste treatment methods*

Methods: Dispose of in accordance with all applicable local and national regulations. Must not be disposed together with household garbage. Do not allow product to reach sewage system. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

## 14. TRANSPORTATION INFORMATION

UN-Number	UN3077
DOT, ADR, IMDG, IATA	
UN proper shipping name:	Environmentally hazardous substances, solid, n.o.s. (thiram)
DOT	
ADR	3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE
IMDG	SOLID, N.O.S (thiram)
IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (thiram), MARINE POLLUTANT
Transport hazard class(es)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (thiram)

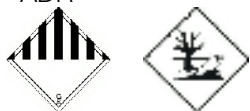


DOT, IMDG, IATA



Class  
Label

ADR



Class  
Label

9 Miscellaneous dangerous substances and articles.  
9

9 (M7) Miscellaneous dangerous substances and articles.  
9

Packing group

DOT

ADR, IMDG, IATA

N/A

III

Environmental hazards

Marine pollutant

Special Marking (ADR)

Special Marking (IATA)

Product contains environmentally hazardous substances:  
thiram.

Yes Symbol (fish and tree)

Symbol (fish and tree)

Symbol (fish and tree)

Special precautions for user

Warning: Miscellaneous dangerous substances and  
articles.

Danger code (Kemler)

90

EMS Number

F-A, S-F.

Transport in bulk according to Annex II  
of MARPOL73/78 and the IBC Code:

Not applicable.

Transport/Additional information

ADR

Limited quantities (LQ

5 kg

Transport category

3

Tunnel restriction code

E

UN "Model Regulation"

UN3077, ENVIRONMENTALLY HAZARDOUS  
SUBSTANCE, SOLID, N.O.S. (thiram), 9, III

## 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance

SARA Section 355 (extremely hazardous substances)	Not listed
SARA Section 313 (Specific toxic chemical listings)	Listed
TSCA (Toxic Substances Control Act)	Listed
Proposition 65 (California)	
Chemicals known to cause cancer	Not listed

Chemicals known to cause reproductive toxicity for females	Not listed
Chemicals known to cause reproductive toxicity for males	Not listed
Chemicals known to cause developmental toxicity	Not listed
Carcinogenic Categories	
IARC (International Agency for Research on Cancer)	Listed
TLV (Threshold Limit Value established by ACGIH)	Listed
NIOSH-Ca (National Institute for Occupational Safety and Health)	Not listed
OSHA (Occupational Safety & Health Administration)	Not listed
Canada	
Canadian Domestic Substances List (DSL)	Listed
Canadian Ingredient Disclosure list (limit 0.1%)	Not listed
Canadian Ingredient Disclosure list (limit 1%)	Listed
REACH	
REACH Candidate List	Not listed
REACH XIV List	Not listed

Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

## 16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.