

WESTERN RESERVE CHEMICAL

4837 DARROW RD. PH# 330-650-2244
STOW, OHIO 44224 Fax# 330-650-2255
CHEMTREC 1-800-424-9300 (USA)

MATERIAL SAFETY DATA SHEET

TMTM

CAS #

97-74-5

1. Product Identifications

Product Name: TMTM
Chemical Name: Tetramethylthiuram monosulfide
Formula: $C_6H_{12}N_2S_3$

2. Physical Description/Properties

Specific Gravity: 1.39
Melting Point (C° Min): 103
PH Value NA
Appearance: light yellow powder or pellets
Odor: Slight Aromatic
Taste: Slight Bitter
Solubility: Soluble in benzene, methylbenzene,
Chloroform, carbon disulfide methylene
chloride, acetone and ethyl acetate, poorly
soluble in ethyl alcohol, insoluble in water.
Volatiles % <0.5
Ash % <0.5
Sieve residue (100 mesh) <0.1

3. Hazard Information

HEALTH WARNING!!

May cause alcohol intolerance (Antabuse Effect) May cause headache,
dizziness, nausea, vomiting, gastrointestinal irritation.

Combustible dust

Keep away from heat, sparks and flame.

Eye irritant-Can cause redness, tearing and swelling.

Skin contact may cause allergic reaction.

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Inhalation may cause upper respiratory irritation. Inhalation may cause alcohol intolerance.

Ingestion of large quantities can cause headache, nausea, vomiting and gastrointestinal distress. May cause alcohol intolerance

4. First Aid Information

- Skin:** Remove contaminated clothing and wash before re-use. Immediately wash contaminated skin with running water.
- Ingestion:** Immediately rinse mouth with water. Induce vomiting only at the instruction of a physician. Seek immediate medical attention.
- Eyes:** Flush with water for 15 minutes. Seek medical attention if irritation persists.
- Inhalation:** Remove person to fresh air. Get immediate medical attention if breathing is difficult or short. Inhalation may cause alcohol intolerance

Note to Physician: Treat symptomatically. Exposure by ingestion, inhalation or skin absorption may cause alcohol intolerance (Antabuse Effect)

5. Handling and Storage

- Storage:** Store in a dry well-ventilated area avoiding direct exposure to sunlight
- Stability in storage:** 3 years from date of manufacture

6. Employee Protection Recommendations

The employee should wear protective clothes and avoid direct physical contact with the product.

- Eye Protection:** Wear chemical safety glasses or goggles
- Hand Protective Requirements:** Wear protective gloves.
- Skin Protective Requirements:** Wear overalls.
- Ventilation:** Local exhaust

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7. Toxicological Information

Low toxicity

LD50 acute oral for rats: 1320mg/kg

LD50 acute skin for rats: >2000mg/kg

8. Fire and Explosion Data

Flash point: Not available

Exposure standard limits: Not available

Flammable

Extinguish Media: Spray water, Carbon Dioxide, foam, sand or dry chemical.

9. Reactivity

Chemical stability: Stable when stored in original container protected from heat and moisture.

Hazardous Polymerization: Does not occur.

Materials to avoid: Strong oxidizers, acids or caustic materials.

Hazardous products of

decomposition: Carbon monoxide, oxides of nitrogen and sulfur.

10. Accidental Release and Disposal

Spills: Sweep and place in closable container. Avoid generation of dust. Wear appropriate protective clothing and safety devices. Do not use water to remove spilled material.

Disposal: Bury waste and empty containers in licensed landfill in adherence to federal, state and local regulations.

11. Transportation Information

DOT Status	Not regulated
DOT shipping name	None
DOT reportable qty. (lbs)	None
ICAO/IATA Status	Not regulated
Proper shipping name	None
UN/NA number	None
IMDG Status	Not regulated
TDG Canada	Not regulated

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12. Regulatory Information

Worldwide Inventory Status

TSCA (USA):	Listed
Canadian DSL:	Listed
Canadian NDSL:	N/A
EINECS/ELINCS (Europe):	Listed
Japanese Inventory (ENCS):	Listed
Korean Chemical Inventory (ECL):	Listed
Australian Chemical Inventories (AICS):	Listed
New Zealand (NZ):	Listed
Philippines (PICCS) Inventory:	Listed
China (CLECS):	Listed

US Regulatory Rules SARA Section 302:	Not Applicable
SARA 311/312 Hazard Categories:	Immediate Delayed
SARA 313 Chemical:	N/A
RCRA Status:	Not a RCRA waste

Other Regulations:

California Proposition 65:	NONE
New Jersey Right-to-Know List:	N/A
Pennsylvania Right-to-Know List:	N/A
Florida Right-to-Know:	N/A
Minnesota Right-to-Know:	N/A
MA Right-to-Know Law:	N/A

Canadian Regulations

WHMIS Hazard Class:	D2B TOXIC MATERIALS/Materials Causing Other Toxic Effects
NPRI:	N/A

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13. Other Information

FDA status 21 CFR **Regulated for use under the following sections of 21CFR: 177.2600. Rubber articles intended for repeated use in food contact. 175.105 Components of adhesives**

HMIS Classification Health 2 Flammability 1 Reactivity 0

Important Note: The information provided is without warranty regarding its accuracy or completeness. The information may not be valid under all conditions. The user has the final responsibility for determining the suitability of the product in a given application.

2/07