

WESTERN RESERVE CHEMICAL

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CHEMTREC NUMBER 1/800-424-9300

MATERIAL SAFETY DATA SHEET

TMTD

CAS #

137-26-8

1. Product Identifications

Product Name: TMTD
Chemical Name: Tetramethylthiuram disulfide
Formula: $C_6H_{12}N_2S_4$

2. Physical Description/Properties

Specific Gravity: 1.42
Melting Point (C° Min): 144
PH Value NA
Appearance: grayish white powder or pellet
Odor: Slight Amine
Taste: Slight Bitter
Solubility: Soluble in benzene, methylbenzene,
Chloroform, carbon disulfide methylene
chloride, acetone and ethyl acetate, partly
soluble in ethyl alcohol. Solubility in water
30mg/liter
Volatiles % <0.5
Ash % <0.3
Sieve residue (100 mesh) <0.3

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3. Hazard Information

Combustible dust

Keep away from heat, sparks and flame.

Eye irritant-Can cause redness, tearing and swelling.

Skin contact may cause allergic reaction.

Inhalation may cause upper respiratory irritation.

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

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. |

5. Handling and Storage

| | |
|-----------------------|--|
| Storage: | Store in a dry well-ventilated area avoiding direct exposure to sunlight |
| Stability in storage: | one year |

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: 1080mg/kg

LD50 acute skin for rats: >7940 mg/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. TMTD is a listed hazardous waste; empty containers may be regulated as a hazardous waste.

11. Transportation Information

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|---------------------------|--|
| DOT Status | Regulated |
| DOT shipping name | RQ,Environmentally Hazardous Substance, solid, n.o.s.,9,UN3077, PGIII, (Thiuram) |
| DOT reportable qty. (lbs) | 10 lbs |
| ICAO/IATA Status | Not regulated |
| Proper shipping name | None |
| UN/NA number | UN3077 |
| IMDG Status | Not regulated |
| TDG Canada | Not regulated |

12. Regulatory Information

| | |
|--------------------------------|----------------------------------|
| TSCA (USA) | Listed |
| Canadian DSL | Listed |
| Canadian NDSL | Not Applicable Listed on the DSL |
| EINECS/ELINCS (Europe) | Listed |
| US Regulatory Rules | |
| SARA Section 302 | Not Applicable/None |
| SARA 311/312 Hazard Categories | Immediate Delayed |
| SARA 313 Chemical | Listed as "Thiram" |
| Other Regulations | |
| California Proposition 65 | None |
| New Jersey Right-to-Know List | Listed |
| Pennsylvania Right-to-Know | Listed |
| Florida Right-to-Know | Listed |
| Minnesota Right-to-Know | Listed |
| MA Right-to-Know Law | Listed |

FDA Status 21 CFR **Regulated for Use under the following sections of 21 CFR: 177.2600. Rubber Articles Intended for Repeated Use in Food Contact 175.105. Components of Adhesives**

Canadian Regulations
WHMIS Hazard Class **D2A Very Toxic Materials D2B Toxic Materials/ Materials Causing Other Toxic Effects**
NPRI **Not Listed (Canada)**

13. Other Information

HMIS Classification Health 2 Flammability 1 Reactivity 0
NFPA Rating Health 1 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.