

# WESTERN RESERVE CHEMICAL

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## MATERIAL SAFETY DATA SHEET

### DTDM

CAS #

**103-34-4**

#### **1. Product Identifications**

Product Name:	DTDM
Chemical Name:	4,4'-Dithio dimorpholine
Formula:	$C_8H_{16}N_2O_2S_2$

#### **2. Physical Description/Properties**

Specific Gravity:	1.35
Melting Point (C° Min):	120
PH Value	NA
Appearance:	White to off white crystal or pellet
Odor:	Slight Amine
Taste:	Slight Bitter
Solubility:	Soluble in benzene, methylbenzene, Chloroform, methylene chloride, acetone and ethylalcohol. Water solubility 0.008g/100ml
Volatiles %	<0.3
Ash %	<0.3

**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. May cause skin defatting.

Inhalation may cause upper respiratory irritation. Irritation of mucous membranes may cause soreness in nose or throat.

Ingestion of large quantities may be harmful: may cause vomiting.

**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

**7. Toxicological Information**

Low toxicity

LD50 acute oral for rats: 4300mg/kg

LD50 acute skin for rats: >5000mg/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, water and acids.

Hazardous products of decomposition: Carbon monoxide, amines hydrogen sulfide and 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

**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

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Australian Chemical Inventories (AICS): Listed  
New Zealand (NZ): Listed  
Phillipines (PICCS) Inventory: Listed  
China (CLECS): Listed

US Regulatory Rules  
SARA Section 302: None Found  
SARA 311/312 Hazard Categories: Immediate Delayed Fire  
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

### **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 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.

12/05