

# SAFETY DATA SHEET

GHS  
United States

## Section 1. Product and company identification

|                              |  |  |
|------------------------------|--|--|
| <b>Product name</b>          | <b>METHYL TUADS® TMTD</b>  | <a href="#"><u>In case of emergency</u></a>                |
| <b>Code</b>                  | 41855  | 1-203-853-1400   |
| <b>Supplier/Manufacturer</b> | Vanderbilt Chemicals, LLC<br>30 Winfield Street<br>Norwalk, CT 06855 | Chemtrec: 1-800-424-9300<br>Outside US:<br>+1-703-527-3887 |
| <b>Chemical name</b>         | Tetramethylthiuram disulfide   |  |
| <b>Synonym</b>               | Thiram   |  |
| <b>Material uses</b>         | Accelerator.   |  |
| <b>Product type</b>          | Powder.  |  |

## Section 2. Hazards identification

|   |  |
|---|--|
| <b>OSHA/HCS status</b>                            | This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).  |
| <b>Classification of the substance or mixture</b> | COMBUSTIBLE DUSTS<br>ACUTE TOXICITY (oral) - Category 4<br>ACUTE TOXICITY (inhalation) - Category 4<br>SKIN CORROSION/IRRITATION - Category 2<br>SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2<br>SKIN SENSITIZATION - Category 1<br>SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 |

### [GHS label elements](#)

#### Hazard pictograms



#### Signal word

Warning

#### Hazard statements

May form combustible dust concentrations in air.  
Harmful if swallowed or if inhaled.  
Causes serious eye irritation.  
Causes skin irritation.  
May cause an allergic skin reaction.  
May cause damage to organs through prolonged or repeated exposure.

### [Precautionary statements](#)

#### Prevention

Wear protective gloves: > 8 hours (breakthrough time): neoprene. Wear eye or face protection: Recommended: splash goggles. Use only outdoors or in a well-ventilated area. Do not breathe dust or mist. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

## Section 2. Hazards identification

|   |  |
|---|--|
| <b>Response</b>                         | Get medical attention if you feel unwell. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. |
| <b>Storage</b>                          | Not applicable.  |
| <b>Disposal</b>                         | Dispose of contents and container in accordance with all local, regional, national and international regulations.  |
| <b>Supplemental label elements</b>      | Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Prevent dust accumulation.   |
| <b>Hazards not otherwise classified</b> | Fine dust clouds may form explosive mixtures with air. Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat.   |

## Section 3. Composition/information on ingredients

**Substance/mixture** Mixture

| Ingredient name              | CAS number | % by weight |
|------------------------------|------------|-------------|
| tetramethylthiuram disulfide | 137-26-8   | >97         |

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

### Description of necessary first aid measures

|                     |   |
|---------------------|---|
| <b>Eye contact</b>  | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.   |
| <b>Inhalation</b>   | Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention following exposure or if feeling unwell. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |
| <b>Skin contact</b> | Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.   |

## Section 4. First aid measures

**Ingestion** Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

**Eye contact** Causes serious eye irritation.

**Inhalation** Harmful if inhaled. Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.

**Skin contact** Causes skin irritation. May cause an allergic skin reaction.

**Ingestion** Harmful if swallowed.

#### Over-exposure signs/symptoms

**Eye contact** Adverse symptoms may include the following:  
pain or irritation  
watering  
redness

**Inhalation** Adverse symptoms may include the following:  
respiratory tract irritation  
coughing

**Skin contact** Adverse symptoms may include the following:  
irritation  
redness

**Ingestion** No specific data.

### Indication of immediate medical attention and special treatment needed, if necessary

**Notes to physician** In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments** General advice for certain dithiocarbamates.  
Biomonitoring possible at chronic exposure: determination of TTCA in the urine at the end of the work day/week.  
Bloodtesting for delayed effects: liver tests, kidney function, thyroid function.

**Protection of first-aiders** No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

**Suitable extinguishing media** In case of fire, use water spray (fog), foam, dry chemical or CO<sub>2</sub>.

**Unsuitable extinguishing media** Do not use water jet.

### Specific hazards arising from the chemical

Fine dust clouds may form explosive mixtures with air.

### Hazardous thermal decomposition products

Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides  
sulfur oxides

### Special protective actions for fire-fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

### Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### Remark(s)

This material may form flammable dust-air mixtures. Potential for a dust explosion may exist. Depending upon conditions, dust may be sensitive to static discharge.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

#### For emergency responders

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

### Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

#### Small spill

Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

#### Large spill

Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 6. Accidental release measures

## Section 7. Handling and storage

### Precautions for safe handling

#### Protective measures

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe dust. Do not ingest. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

#### Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

#### Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. 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. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

| Ingredient name              | Exposure limits  |
|------------------------------|--|
| tetramethylthiuram disulfide | <p><b>ACGIH (United States, 1996).</b><br/>TWA: 1 mg/m<sup>3</sup></p> <p><b>RQMT (United States, 1994).</b><br/>TWA: 5 mg/m<sup>3</sup></p> <p><b>OSHA (United States, 1989).</b><br/>TWA: 5 mg/m<sup>3</sup></p> <p><b>ACGIH TLV (United States, 4/2014). Skin sensitizer.</b><br/>TWA: 0.05 mg/m<sup>3</sup> 8 hours. Form: Inhalable fraction and vapor</p> <p><b>NIOSH REL (United States, 10/2013).</b><br/>TWA: 5 mg/m<sup>3</sup> 10 hours.</p> <p><b>OSHA PEL (United States, 2/2013).</b><br/>TWA: 5 mg/m<sup>3</sup> 8 hours.</p> <p><b>OSHA PEL 1989 (United States, 3/1989).</b><br/>TWA: 5 mg/m<sup>3</sup> 8 hours.</p> |

## Section 8. Exposure controls/personal protection

### Appropriate engineering controls

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

### Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

#### Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Eye/face protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles. If operating conditions cause high dust concentrations to be produced, use dust goggles. Recommended: splash goggles

#### Skin protection

##### Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. > 8 hours (breakthrough time): neoprene

##### Body protection

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: lab coat

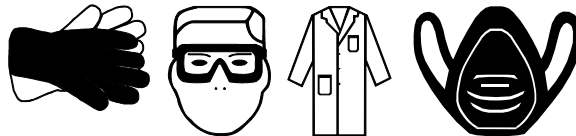
##### Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

##### Respiratory protection

Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Recommended: Dust respirator.

### Personal protective equipment (Pictograms)



## Section 9. Physical and chemical properties

### Appearance

|  |   |
|--|---|
| Physical state                               | Solid. [ Powder]                                  |
| Color  | Beige.  |
| Odor   | Not available.                                    |
| Odor threshold                               | Not available.                                    |
| pH   | Not available.                                    |
| Melting point                                | 142°C (287.6°F)                                   |
| Boiling point                                | Not available.                                    |
| Flash point                                  | Closed cup: 150°C (302°F)                         |
| Burning time                                 | Not available.                                    |
| Burning rate                                 | Not available.                                    |
| Evaporation rate                             | Not available.                                    |
| Flammability (solid, gas)                    | Not available.                                    |
| Lower and upper explosive (flammable) limits | Not available.                                    |
| Vapor pressure                               | Not available.                                    |
| Vapor density                                | Not available.                                    |
| Density                                      | Not available.                                    |
| Relative density                             | Not available.                                    |
| Solubility                                   | Insoluble in the following materials: cold water. |
| Solubility in water                          | Not available.                                    |
| Partition coefficient: n-octanol/water       | Not available.                                    |
| Auto-ignition temperature                    | >400°C (>752°F)                                   |
| Decomposition temperature                    | Not available.                                    |
| SADT   | Not available.                                    |
| Viscosity                                    | Not available.                                    |

## Section 10. Stability and reactivity

|                                    |   |
|------------------------------------|---|
| Reactivity                         | No specific test data related to reactivity available for this product or its ingredients.  |
| Chemical stability                 | The product is stable.  |
| Possibility of hazardous reactions | Under normal conditions of storage and use, hazardous reactions will not occur.   |
| Conditions to avoid                | Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Prevent dust accumulation. |
| Incompatible materials             | Reactive or incompatible with the following materials:<br>oxidizing materials   |

## Section 10. Stability and reactivity

### Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

| Product/ingredient name | Result                | Species | Dose        | Exposure |
|-------------------------|-----------------------|---------|-------------|----------|
| METHYL TUADS® TMTD      | LC50 Inhalation Vapor | Rat     | 3.46 mg/l   | 4 hours  |
|                         | LD50 Dermal           | Rat     | >2000 mg/kg | -        |
|                         | LD50 Oral             | Rat     | 1800 mg/kg  | -        |

#### Irritation/Corrosion

| Product/ingredient name      | Result                   | Species | Score | Exposure                | Observation |
|------------------------------|--------------------------|---------|-------|-------------------------|-------------|
| tetramethylthiuram disulfide | Eyes - Moderate irritant | Rabbit  | -     | 24 hours 100 milligrams | -           |
|                              | Skin - Mild irritant     | Rabbit  | -     | 100 Percent             | -           |

#### Sensitization

| Product/ingredient name      | Route of exposure | Species    | Result      |
|------------------------------|-------------------|------------|-------------|
| tetramethylthiuram disulfide | skin              | Guinea pig | Sensitizing |

#### Mutagenicity

Not available.

#### Carcinogenicity

Not available.

| Product/ingredient name      | OSHA | IARC | NTP |
|------------------------------|------|------|-----|
| tetramethylthiuram disulfide | -    | 3    | -   |

#### Reproductive toxicity

Not available.

#### Conclusion/Summary

Tetramethylthiuram disulfide: Animal data shows developmental effects only at exposure levels producing other toxic effects in the adult animals (136 mg/kg)

#### Teratogenicity

Not available.

#### Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)



## Section 11. Toxicological information

| Name                         | Category   | Route of exposure | Target organs              |
|------------------------------|------------|-------------------|----------------------------|
| tetramethylthiuram disulfide | Category 2 | Oral              | kidneys, liver and thyroid |

### Aspiration hazard

Not available.

### Information on the likely routes of exposure

Routes of entry anticipated: Oral, Dermal, Inhalation.

### Potential acute health effects

#### **Eye contact**

Causes serious eye irritation.

#### **Inhalation**

Harmful if inhaled. Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.

#### **Skin contact**

May be harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction.

#### **Ingestion**

Harmful if swallowed.

### Symptoms related to the physical, chemical and toxicological characteristics

#### **Eye contact**

Adverse symptoms may include the following:  
pain or irritation  
watering  
redness

#### **Inhalation**

Adverse symptoms may include the following:  
respiratory tract irritation  
coughing

#### **Skin contact**

Adverse symptoms may include the following:  
irritation  
redness

#### **Ingestion**

No specific data.

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

##### **Potential immediate effects**

Not available.

##### **Potential delayed effects**

Not available.

#### Long term exposure

##### **Potential immediate effects**

Not available.

##### **Potential delayed effects**

Not available.

### Potential chronic health effects

Not available.

#### **General**

May cause damage to organs through prolonged or repeated exposure. Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

#### **Carcinogenicity**

No known significant effects or critical hazards.

#### **Mutagenicity**

No known significant effects or critical hazards.

## Section 11. Toxicological information

|                              |   |
|------------------------------|---|
| <b>Teratogenicity</b>        | No known significant effects or critical hazards. |
| <b>Developmental effects</b> | No known significant effects or critical hazards. |
| <b>Fertility effects</b>     | No known significant effects or critical hazards. |

### Numerical measures of toxicity

#### Acute toxicity estimates

| Route                        | ATE value  |
|------------------------------|------------|
| Inhalation (dusts and mists) | 4.512 mg/l |

#### **Other information**

Human Experience:  
 May cause cardiac arrhythmia  
 Headache  
 Eczema  
 Dermatitis  
 Nausea  
 Shortness of breath  
 More severe effects if alcohol is consumed

## Section 12. Ecological information

### Toxicity

| Product/ingredient name      | Result                | Species | Exposure |
|------------------------------|-----------------------|---------|----------|
| tetramethylthiuram disulfide | Acute EC50 0.065 mg/l | Algae   | 72 hours |
|                              | Acute EC50 0.38 mg/l  | Daphnia | 48 hours |
|                              | Acute LC50 0.046 mg/l | Fish    | 96 hours |

### Persistence and degradability

Not available.

### Bioaccumulative potential

| Product/ingredient name      | LogP <sub>ow</sub> | BCF  | Potential |
|------------------------------|--------------------|------|-----------|
| tetramethylthiuram disulfide | 1.8                | 3.39 | low       |

### Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** Not available.

**Other adverse effects** No known significant effects or critical hazards.

## Section 13. Disposal considerations

### Disposal methods

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

### United States - RCRA Toxic hazardous waste "U" List





| Ingredient                   | CAS #    | Status | Reference number |
|------------------------------|----------|--------|------------------|
| tetramethylthiuram disulfide | 137-26-8 | Listed | U244             |

Disposal should be in accordance with applicable regional, national and local laws and regulations.

## Section 14. Transport information

| Regulatory information    | UN number | Proper shipping name   | Classes | PG* | Label   | Additional information  |
|---------------------------|-----------|--|---------|-----|---|---|
| <b>DOT Classification</b> | UN3077    | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.<br>(TETRAMETHYLTHIURAMDISULFIDE),<br>RQ | 9       | III | <br>The label consists of two diamond-shaped hazard pictograms. The top one is for 'Hazardous substance' (9) and the bottom one is for 'Environment' (N). | <b>Reportable quantity</b><br>10 lbs. (4.54 kg)<br><br><b>Remarks</b><br>Marine pollutant |
| <b>TDG Classification</b> | UN3077    | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.<br>(TETRAMETHYLTHIURAMDISULFIDE)        | 9       | III | <br>The label consists of two diamond-shaped hazard pictograms. The top one is for 'Hazardous substance' (9) and the bottom one is for 'Environment' (N). | <b>Remarks</b><br>Marine pollutant  |
| <b>ADR/RID Class</b>      | UN3077    | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.<br>(TETRAMETHYLTHIURAMDISULFIDE)        | 9       | III | <br>The label consists of two diamond-shaped hazard pictograms. The top one is for 'Hazardous substance' (9) and the bottom one is for 'Environment' (N). | <b>Remarks</b><br>Marine pollutant  |
|                           |           |  |         |     |   |   |

## Section 14. Transport information

|                       |        |   |   |     |  |                                    |
|-----------------------|--------|---|---|-----|--|------------------------------------|
| <b>IMDG Class</b>     | UN3077 | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.<br>(TETRAMETHYLTHIURAMDISULFIDE) | 9 | III | <br> | <b>Remarks</b><br>Marine pollutant |
| <b>IATA-DGR Class</b> | UN3077 | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.<br>(TETRAMETHYLTHIURAMDISULFIDE) | 9 | III | <br> | <b>Remarks</b><br>Marine pollutant |

PG\* : Packing group

## Section 15. Regulatory information

[United States inventory \(TSCA 8b\)](#) All components are listed or exempted.

[U.S. Federal regulations](#)

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

[SARA 302/304](#)

[Composition/information on ingredients](#)

No products were found.

[SARA 304 RQ](#)

Not applicable.

[SARA 311/312](#)

[Classification](#)

COMBUSTIBLE DUSTS  
ACUTE TOXICITY (oral) - Category 4  
ACUTE TOXICITY (inhalation) - Category 4  
SKIN IRRITATION - Category 2  
EYE IRRITATION - Category 2A  
SKIN SENSITIZATION - Category 1  
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (kidneys, liver, thyroid) - Category 2

[Composition/information on ingredients](#)

| Name                         | %   | Classification  |
|------------------------------|-----|---|
| tetramethylthiuram disulfide | >97 | ACUTE TOXICITY (oral) - Category 4<br>ACUTE TOXICITY (inhalation) - Category 4<br>SKIN IRRITATION - Category 2<br>EYE IRRITATION - Category 2A<br>SKIN SENSITIZATION - Category 1<br>SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (kidneys, liver, thyroid) (oral) - Category 2 |

[SARA 313](#)

|  | Product name                 | CAS number | %   |
|--|------------------------------|------------|-----|
| <b>Form R - Reporting requirements</b> | tetramethylthiuram disulfide | 137-26-8   | >97 |
| <b>Supplier notification</b>           | tetramethylthiuram disulfide | 137-26-8   | >97 |

## Section 15. Regulatory information

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

### State regulations

#### Massachusetts

The following components are listed: THIRAM

#### New York

The following components are listed: Thiram; Bis(dimethylthiocarbamoyl)disulfide

#### New Jersey

The following components are listed: THIRAM; THIOPEROXYDICARBONIC DIAMIDE([(H<sub>2</sub>N)C(S)]<sub>2</sub>S<sub>2</sub>), TETRAMETHYL-

#### Pennsylvania

The following components are listed: THIOPEROXYDICARBONIC DIAMIDE([(H<sub>2</sub>N)C(S)]<sub>2</sub>S<sub>2</sub>), TETRAMETHYL-

#### California Prop. 65

None of the components are listed.

### International regulations

#### Australia inventory (AICS)

All components are listed or exempted.

#### Canada inventory

All components are listed or exempted.

#### China inventory (IECSC)

All components are listed or exempted.

#### Europe inventory

All components are listed or exempted.

#### Japan inventory (ENCS)

All components are listed or exempted.

#### Korea inventory (KECI)

All components are listed or exempted.

#### New Zealand Inventory of Chemicals (NZIoC)

All components are listed or exempted.

#### Philippines inventory (PICCS)

All components are listed or exempted.

#### Taiwan Chemical Substances Inventory (TCSI)

All components are listed or exempted.

## Section 16. Other information

### Hazardous Material Identification System (U.S.A.)

|                  |   |   |
|------------------|---|---|
| Health           | * | 2 |
| Flammability     |   | 1 |
| Physical hazards |   | 0 |
|                  |   |   |

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

### National Fire Protection Association (U.S.A.)



## Section 16. Other information

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

### History

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### Key to abbreviations

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

### References

Not available.

### Information contact

**Vanderbilt Global Services, LLC**  
**Corporate Risk Management**

**1-203-295-2143**

Visit [www.vanderbiltchemicals.com](http://www.vanderbiltchemicals.com) for more information.

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