1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product Name: DIMACIT TMTD

Use of the Substance/Preparation: rubber accelerator, Chemical intermediate

Company/Undertaking Identification:
Taminco, Inc.
Two Windsor Plaza, Suite 411
7540 Windsor Drive
Allentown, PA 18195
(800) 223-3258

Emergency telephone number:
In case of emergency call CHEMTREC 1-800-424-9300
703-527-3887 (International Calls)
For product information call (800) 223-3258

2. HAZARDS IDENTIFICATION

Appearance: off-white powder granules odourless

Emergency Overview:
• WARNING!
• Causes eye irritation
• May be harmful by inhalation, ingestion, skin adsorption
• May cause irritation of respiratory tract
• May cause allergic skin reaction
• May cause damage to organs through prolonged or repeated exposure
• Dust can form an explosive mixture in air

Principal Routes of Exposure:
• Eye contact
• Skin contact
• Inhalation

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thiram</td>
<td>137-26-8</td>
<td>&gt;97</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

Ingestion:
• Call a physician or Poison Control Centre immediately
• Rinse mouth
• Do not induce vomiting without medical advice
• Never give anything by mouth to an unconscious person
• Take the container, label, or product name and Pest Control Registration Number with you when seeking medical attention.
Skin Contact
- Immediately flush skin with running water for 20 minutes or until no traces remain. Wash with soap and water. Remove contaminated clothing immediately.
- Wash contaminated clothing before re-use
- Call a physician or Poison Control Centre immediately

Eye Contact
- Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 20 minutes.
- Call a physician or Poison Control Centre immediately

Inhalation
- Move to fresh air
- If breathing is difficult, give oxygen
- If not breathing, give artificial respiration
- Call a physician or Poison Control Centre immediately

Notes to Physician
- Use of alcoholic beverages may enhance toxic effects

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
- water spray
- carbon dioxide (CO2)
- dry chemical
- foam

Specific methods
- Evacuate area and fight fire from a safe distance
- Keep containers and surroundings cool with water spray
- Wash/Decontaminate removed clothing before reuse
- Dike and collect water used to fight fire
- Water runoff can cause environmental damage
- Do not flush into surface water or sanitary sewer system

Special protective equipment for fire-fighters
- Firefighters and others who may be exposed to products of combustion should wear full fire fighting turn out gear (full Bunker Gear) and self-contained breathing apparatus (pressure demand NIOSH approved or equivalent)

Specific hazards
- Heating or fire can release toxic gas
- Dust can form an explosive mixture in air
- Toxic to fish
- Toxic to wildlife and domestic animals

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions
- Wear personal protective equipment
- Evacuate personnel to safe areas
- Prevent further leakage or spillage if safe to do so

Environmental Precautions
- Prevent product from entering drains
- Do not flush into surface water or sanitary sewer system
- Report spills as required by local and federal regulations.
- Toxic to fish
- Toxic to wildlife and domestic animals
Methods for Clean-up

- Prevent further leakage or spillage if safe to do so
- Sweep up and shovel into suitable containers for disposal
- Avoid dust formation
- Clean contaminated surface thoroughly

7. HANDLING AND STORAGE

Storage

Technical measures/Precautions
- Protect containers from physical damage
- Keep containers tightly closed in a dry, cool and well-ventilated place
- Store in original container
- Keep away from heat
- Keep away from food, drink and animal feedingstuffs
- Do not use on, in or around the home
- Keep away from children
- Do not re-use empty containers

Incompatible products
- acids
- Oxidizing agents
- copper

Handling

Technical measures/Precautions
- Wear personal protective equipment
- Ensure that eyewash stations and safety showers are close to the workstation location
- Handle in accordance with good industrial hygiene and safety practice
- When using, do not eat, drink or smoke
- Toxic to fish
- Toxic to wildlife and domestic animals

Safe handling advice
- Avoid contact with skin, eyes and clothing
- Do not breathe dust
- Wear personal protective equipment
- Use only in well-ventilated areas
- Remove and wash contaminated clothing before re-use
- Wash hands and face before breaks and immediately after handling the product
- Re-open used containers with caution
- Empty containers retain product residue and may be hazardous

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thiram</td>
<td>TWA: 0.05 mg/m³ Inhalable fraction and vapor.</td>
<td>PEL: 5 mg/m³</td>
</tr>
</tbody>
</table>

Respiratory Protection
- In the case of dust or aerosol formation use respirator with an approved filter
- The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace
- Handle in accordance with good industrial hygiene and safety practice

Engineering measures
- Ensure adequate ventilation, especially in confined areas
Personal Protective Equipment

Eye Protection
- Tightly fitting safety goggles

Hand protection
- Rubber gloves
- Impervious gloves
- Request information on glove permeation properties from the glove supplier

Skin Protection
- Wear suitable protective equipment
- Choose body protection according to the amount and concentration of the dangerous substance at the work place

Environmental exposure controls
- Prevent product from entering drains
- Do not contaminate surface water
- Avoid subsoil penetration

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Physical State
- Solid

Color
- Off-white Beige

Odor
- None

Important Health Safety and Environmental Information

Boiling Point/Range
- No data available

Flash Point
- 150°C

Viscosity
- Not applicable

Vapor Pressure
- No data available

pH
- No data available

Oxidizing Properties
- Not applicable

Evaporation Rate
- No information available

Explosion Limits
- Dust can form an explosive mixture in air

Melting Point/Range
- 142 °C

Autoignition Temperature
- > 400°C

10. STABILITY AND REACTIVITY

Stability
- Stable

Conditions to Avoid
- Avoid dust formation
- Keep away from heat
- Strong acids and oxidizing agents
- copper

Hazardous Decomposition Products
- Carbon oxides
- nitrogen oxides (NOx)
- sulphur oxides
- hydrogen sulfide
- Carbon disulfide
11. TOXICOLOGICAL INFORMATION

Eye Contact  
Contact with eyes may cause irritation

Skin Contact  
May cause skin irritation and/or dermatitis  
May cause sensitization by skin contact  
Can be absorbed through skin

Inhalation  
May cause irritation of respiratory tract  
Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough

Ingestion  
Ingestion may provoke the following symptoms: nausea, vomiting, dizziness, pain, weakness, tremors, numbness, central nervous system depression, and neurological disorders.

Chronic Effects  
May cause damage to organs through prolonged or repeated exposure: liver disorders, kidney disorders, stomach/intestinal disorders. Chronic exposure may cause dermatitis. Use of alcoholic beverages may enhance toxic effects.

Carcinogenicity  
The table below indicates whether each agency has listed any ingredient as a carcinogen.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>IARC</th>
<th>ACGIH</th>
<th>OSHA</th>
<th>NTP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thiram</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Product Information

LD50/oral/rat = 1800 mg/kg  
LD50/dermal/rat = > 2000 mg/kg  
LC50/inhalation/4h/rat = 3.46 mg/l  
Eye irritation  
Irritating to eyes  
Skin irritation  
Non-irritating to the skin  
Sensitization  
May cause sensitization by skin contact  
Target Organ Effects  
Kidney, Liver, Thyroid  
Mutagenic Effects  
Did not show mutagenic effects in animal experiments  
Reproductive toxicity  
Did not show teratogenic effects in animal experiments  
Carcinogenic effects  
Did not show carcinogenic effects in animal experiments  

Central nervous system  
dizziness
12. ECOLOGICAL INFORMATION

Ecotoxicity

Component Information
active ingredient

Toxicity to fish
LC50 : 0.046 - 1.20mg/l

EC50/48h/daphnia =
> 0.2 mg/l

EC50/120h/algae =
0.14 mg/l

Toxicity to bacteria
IC50 : 3.11 mg/l (3 h)

Mobility

Koc = 2245 - 24526

Persistence and Degradability

Degradation half life
after 2-7 days

Bioaccumulative Potential

minimum

13. DISPOSAL CONSIDERATIONS

Waste disposal methods
Dispose of in accordance with local regulations

Contaminated Packaging
Empty containers should be taken for local recycling, recovery or waste disposal. Do not re-use empty containers.

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name
UN3077, Environmentally Hazardous Substance, Solid, N.O.S. (Thiram), 9, PG III, RQ

Hazard Class
9

UN-No
UN3077

Packing Group
PGIII

Reportable Quantity (RQ)
10 lbs. (4.54 kg.)

Marine Pollutant
Yes

Labelling
Class 9

IMDG/IMO

Proper Shipping Name
UN3077, Environmentally Hazardous Substance, Solid, N.O.S. (Thiram), 9, PG III, RQ Marine pollutant

Hazard Class
9

UN-No
UN3077

Packing Group
PGIII

Marine Pollutant
Yes

Labelling
Class 9

IATA
15. REGULATORY INFORMATION

International Inventories

NOTE: X = Listed

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>TSCA</th>
<th>EINECS</th>
<th>DSL</th>
<th>ENCS</th>
<th>MITI</th>
<th>AICS</th>
<th>PICCS</th>
<th>IECSC</th>
<th>KECL</th>
<th>NZIoC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thiram</td>
<td></td>
<td>205-286-2</td>
<td>X</td>
<td>X</td>
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<td></td>
<td></td>
<td></td>
<td>97-1-315</td>
<td>KE-33632</td>
</tr>
</tbody>
</table>

OSHA HAZARD CLASSIFICATION:
Irritant Sensitizer Target Organ Effects

SARA 311/312 Hazardous Categorization
Acute Health Hazard, Chronic Health Hazard

SARA TITLE III SECTION 313 INFORMATION:
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

NOTE: X = Listed

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>de minimus %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thiram</td>
<td>X</td>
</tr>
<tr>
<td>137-26-8</td>
<td></td>
</tr>
</tbody>
</table>

CERCLA Hazardous Substances
This product does not contain any RQs or TPQs under this regulation.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>TPQ</th>
<th>RQ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thiram</td>
<td></td>
<td>10 lbs (4.54 kg).</td>
</tr>
<tr>
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</tbody>
</table>

State Right-to-Know

NOTE: X = Listed

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>PA</th>
<th>NJ</th>
<th>MA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thiram</td>
<td>X</td>
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<td>X</td>
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</tr>
</tbody>
</table>

California Proposition 65
This product does not contain any Proposition 65 chemicals.

WHMIS Hazard Class
D2B Toxic materials

Canadian Environmental Protection Act
This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.
16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>HMIS</th>
<th>Health</th>
<th>Flammability</th>
<th>Physical Hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>NFPA</td>
<td>Health</td>
<td>Fire</td>
<td>Instability</td>
</tr>
</tbody>
</table>

Legend: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

Literary Reference

-Taminco Proprietary Studies

Disclaimer: The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet