

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

Product Identifier

Product Name DIMACIT TMTD
REACH Registration Number 01-2119492301-45-0000

Use of the Substance/Mixture **Identified uses**

rubber accelerator
Chemical intermediate

Manufacturer or supplier's details

Company/Undertaking Identification **Address**

Taminco BVBA
Pantserschipstraat 207
9000 GENT
BELGIUM
MSDS_ASC@taminco.com
(+32) 9 254 14 11
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E-mail address
Telephone
Telefax

Emergency Telephone Number

Emergency Telephone Number (+32) 9 254 10 36

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Xn: R20/R22 - R48/22
Xi: R36/38 - R43
N: R50/53

REGULATION (EC) No 1272/2008

Classification of the substance or mixture	Acute tox: Cat. 4; Acute tox: Cat. 4; STOT RE: Cat. 2; Eye irritation: Cat. 2; Skin irritation: Cat. 2; Skin sensitization: Cat. 1; Aquatic acute: Cat.1; Aquatic chronic: Cat. 1; M-factor: 10 H332, H302, H373, H319, H315, H317, H400, H410
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Precautionary Statement - Prevention	P261 - Avoid breathing dust/fume/gas/mist/vapors/spray P271 - Use only outdoors or in a well-ventilated area P264 - Wash face, hands and any exposed skin thoroughly after handling P270 - Do not eat, drink or smoke when using this product P280 - Wear protective gloves/protective clothing/eye protection/face protection P272 - Contaminated work clothing should not be allowed out of the workplace P273 - Avoid release to the environment P391 - Collect spillage P501 - Dispose of contents/container to an approved incineration plant
Precautionary Statement - Response	P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing P312 - Call a POISON CENTER or doctor/physician if you feel unwell P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell P330 - Rinse mouth P264 - Wash face, hands and any exposed skin thoroughly after handling P280 - Wear protective gloves/protective clothing/eye protection/face protection P302 + P352 - IF ON SKIN: Wash with plenty of soap and water P321 - Specific treatment (see supplemental first aid instructions on this label) P332 + P313 - If skin irritation occurs: Get medical advice/attention P362 - Take off contaminated clothing and wash before reuse P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P337 + P313 - If eye irritation persists: Get medical advice/attention P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention P363 - Wash contaminated clothing before reuse P260 - Do not breathe dust/fume/gas/mist/vapors/spray P314 - Get medical advice/attention if you feel unwell P501 - Dispose of contents/container to an approved incineration plant
Precautionary Statement - Storage	None
Precautionary Statement - Disposal	P501 - Dispose of contents/container to an approved incineration plant

Label elements

Product Name

DIMACIT TMTD

Hazard pictograms



Signal Word

Warning

Hazard Statements

- H332 - Harmful if inhaled
- H302 - Harmful if swallowed
- H373 - May cause damage to organs through prolonged or repeated exposure
- H319 - Causes serious eye irritation
- H315 - Causes skin irritation
- H317 - May cause an allergic skin reaction
- H410 - Very toxic to aquatic life with long lasting effects

Precautionary Statements

- P280 - Wear protective gloves/protective clothing/eye protection/face protection
- P273 - Avoid release to the environment
- P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing
- P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
- P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P501 - Dispose of contents/container to an approved incineration plant

Other hazards

PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)
This substance is not considered to be very persistent nor very bioaccumulating (vPvB)

Other hazards which do not result in classification

Risk of dust explosion
Use of alcoholic beverages may enhance toxic effects

For the full text of the R phrases mentioned in this Section, see Section 16

3. COMPOSITION/INFORMATION ON INGREDIENTS

Product Type Mixture

Haz/Non-haz

Chemical Name	CAS-No	Weight %	EINECS	Registration number
Thiram	137-26-8	>97	Listed	01-2119492301-45-0000

4. FIRST AID MEASURES

FIRST AID MEASURES

General Advice If symptoms persist, call a physician. Show this material safety data sheet to the doctor in attendance. Use of alcoholic beverages may enhance toxic effects. In case of allergic reaction after exposure, any future exposure must be avoided.

Eye Contact In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice
Remove contact lenses
If eye irritation persists, consult a specialist

Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes Soap If skin irritation persists, call a physician Wash contaminated clothing before re-use Thoroughly clean shoes before reuse
Inhalation	Move to fresh air P340 - Remove to fresh air and keep at rest in a position comfortable for breathing If breathing is difficult, give oxygen If not breathing, give artificial respiration Consult a physician
Ingestion	Clean mouth with water and afterwards drink plenty of water Immediate medical attention is required Do not induce vomiting Treat symptomatically

Most important symptoms and effects, both acute and delayed

- Irritating to eyes and skin
- R43 - May cause sensitization by skin contact
- High gas, vapor, mist, or dust concentrations may be harmful if inhaled
- H373 - May cause damage to organs through prolonged or repeated exposure
- Target Organ Systemic Toxicant - Repeated exposure

Indication of immediate medical attention and special treatment needed

- General advice for dithiocarbamates
- Biomonitoring possible at chronic exposure: determination of TTCA in the urine at the end of the workday/week.
- Bloodtesting for delayed effects: liver tests, kidney function, thyroid function

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

- water spray
- dry chemical

Extinguishing media which must not be used for safety reasons

- high volume water jet

Specific Hazards Arising from the Chemical

Specific hazards

- Combustible material
- Dust may form explosive mixture in air
- Heating or fire can release toxic gas
Carbon monoxide
Sulphur oxides
Nitrogen oxides (NOx)

Specific methods

- Cool containers / tanks with water spray
- Keep product and empty container away from heat and sources of ignition
- Do not flush into surface water or sanitary sewer system
- Prevent product from entering drains
- Collect contaminated fire extinguishing water separately. This must not be discharged into drains

Protective Equipment and Precautions for Firefighters

Wear full protective clothing and self-contained breathing apparatus

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

- Avoid contact with skin, eyes and clothing
- Evacuate personnel to safe areas
- Keep people away from and upwind of spill/leak
- Wear suitable protective clothing, gloves and eye/face protection
- Wear respiratory protection

Environmental precautions

- Remove immediately adhering matter
- Prevent product from entering drains
- Do not flush into surface water or sanitary sewer system

Methods and materials for containment and cleaning up

- Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container
- Do not flush with water
- Avoid dust formation
- Use a suitable vacuum cleaner
- Use explosion-proof equipment

7. HANDLING AND STORAGE

Precautions for safe handling

- Take measures to prevent the build up of electrostatic charge
- Use only in area provided with appropriate exhaust ventilation
- Use spark-proof tools and explosion-proof equipment
- Avoid dust formation
- Avoid contact with skin, eyes and clothing
- Wear personal protective equipment
- Do not breathe vapours/dust
- Use only in an area equipped with a safety shower
- Ensure that eyewash stations and safety showers are close to the workstation location
- Do not eat, drink or smoke when using this product
- Wash hands after handling
- Remove contaminated clothing and protective equipment before entering eating areas

Conditions for safe storage, including any incompatibilities

- In accordance with local and national regulations
- Keep in a dry, cool place
- Do not store near acids
- Do not store together with oxidizing and self-igniting products
- Use spark-proof tools and explosion-proof equipment
- Keep away from heat and sources of ignition

Specific end uses

No data available yet

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	EU	Japan
Thiram	TWA: 0.05 mg/m ³ Inhalable fraction and vapor.		

Exposure controls

Engineering Controls

- Local exhaust

Personal Protective Equipment

Eye/face Protection

- Tightly fitting safety goggles
- Face-shield

Skin Protection

- Wear suitable protective equipment

Hand Protection

- The selected protective gloves have to satisfy the specifications of EU Directive 89/689/EEC and the standard EN 374 derived from it
- The suitability for a specific workplace should be discussed with the producers of the protective gloves

Respiratory Protection

- In accordance with local and national regulations
- In case of insufficient ventilation wear suitable respiratory equipment
Suitable mask with particle filter P3 (European Norm 143)
- self-contained breathing apparatus (EN 133)
(in case of higher concentration)

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
Partition coefficient: n-octanol/water	log Pow
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
Density	No data available
Autoignition Temperature	> 400°C

10. STABILITY AND REACTIVITY

Reactivity

- Reactivity
- See Incompatible Materials

Chemical Stability

Possibility of hazardous reactions

- Possibility of Hazardous Reactions
- See Incompatible Materials

Conditions to Avoid

- Avoid dust formation
- Keep away from heat and sources of ignition
- Take precautionary measures against static discharges

Incompatible materials to avoid

- Strong acids
- Oxidizing agents

Hazardous Decomposition Products

- Heating or fire can release toxic gas
 - Carbon oxides
 - Nitrogen oxides (NOx)
 - sulphur oxides

11. TOXICOLOGICAL INFORMATION

Product Information

LD50/oral/rat =	1800 mg/kg
LD50/dermal/rabbit =	> 2000 mg/kg
LC50/inhalation/4h/rat =	3.46 mg/l
Eye irritation	Irritating to eyes
Skin irritation	Irritating to skin
Sensitization	May cause sensitization by skin contact
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
Target Organ Effects	Kidney Liver Thyroid

Thiram

LC50/inhalation/1h/rat =	500 mg/m ³
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Human experience

14. TRANSPORT INFORMATION

Road transport

Class 9
UN-No UN3077
Packing Group III
Marine pollutant yes
Proper Shipping Name 3077 - Environmentally hazardous substance, solid, n.o.s

Sea transport

Class 9
UN-No UN3077
Packing Group III
Marine pollutant yes
Proper Shipping Name 3077 - Environmentally hazardous substance, solid, n.o.s

Air transport

Class 9
UN-No UN3077
Packing Group III
Marine pollutant yes
Proper Shipping Name 3077 - Environmentally hazardous substance, solid, n.o.s

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation 1907/2006 REGULATION (EC) No 1272/2008

International Inventories

Chemical Name	TSCA	EINECS	DSL	ENCS	AICS
<u>Thiram</u>	X	2052862	DSL - Listed	(2)-1820 (2)-1828	Listed.

Chemical Safety Assessment

- no data available

16. OTHER INFORMATION

This data sheet contains changes from the previous version in section(s)

Revision Date 01-Dec-2010
Reason for revision Classification and hazard labeling
Literary Reference -Taminco Proprietary Studies

List of relevant R-phrases

- R20/22 - Harmful by inhalation and if swallowed
- R48/22 - Harmful: danger of serious damage to health by prolonged exposure if swallowed
- R36/38 - Irritating to eyes and skin
- R43 - May cause sensitization by skin contact
- R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Training advice

Provide adequate information, instruction and training for operators

Further information for the material safety data sheet

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

End of Material Safety Data Sheet