

# **DIMACIT TMTD-PDR**

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 07/14/2022

 1.5
 07/15/2022
 150000103778
 Date of first issue: 04/05/2017

PRD SDSUS / Z8 / 0001

#### **SECTION 1. IDENTIFICATION**

Product name : DIMACIT TMTD-PDR

Product code : 51268-00, P5126816, N5126810, P5126811, P5126819,

P5126817, N5126811, P5126815, P5126814

Manufacturer or supplier's details

Company name of supplier : Eastman Chemical Company

Address : 200 South Wilcox Drive

Kingsport TN 37660-5280

Telephone : (423) 229-2000

Emergency telephone : CHEMTREC: +1-800-424-9300, +1-703-527-3887 CCN7321

Recommended use of the chemical and restrictions on use

Recommended use : Rubber products

Restrictions on use : None known.

## **SECTION 2. HAZARDS IDENTIFICATION**

# GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Combustible dust

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 (Oral)

Category 2 (Liver, Thyroid, Kidney)

**GHS** label elements

Hazard pictograms :







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Signal Word : Warning

Hazard Statements : May form combustible dust concentrations in air.

H302 + H332 Harmful if swallowed or if inhaled.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H373 May cause damage to organs (Liver, Thyroid, Kidney) through prolonged or repeated exposure if swallowed.

**Precautionary Statements** 

#### Prevention:

P260 Do not breathe dust/fume/ gas/mist/vapors/ spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/ eye protection/ face protection.

#### Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON

CENTER/ doctor if you feel unwell. Rinse mouth.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P314 Get medical advice/ attention if you feel unwell.

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

attention.

P337 + P313 If eye irritation persists: Get medical advice/ atten-

P362 Take off contaminated clothing and wash before reuse.

#### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

#### Other hazards

None known.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Pure substance

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
Thiram	137-26-8	>= 90 - <= 100



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Eastman is committed to the safety, health and environment of our employees, our customers, and the communities we operate within. As part of this commitment, Eastman's Safety Data Sheets (SDS) are prepared in accordance with all applicable national and local regulations. The compositions of our documents reflect these requirements which include, but are not limited to, requirements under the Globally Harmonized System of Classification and Labeling (GHS). These compositions commonly involve the use of ranges versus specific analytical values. If you require a composition that is more specific, please refer to the Certificate of Analysis, sales specification, or contact your Customer Service Representative.

#### **SECTION 4. FIRST AID MEASURES**

General advice : Show this material safety data sheet to the doctor in

attendance.

Consult a physician.

If inhaled : Remove to fresh air.

If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical advice/ attention.

In case of skin contact : Wash off immediately with plenty of water for at least 15

minutes.

Take off all contaminated clothing immediately. Call a physician or poison control center immediately.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids,

for at least 15 minutes.

Remove contact lenses, if present and easy to do. Continue

rinsing.

If eye irritation persists: Get medical advice/ attention.

If swallowed : Call a physician or poison control center immediately.

Clean mouth with water and drink afterwards plenty of water.

Do not induce vomiting without medical advice.

Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and

delayed

Irregular cardiac activity

Dermatitis Eczema Headache Nausea

Shortness of breath

May produce an allergic reaction. Health injuries may be delayed.

More severe effects if alcohol is consumed.

Harmful if swallowed or if inhaled.

Causes skin irritation.

May cause an allergic skin reaction. Causes serious eye irritation.

May cause damage to organs through prolonged or repeated

exposure if swallowed.



# **DIMACIT TMTD-PDR**

Notes to physician

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: General advice for dithiocarbamates

Biomonitoring possible at chronical exposure: determination of

TTCA in the urine at the end of the workday/week.

Bloodtesting for delayed effects: livertests, kidney function,

thyroid function

**SECTION 5. FIRE-FIGHTING MEASURES** 

Suitable extinguishing media : Use water spray to extinguish.

Carbon dioxide (CO2) Alcohol-resistant foam

Unsuitable extinguishing

media

Do NOT use water jet.

Specific hazards during fire

fighting

Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a

potential dust explosion hazard.

Hazardous combustion prod-

ucts

Carbon monoxide
Nitrogen oxides (NOx)

Sulfur oxides

Further information : Take precautionary measures against static discharges.

Special protective equipment

for fire-fighters

Wear an approved positive pressure self-contained breathing

apparatus in addition to standard fire fighting gear.

**SECTION 6. ACCIDENTAL RELEASE MEASURES** 

Personal precautions, protective equipment and emer-

gency procedures

Wear appropriate personal protective equipment.

Local authorities should be advised if significant spillages

cannot be contained.

Environmental precautions : Avoid release to the environment.

Methods and materials for containment and cleaning up

: Sweep up or vacuum up spillage and collect in suitable

container for disposal.

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local /

national regulations (see section 13).

SECTION 7. HANDLING AND STORAGE

Advice on protection against

fire and explosion

Minimize dust generation and accumulation.

Keep product and empty container away from heat and

sources of ignition.

Advice on safe handling : Avoid breathing dust.

Do not get on skin or clothing.



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Do not get in eyes. Do not swallow.

Ensure adequate ventilation. Wash thoroughly after handling.

Conditions for safe storage : Keep tightly closed.

Keep in a dry, cool and well-ventilated place.

Keep away from direct sunlight. Use only explosion-proof equipment.

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Components	CAS-No.	Value type	Control parame-	Basis
		(Form of	ters / Permissible	
		exposure)	concentration	
Thiram	137-26-8	TWA (Inhal-	0.05 mg/m3	ACGIH
		able fraction		
		and vapor)		
		TWA	5 mg/m3	NIOSH REL
		TWA	5 mg/m3	OSHA Z-1
		TWA	5 mg/m3	OSHA P0

**Engineering measures** 

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

## Personal protective equipment

Respiratory protection

Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Effective dust mask

Hand protection

Remarks : Rubber gloves Neoprene gloves The data about break

through time/strength of material are standard values! The exact break through time/strength of material has to be obtained from the producer of the protective glove.

Eye protection : Wear safety glasses with side shields (or goggles).

Face-shield

Always wear eye protection when the potential for inadvertent

eye contact with the product cannot be excluded.

Skin and body protection : Complete suit protecting against chemicals

Protective measures : Remove respiratory and skin/eye protection only after vapors



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have been cleared from the area.

Ensure that eye flushing systems and safety showers are

located close to the working place.

Use personal protective equipment as required.

Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice.

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : powder

Color : white, light brown

Odor : odorless

Odor Threshold : not determined

pH : 6.75 (68 °F / 20 °C)

Concentration: 4 %

Melting point/range : 291 - 295 °F / 144 - 146 °C

Boiling point/boiling range : 329 °F / 165 °C

Decomposition

Flash point : Not applicable

Evaporation rate : not determined

Flammability (solid, gas) : not auto-flammable

Self-ignition : 752 °F / 400 °C

Upper explosion limit / Upper

flammability limit

not determined

Lower explosion limit / Lower

flammability limit

not determined

Vapor pressure : 0.00002 Pa (77 °F / 25 °C)

Relative vapor density : not determined

Relative density : No data available

Density : 1.36 g/cm3 (68 °F / 20 °C)

Solubility(ies)

Water solubility : 0.018 g/l (68  $^{\circ}$ F / 20  $^{\circ}$ C)



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Partition coefficient: n-

octanol/water

: log Pow: 1.84

Autoignition temperature : not determined

Decomposition temperature : 329 °F / 165 °C

Viscosity

Viscosity, dynamic : not determined

Viscosity, kinematic : Not applicable

Explosive properties : No data available

Oxidizing properties : Not classified

Surface tension : 71.5 mN/m, 68 °F / 20 °C

#### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : None reasonably foreseeable.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reac-

tions

Hazardous decomposition products formed under fire

conditions

Dust can form an explosive mixture in air.

Conditions to avoid : Avoid dust formation.

Heat, flames and sparks.

Incompatible materials : Strong oxidizing agents

Strong acids

Hazardous decomposition

products

Carbon monoxide

Carbon dioxide (CO2)

Nitrogen oxides (NOx)

Sulfur oxides

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

## Acute toxicity

Harmful if swallowed or if inhaled.

**Product:** 

Acute oral toxicity : Remarks: Harmful if swallowed.

Acute inhalation toxicity : Remarks: Harmful if inhaled.

Acute dermal toxicity : Remarks: No data available



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Components:

Thiram:

Acute oral toxicity : LD50 Oral (Rat): 1,800 mg/kg

Acute inhalation toxicity : LC50 (Rat): 4.42 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Acute dermal toxicity : LD50 Dermal (Rabbit): > 2,000 mg/kg

Assessment: The substance or mixture has no acute dermal

toxicity

Skin corrosion/irritation

Causes skin irritation.

**Product:** 

Remarks : Causes skin irritation.

**Components:** 

Thiram:

Species : Rabbit Exposure time : 4 h

Result : Skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

**Product:** 

Remarks : Causes serious eye irritation.

**Components:** 

Thiram:

Species : Rabbit Result : irritating

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

Not classified based on available information.

**Components:** 

Thiram:

Test Type : Skin sensitization
Species : Guinea pig
Result : sensitizing



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## Germ cell mutagenicity

Not classified based on available information.

**Product:** 

Germ cell mutagenicity - : Did not show mutagenic effects in animal experiments.

Assessment

Carcinogenicity

Not classified based on available information.

IARC No ingredient of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA**No component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

## Reproductive toxicity

Not classified based on available information.

**Product:** 

Reproductive toxicity - As- : Did not show teratogenic effects in animal experiments.

sessment

# STOT-single exposure

Not classified based on available information.

**Product:** 

Remarks : No data available

# STOT-repeated exposure

May cause damage to organs (Liver) through prolonged or repeated exposure if swallowed.

**Product:** 

Target Organs : Thyroid, Respiratory system, Kidney, Liver, Central nervous

system

#### Aspiration toxicity

Not classified based on available information.

**Product:** 

No data available

## Experience with human exposure

**Product:** 

Inhalation : Remarks: Harmful if inhaled.

May cause damage to organs through prolonged or repeated



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exposure.

Skin contact : Remarks: Causes skin irritation.

May cause an allergic skin reaction.

Eye contact : Remarks: Causes serious eye irritation.

Ingestion : Remarks: Harmful if swallowed.

# **SECTION 12. ECOLOGICAL INFORMATION**

## **Ecotoxicity**

## **Components:**

Thiram:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.046 - 0.54

mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 0.011 - 0.139 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

: EC50 (Chlorella pyrenoidosa): > 0.14 mg/l

Exposure time: 120 h

Toxicity to fish (Chronic tox-

icity)

NOEC (Pimephales promelas (fathead minnow)): 0.0046 mg/l

Exposure time: 33 d

Toxicity to microorganisms : IC50 (Bacteria): 3.11 mg/l

Exposure time: 3 h

# Persistence and degradability

**Product:** 

Biodegradability : Result: Not readily biodegradable.

Bioaccumulative potential

**Product:** 

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Mobility in soil

**Product:** 

Distribution among environ-

mental compartments

: Koc: 2245 - 24526

#### Other adverse effects

No data available



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#### **SECTION 13. DISPOSAL CONSIDERATIONS**

Disposal methods

Waste from residues : Dispose of in accordance with local regulations.

Contaminated packaging : Empty containers should be taken to an approved waste

handling site for recycling or disposal.

#### **SECTION 14. TRANSPORT INFORMATION**

#### International Regulations

**IATA-DGR** 

UN/ID No. : UN 3077

Proper shipping name : Environmentally hazardous substance, solid, n.o.s.

(Thiram)

Class : 9 Packing group : III

Labels : Miscellaneous

Packing instruction (cargo : 956

aircraft)

Packing instruction (passen-

ger aircraft)

956

**IMDG-Code** 

UN number : UN 3077

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(Thiram)

Class : 9
Packing group : III
Labels : 9
EmS Code : F-A, S-F
Marine pollutant : yes

## Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

#### **Domestic regulation**

**49 CFR** 

UN/ID/NA number : UN 3077

Proper shipping name : Environmentally hazardous substances, solid, n.o.s.

(Thiram)

Class : 9
Packing group : III
Labels : CLASS 9
ERG Code : 171
Marine pollutant : no

Remarks : Shipping in package sizes of less than 5 L (liquids) or 5 KG

(solids) may lead to a non-regulated classification.

#### Special precautions for user



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Remarks : Shipping in package sizes of less than 5 L (liquids) or 5 KG

(solids) may lead to a non-regulated classification.

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

#### **SECTION 15. REGULATORY INFORMATION**

#### **CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ Calculated product	
		(lbs)	(lbs)
thiram	137-26-8	10	10

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

#### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Acute Health Hazard

Chronic Health Hazard

Fire Hazard

SARA 313 : The following components are subject to reporting levels

established by SARA Title III, Section 313:

Thiram 137-26-8 98.7795 %

# California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

# The ingredients of this product are reported in the following inventories:

TSCA : On TSCA Inventory

DSL : All components of this product are on the Canadian DSL

AllC : On the inventory, or in compliance with the inventory

ENCS : On the inventory, or in compliance with the inventory

KECI: On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

# TSCA list

No substances are subject to a Significant New Use Rule.



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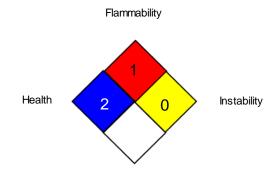
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No substances are subject to TSCA 12(b) export notification requirements.

#### **SECTION 16. OTHER INFORMATION**

#### **Further information**

#### NFPA 704:



Special hazard

#### HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

#### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL : USA. NIOSH Recommended Exposure Limits

OSHA P0 : USA. Table Z-1-A Limits for Air Contaminants (1989 vacated

values)

OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim-

its for Air Contaminants

ACGIH / TWA : 8-hour, time-weighted average

NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour

workday during a 40-hour workweek

OSHA P0 / TWA : 8-hour time weighted average OSHA Z-1 / TWA : 8-hour time weighted average

AllC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime



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Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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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 given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

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