according to Regulation (EC) No. 1907/2006



DIMACIT TMTD-PDR

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : DIMACIT TMTD-PDR

Product code : 51268-00, N5126810, P5126812, P5126811, P5126813,

P5126815, P5126814

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub- : Rubber products

stance/Mixture

Recommended restrictions

on use

: None known.

1.3 Details of the supplier of the safety data sheet

Company : Eastman Chemical Company

200 South Wilcox Drive 37660-5280 Kingsport

Telephone : +14232292000

E-mail address of person : Visit our website at www.EASTMAN.com or email

responsible for the SDS emnmsds@eastman.com

1.4 Emergency telephone number

Emergency telephone number : NCEC +44 (0)1235 239 670:

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4 H302: Harmful if swallowed.

Acute toxicity, Category 4 H332: Harmful if inhaled.

Skin irritation, Category 2 H315: Causes skin irritation.

Eye irritation, Category 2 H319: Causes serious eye irritation.

Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

Specific target organ toxicity - repeated

exposure, Category 2

H373: May cause damage to organs through pro-

longed or repeated exposure.

Acute aquatic toxicity, Category 1 H400: Very toxic to aquatic life.

Chronic aquatic toxicity, Category 1 H410: Very toxic to aquatic life with long lasting

effects.

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2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :





Signal word : Warning

Hazard statements : H302 Harmful if swallowed.

H332 Harmful if inhaled.
H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H373 May cause damage to organs through pro-

longed or repeated exposure.

H410 Very toxic to aquatic life with long lasting

effects.

Precautionary statements : **Prevention**:

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/

eye protection/ face protection.

Response:

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.

P304 + P340 IF INHALED: Remove victim to fresh air

and keep at rest in a position comfortable

for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with wa-

ter for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

Disposal:

P501 Dispose of contents/ container to an ap-

proved incineration plant.

Hazardous components which must be listed on the label: tetramethylthiuram disulphide

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

according to Regulation (EC) No. 1907/2006



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3.2 Mixtures

Components

Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
	Registration number		
tetramethylthiuram disulphide	137-26-8	Acute Tox. 4; H302	>= 98
	205-286-2 / 01-	Acute Tox. 4; H332	
	2119492301-45-0000	Skin Irrit. 2; H315	
		Eye Irrit. 2; H319	
		Skin Sens. 1; H317	
		STOT RE 2; H373	
		Aquatic Acute 1;	
		H400	
		Aquatic Chronic 1;	
		H410	

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Show this 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 centre 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 centre 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.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Irregular cardiac activity

Dermatitis Eczema Headache Nausea

according to Regulation (EC) No. 1907/2006



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Shortness of breath

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

More severe effects if alcohol is consumed.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : 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: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use water spray to extinguish.

Carbon dioxide (CO2) Alcohol-resistant foam

Unsuitable extinguishing

media

: Do NOT use water jet.

5.2 Special hazards arising from the substance or mixture

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)

Sulphur oxides

5.3 Advice for firefighters

Special protective equipment

for firefighters

: Wear an approved positive pressure self-contained breathing

apparatus in addition to standard fire fighting gear.

Further information : Take precautionary measures against static discharges.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Wear appropriate personal protective equipment.

Local authorities should be advised if significant spillages

cannot be contained.

6.2 Environmental precautions

Environmental precautions : Avoid release to the environment.

according to Regulation (EC) No. 1907/2006



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6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Sweep up or vacuum up spillage and collect in suitable con-

tainer 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).

6.4 Reference to other sections

For personal protection see section 8., For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid breathing dust.

Do not get on skin or clothing.

Do not get in eyes. Do not swallow.

Ensure adequate ventilation. Wash thoroughly after handling.

Advice on protection against

fire and explosion

: Minimize dust generation and accumulation.

Keep product and empty container away from heat and

sources of ignition.

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

practice.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

: Keep tightly closed. Keep in a dry, cool and well-ventilated place. Keep away from direct sunlight. Use only explosion-

proof equipment.

7.3 Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
	Workers	Dermal	Acute effects	10 mg/kg bw/day
	Workers	Inhalation	Acute effects	0.564 mg/m3
	Workers	Dermal	Long-term systemic	1.6 mg/kg

according to Regulation (EC) No. 1907/2006



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		effects	bw/day
Workers	Inhalation	Long-term systemic effects	0.118 mg/m3

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
	Fresh water	0.00046 mg/l
	Fresh water sediment	0.047 mg/kg
	Marine water	0.000046 mg/l
	Marine sediment	0.0047 mg/kg
	Soil	0.00912 mg/kg
	Sewage treatment plant	0.0311 mg/l

8.2 Exposure controls

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

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.

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 ob-

tained from the producer of the protective glove.

Skin and body protection : Complete suit protecting against chemicals

Respiratory protection : Use respiratory protection unless adequate local exhaust ven-

tilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Effective dust mask

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

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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

according to Regulation (EC) No. 1907/2006



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Appearance : powder

Colour : white, light brown

Odour : odourless

pH : 6.75, 4 % (20 °C)

Melting point/range : 144 - 146 °C

Boiling point/boiling range : 165 °C

Decomposition

Flash point : Not applicable

Flammability (solid, gas) : not auto-flammable

Vapour pressure : 0.00002 Pa (25 °C)

Density : 1.36 g/cm3 (20 °C)

Solubility(ies)

Water solubility : 0.018 g/l (20 °C)

Partition coefficient: n-

octanol/water

: log Pow: 1.84

Decomposition temperature : 165 °C

Viscosity

Viscosity, kinematic : Not applicable

Oxidizing properties : Not classified

9.2 Other information

Surface tension : 71.5 mN/m, 20 °C

SECTION 10: Stability and reactivity

10.1 Reactivity

None reasonably foreseeable.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Hazardous decomposition products formed under fire condi-

tions.

Dust can form an explosive mixture in air.

according to Regulation (EC) No. 1907/2006



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10.4 Conditions to avoid

Conditions to avoid : Avoid dust formation.

Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents

Strong acids

10.6 Hazardous decomposition products

Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx), Sulphur oxides

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Components:

tetramethylthiuram disulphide:

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

Components:

tetramethylthiuram disulphide:

Species: Rabbit Exposure time: 4 h Result: Skin irritation

Serious eye damage/eye irritation

Components:

tetramethylthiuram disulphide:

Species: Rabbit Result: irritating

Respiratory or skin sensitisation

Components:

tetramethylthiuram disulphide: Test Type: Skin sensitisation

according to Regulation (EC) No. 1907/2006



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Species: Guinea pig Result: sensitizing

Germ cell mutagenicity

Product:

Germ cell mutagenicity- As-

sessment

: Did not show mutagenic effects in animal experiments.

Reproductive toxicity

Product:

Reproductive toxicity - As-

sessment

: Did not show teratogenic effects in animal experiments.

Experience with human exposure

Product:

Inhalation : Remarks: Harmful if inhaled.

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

12.1 Toxicity

Components:

tetramethylthiuram disulphide:

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

Exposure time: 120 h

M-Factor (Acute aquatic tox-

icity)

: 10

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

Exposure time: 3 h

Toxicity to fish (Chronic tox-

icity)

: NOEC: 0.0046 mg/l Exposure time: 33 d

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according to Regulation (EC) No. 1907/2006



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Species: Pimephales promelas (fathead minnow)

M-Factor (Chronic aquatic

toxicity)

: 10

12.2 Persistence and degradability

Product:

Biodegradability : Result: Not readily biodegradable.

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

12.4 Mobility in soil

Product:

Distribution among environ-

mental compartments

: Koc: 2245 - 24526

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (VPVB) at levels of

0.1% or higher...

12.6 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Dispose of in accordance with local regulations.

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

dling site for recycling or disposal.

SECTION 14: Transport information

14.1 UN number

ADN : UN 3077
ADR : UN 3077
IMDG : UN 3077
IATA : UN 3077

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14.2 UN proper shipping name

ADN : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(tetramethylthiuram disulphide)

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(tetramethylthiuram disulphide)

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(tetramethylthiuram disulphide)

IATA : Environmentally hazardous substance, solid, n.o.s.

(tetramethylthiuram disulphide)

14.3 Transport hazard class(es)

ADN : 9
ADR : 9
IMDG : 9
IATA : 9

14.4 Packing group

ADN

Packing group : III
Classification Code : M7
Hazard Identification Number : 90
Labels : 9

ADR

Packing group : III
Classification Code : M7
Hazard Identification Number : 90
Labels : 9
Tunnel restriction code : (E)

IMDG

Packing group : III
Labels : 9

EmS Code : F-A, S-F

IATA

Packing instruction (cargo : 956

aircraft)

Packing instruction (passen: 956

ger aircraft)

Packing instruction (LQ) : Y956
Packing group : III

Labels : Miscellaneous

14.5 Environmental hazards

ADN

according to Regulation (EC) No. 1907/2006



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Environmentally hazardous : yes

ADR

Environmentally hazardous : yes

IMDG

Marine pollutant : yes

14.6 Special precautions for user

Not applicable

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

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Regulation (EC) No 649/2012 of the European Parlia: Not applicable

ment and the Council concerning the export and import

of dangerous chemicals

REACH - Candidate List of Substances of Very High : Not applicable

Concern for Authorisation (Article 59).

Regulation (EC) No 1005/2009 on substances that de: Not applicable

plete the ozone layer

Regulation (EC) No 850/2004 on persistent organic pol- : Not applicable

lutants

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of

major-accident hazards involving dangerous substances.

Quantity 1 Quantity 2

E1 ENVIRONMENTAL 100 t 200 t

HAZARDS

Other regulations : Take note of Directive 92/85/EEC regarding maternity protec-

tion or stricter national regulations, where applicable.

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applica-

ble.

The components of this product are reported in the following inventories:

TSCA : On TSCA Inventory

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

AICS : 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

according to Regulation (EC) No. 1907/2006



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

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

15.2 Chemical safety assessment

A Chemical Safety Assessment has been carried out for this substance.

SECTION 16: Other information

Full text of H-Statements

H302 : Harmful if swallowed. H315 : Causes skin irritation.

H317 : May cause an allergic skin reaction. H319 : Causes serious eye irritation.

H332 : Harmful if inhaled.

H373 : May cause damage to organs through prolonged or repeated

exposure.

H400 : Very toxic to aquatic life.

H410 : Very toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Acute : Acute aquatic toxicity
Aquatic Chronic : Chronic aquatic toxicity

Eye Irrit. : Eye irritation
Skin Irrit. : Skin irritation
Skin Sens. : Skin sensitisation

STOT RE : Specific target organ toxicity - repeated exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx -Concentration associated with x% response; 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; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; 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 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; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumu-

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lative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

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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