

Dimacit TMTD-0P

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION		
Manufacturer	Emergency Contact	
Taminco, A Subsidiary of Eastman Chemical	Chemtrec: 1-800-424-9300 (USA)	
Company	(1)330-542-8400 (outside USA)	
Pantserschipstraat 207. 9000 Gent, Belgium		
Phone: 32-9-254-14-11 Fax: 32-9-254-14-10		
Trade Name(s): Dimacit TMTD Oiled Powder	Chemical Name: Tetramethylthiuram disulfide	
Relevant identified uses of the substance or mixture	Application of the substance/the preparation: Initial	
and uses advised against: No further relevant	product for chemical reactions.	
information available.		
Issued By: Sovereign Chemical Company	Date of Issue: May 1, 2023	
The state of the s	, , , , , , , , , , , , , , , , , , ,	
According to 1907/2006/EC (REACH),		
1272/2008/EC (CLP), and GHS		

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Information in accordance with US 29 CFR 1910.1200 (Hazcom 2012) and 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 sensitization, Category 1 H317: May cause an allergic skin reaction.

Specific target organ toxicity – H373: May cause damage to organs through prolonged or

repeated exposure, Category 2 repeated exposure

Short-term (acute) aquatic

hazard, Category 1

H400: Very toxic to aquatic life.

Long-term (chronic) aquatic

hazard, Category 1

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

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Labeling (Regulation EC No 1272/2008) Hazard pictograms









Signal Word: Warning

Hazard Statements

H302	Harmful it 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 prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statements

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

Disposal

P501 Dispose of contents/container to an approved incineration plant.

Hazardous ingredients which must be listed on the label: Thiram

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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Chemical Name	CAS No	EC No	Weight %	Classification
tetramethylthiuram	137-26-8	205-286-2	≥96%	Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Irrit. 2;
disulphide				H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 STOT
				RE 2; H373 Aquatic Acute 1; H400 Aquatic Chronic
				1; H410; M-Factor (Acute aquatic toxicity): 10 M-
				Factor (Chronic aquatic toxicity): 10

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The remaining unspecified ingredients are impurities and are not hazardous.



4. FIRST AID MEASURES

Description of first aid measures

General information Show tis safety data sheet to the doctor in attendance. Consult a

physician.

If inhaled Supply 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

Symptoms 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

Indication of any immediate medical attention and special treatment needed

Treatment General advice for dithiocarbamates

Biomonitoring possible at chronic exposure: determination of TTCA in the

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urine at the end of the workday/week.

Blood-testing for delayed effects: liver tests, kidney function, thyroid

function

5. FIRE FIGHTING MEASURES

Extinguishing media

Suitable extinguishing Use water spray to extinguish.

Agents Carbon dioxide (CO2).



Alcohol-resistant foam.

Unsuitable extinguishing

media

Do NOT use water jet.

Special hazards arising from the substance or mixture

Specific hazards Avoid generating dust; fine dust dispersed in air in sufficient concentrations

and in the presence of an ignition source is a potential dust explosion during firefighting

hazard.

Hazardous Carbon monoxide Nitrogen oxides (NOx) combustion products

Sulphur oxides

Advice for firefighters

Special protective Wear an approved positive pressure self-contained breathing apparatus

equipment for in addition to standard firefighting gear.

6 ACCIDENTAL RELEASE MEASURES

Personal Wear appropriate personal protective equipment. Local authorities should

advised if significant spillages cannot be contained. precautions

Environmental

precautions

cleaning up

Avoid release to the environment.

Sweep up or vacuum up spillage and collect in suitable container for disposal. Contain Methods for

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).

HANDLING AND STORAGE

Advice on Avoid breathing dust. Do not get on skin or clothing. Do not get in eyes.

safe handling Do not swallow. Ensure adequate ventilation. Wash thoroughly after handling.

Advice on Minimize dust generation and accumulation.

Keep product and empty container away from heat and sources of ignition. protection

against fire and explosion

Hygiene Handle in accordance with good industrial hygiene and safety practice. measures

Conditions for Keep tightly closed. Keep in a dry, cool, and well-ventilated place. Keep away from direct



safe storage areas and containers direct sunlight. Use only explosion-proof equipment.

8. EXPOSURE CONTROLS - PERSONAL PROTECTION

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

Substance name	End Use	Routes of expo-	Potential health ef-	Value
		sure	fects	
	Workers	Dermal	Acute effects	10 mg/kg
				bw/day
	Workers	Inhalation	Acute effects	0,564 mg/m3
	Workers	Dermal	Long-term systemic effects	1,6 mg/kg 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/k	
	Soil	0,00912 mg/kg
	Sewage treatment plant	0,0311 mg/l

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

Rubber gloves Neoprene gloves The data about break through time/strength of material are standard values! The exact breakthrough time/strength of material

must be obtained 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 ventilation is provided or exposure assessment demonstrates that exposures are within recommended

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exposure guidelines. Effective dust mask.



Protective measures

Remove respiratory and skin/eye protection only after vapors 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

General information	
Appearance	Change in Condition
Form: Powder.	Melting Point/Melting Range: 144-146 °C Boiling
Color: Cream-white.	Point/Boiling Range: 165 °C (Decomposition)
Odor: None.	Octanol/Water Partition Coefficient: log Pow: 1.73
Odor threshold: Not determined.	pH Value: 6.5
	Concentration: 4%
Vapor pressure: .00002 Pa (25 °C)	Flash point: Not applicable.
Density at 20 °C: Not determined.	Flammability (solid, gaseous): Product is not
	flammable.
Density: 1.36 g/cm3 (20 °C)	Ignition temperature: Not determined.
Vapor density: Not applicable.	Decomposition temperature: 165 °C
Evaporation rate: Not applicable.	Self-igniting: Not determined.
Solubility in / Miscibility with water: .0165 g/l	Danger of explosion: Product does not present an
	explosion hazard.
Viscosity	Explosion limits
Dynamic: Not applicable.	Lower: Not determined.
Kinematic: Not applicable.	Upper: Not determined.

10. STABILITY AND REACTIVITY

Reactivity None reasonably foreseeable.

Chemical

stability

Stable under normal conditions.

Possibility of

hazardous reactions

Hazardous decomposition products formed under fire conditions. Dust can form an

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explosive mixture in air.

Conditions

Avoid dust formation. Heat, flame, and sparks.

to avoid

Incompatible

Strong oxidizing agents

materials Strong acids

Hazardous

Sulfur oxides (SOx)
Nitrogen oxides (NO:

decomposition Nitrogen oxides (NOx) products Carbon monoxide and carbon dioxide



11. TOXICOLOGICAL INFORMATION

Acute toxicity

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

tetramethylthiuram disulphide

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

Serious eye damage/eye irritation

tetramethylthiuram disulphide

Species: Rabbit Result: irritating

Respiratory or skin sensitization

tetramethylthiuram disulphide

Test Type: Skin sensitization

Species: Guinea pig Result: sensitizing

Germ cell mutagenicity

Product: Germ cell mutagenicity - Assessment

Did not show mutagenic effects in animal experiments.

Carcinogenicity

Remarks: This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.



Reproductive toxicity

Reproductive toxicity – Assessment: Did not show teratogenic effects in animal experiments.

STOT-single exposure

Remarks: No data available

STOT-repeated exposure

Routes of exposure: Ingestion Target Organs: Thyroid, Kidney, Liver

Aspiration toxicity

Product: No data available

Information on likely routes of exposure

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.

12. ECOLOGICAL INFORMATION

tetramethylthiuram disulphide

Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)): 0,046 - 0,54 mg/l

Exposure time: 96 h

Toxicity to EC50 (Daphnia magna (Water flea)): 0,011 - 0,139 mg/l

Daphnia and Exposure time: 48 h

other aquatic invertebrates

Toxicity to EC50 (Chlorella pyrenoidosa (aglae)): > 0,14 mg/l

algae/aquatic Exposure time: 120 h

plants

M-Factor 10

(Acute/chronic aquatic toxicity)

Toxicity to IC50 (Bacteria): 3,11 mg/l microorganisms Exposure time: 3 h

Toxicity to fish NOEC: 0,0046 mg/l (Chronic toxicity) Exposure time: 33 d

Species: Pimephales promelas (fathead minnow)



Not readily biodegradable.

Bioaccumulation is unlikely.

Distribution among environmental compartments: Koc: 2245 - 24526

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.

13. DISPOSAL CONSIDERATIONS

Waste Dispose of in accordance with local regulations.

treatment Empty containers should be taken to an approved waste handling site for

recycling or disposal.

14. TRANSPORTATION INFORMATION

UN-Number

ADN, ADR, IMDG, IATA, DOT UN3077

UN proper shipping name:

ADN, ADR, IMDG, IATA, DOT Environmentally hazardous substances, solid, n.o.s.

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(thiram)

Transport hazard class(es)

ADN, ADR, IMDG, IATA, DOT Class 9

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: (-)

IMDG

Packing group: III

Classification Code: M7 EMS Code: F-A, S-F



IATA

Packing instruction (cargo/passenger aircraft): 956

Packing instruction (LQ): Y956

Packing group: III

Labels: Class 9 – Miscellaneous dangerous substances and articles

Environmental hazards

ADN Environmentally hazardous: yes

ADR Environmentally hazardous: yes

IMDG Marine pollutant : yes

Special precautions for user

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.

Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

15. REGULATORY INFORMATION

Safety, health, and environmental regulations/legislation specific for the substance or mixture Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals

Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorization (Article 59).

Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer

Not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

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E1 ENVIRONMENTAL HAZARDS



Other regulations

Take note of Directive 92/85/EEC regarding maternity protection 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 applicable.

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

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

TSCA: All substances listed as active on the TSCA inventory

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

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

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

ISHL: 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

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.