



EAST COAST ORGANICS PRIVATE LIMITED

Regd. Office & Factory : 237/2, Vellivoyal Chavadi,
Chennai – 600 103. India.



MATERIAL SAFETY DATA SHEET

TETRA METHYL THIURAM DISULPHIDE

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Tetra Methyl Thiuram disulphide
Company Identification: 237/2, Vellivoyal Chavadi
Chennai - 600 103. Tamilnadu
Office Telephone No: 044 64606747

2. COMPOSITION / INFORMATION OF INGREDIENTS

Chemical description: Sodium Diethyl Dithio Carbamate

CHEMICAL NAME CAS NO.	CAS NO.	EINECS NO.	WT%
Tetra Methyl Thiuram disulphide	137- 26-8	205-2 86- 2	98%

3. HAZARD IDENTIFICATION

Classification of the substance or mixture :

Classification according to EU directives 67/548/EEC or 1999/45/EC REGULATION (EC) No. 1272/2008

N, Xn, Xi, R20/22, R36/38, R43, R48/22, R50/53

Classification of the substance or mixture

Acute tox:Cat.4; Skin sensitization: Cat.1; Aquatic acute: Cat.1; Germ cell mutagenicity Cat. 2; Specific target organ toxicity, single exposure; Respiratory tract irritation Cat.3

Label elements :

Hazard Statements

H302 Harmful if swallowed.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H332 Harmful if inhaled
H335 May cause respiratory irritation.
H341 May cause mutagenic effects
H410 Very toxic to aquatic life with long lasting effects.
Precautionary Statements Prevention P261 Avoid breathing dust/ fume /gas /mist / vapours /spray.
P262 Avoid contact with skin, eyes and clothing
P264 Wash hands thoroughly after handling
P271 Use only outdoors or in a ventilated area
P273 Avoid release to the environment.



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Precautionary Statements Response	P281 Wear protective gloves. P301+P312 If swallowed, seek advice of a medical practitioner P302+P352 If on skin, wash with plenty of soap and water P304+P340 If inhaled, remove victim to fresh air P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Precautionary Statements - storage	P403+P233 store in a well ventilated place. Keep container closed
Precautionary Statements - Disposal	P501 Dispose of contents/ container to an approved waste disposal plant.

4. FIRST AID MEASURES

General Advice:	If symptoms persist, call a physician. Show this material safety data sheet to the Doctor in attendance. Treat symptomatically. Use of alcoholic beverages may Enhance toxic effects. In case of allergic reaction after exposure, any future Exposure must be avoided.
Inhalation	Move to fresh air, if symptoms persist, seek medical advice
Skin Contact :	Wash immediately with soap and water
Eye Contact :	Rinse immediately as long as a possible with plenty of water. Seek medical advice if irritation persist
Ingestion :	Rinse mouth, give water to drink
Most important symptoms and effects, both acute and delayed	Harmful if swallowed. May cause anallergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. May cause mutagenic effects. Very toxic to aquatic life with long lasting effects.

5. FIRE FIGHTING MEASURES

Extinguishing Media:	Use water spray, alcohol- resistant foam, dry chemical or carbon dioxide.
Special hazards arising from the substance or mixture:	Carbon oxides, nitrogen oxides(NOx), Sulphur oxides
Protective Equipment and Precautions for Firefighters	Wear self contained breathing apparatus for firefighting if necessary

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid
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Environmental precautions:	breathing dust. For personal protection see section Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided
Methods and material for containment and cleaning up:	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed Containers for disposal

7. HANDLING AND STORAGE

Precautions for safe handling:	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions
Conditions for safe storage, including any incompatibilities & Storage:	Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Control parameters	Components with work place control parameters
Exposure controls	
Engineering Controls:	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday
Personal Protective Equipment:	
Eye/face Protection :	Face shield and safety glasses Use equipment for eye protection tested and Approved under appropriate government standards such as NIOSH(US)orEN166(EU)
Skin Protection :	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal Technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of Contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash And dry hands
Body Protection :	Complete suit protecting against chemicals, The type of protective equipment must be Selected according to the concentration and amount of the dangerous substance at the specific workplace
Environmental exposure controls:	Prevent further leakage or spillage if safe to do so. Do not let



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product Enter drains. Discharge into the environment must be avoided.

Respiratory Protection: For nuisance exposures use type P95(US) or type P1 (EUEN143) particle respirator. For higher level protection use type OV/AG/P99(US) or type ABEK-P2(EUEN143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH(US) or CEN(EU).

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Solid powder
Colour:	Light cream
Odour:	Slightly amine like
pH-value:	No data available
Melting point/Melting range:	Min.142°C
Boiling point/Boiling range:	307°C
Flash point :	138°C(open cup)
Explosive propertive :	Dust explosion hazard
Flammability (solid, gas) :	No data available
Explosion Limits :	10g/m ³
Vapour pressure :	Negligible
Specific gravity :	1.4
Solubility :	Insoluble in water and soluble in Acetone and Chloroform
Partition coefficient :	1.76
Auto-ignition temperature :	>400°C
Viscosity @25°C :	Not applicable
Oxidizing properties :	Not applicable

10. STABILITY AND REACTIVITY

Reactivity	See Incompatible Materials
Chemical stability	Stable under recommended storage and handling conditions
Possibility of hazardous reactions	No data available
Conditions to avoid	High temperature and contact with oxidizing agents Alkalis, and acids
Incompatible materials:	Oxidizing agents, Acids, Alkalis and Nitro sating gents for example. nitrites, nitrates and nitrogen oxides.
Hazardous decomposition products :	Heating or fire can release toxic gas Nitrogen oxides(NOx), Sulphur dioxide(SO2), Carbon oxides(COx)

11. TOXICOLOGICAL INFORMATION

Acute toxicity: (LD50/oral/rat)	1080 mg/Kg
Acute dermal	>7900mg/Kg



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toxicity(LD50/dermal/rabbit

Inhalation :

Skin irritation / sensitisation

Reproductive toxicity :

Eye irritation

Germ cell mutagenicity :

Carcinogenicity :

rat:4.42mg/l

Irritating to skin, Sensitization possible through Skin contact

No toxicity to reproduction

Irritating to eyes

Shows mutagenic effects in animal experiments

Negative in standard tests using bacteria and

Yeast cells

12. ECOLOGICAL INFORMATION

Eco toxicity :

Eco toxicity 96h-LC50(Oncorhynchusmykiss):0.13mg/l, Fish
96h-LC50 (Lepomismacrochirus): 0.13mg/l, Daphnia
96h-LC50 (Pimephalespromelas): 0.27mg/l. Algae 48h-EC50
(Daphniamagna): 0.24mg/l. Bacteria; :96h-LC50 :1.0mg/l
(Chlorelapyrenoidosa) 15min-EC50: 1.9mg/l
(Photobacteriumphosphoreum)

Mobility in soil

No data available

Persistence and degradability:

The substance is substantially bio degradable. There is
evidence of photo degrade at ion in water

Bio accumulative potential:

The substance has low potential for bioaccumulation

Results of PBT and vPvB assessment :

PBT/ vPvB assessment not available as chemical safety
assessment not required/ not conducted

13. DISPOSAL CONSIDERATIONS

Waste Disposal methods

Product:

Avoid discharge into the environment. This material and its
container must be disposed of as hazardous waste. Disposal
should be in accordance with local, state of national
legislation

Contaminated Packing

Dispose off in accordance with local regulations

14. TRANSPORT INFORMATION

Road transport (ADR/RID/ADN)

ADR/RID Class

9

UN-No

3077

Packing Group

III

Proper Shipping Name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(Tetra Methyl thiuram disulphide)

Sea transport (IMDG)

ADR/RID Class

9

UN-No

3077

Packing Group

III



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Marine pollutant	YES
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Tetra Methyl thiuram disulphide)
Air transport (ICAO-TI/IATA)	
ADR/RID Class	9
UN-No	3077
Packing Group	III
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Tetra Methyl thiuram disulphide)

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture
Chemical safety assessment:

Regulation 1907/2006 REGULATION (EC)No 1272/2008
Classification according to EU directives 67/548/EEC or 1999/45/EC

For this product a chemical safety assessment was not carried out

16. OTHER INFORMATION

Emergency seek Medical Aid