

	EAST COAST ORGANICS PVT LTD, 237/2, Vellivoyal Chavadi, Chennai – 600 103	Format No:	ECO/QC/MSDS/003
		Issue No:	01
		Rev No:	00
	MATERIAL SAFETY DATA SHEET		Date:

SODIUM DIETHYL DI THIOCARBAMATE 25 % SOLUTION

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name	Sodium Diethyl Dithio Carbamate
Company Identification	237/2, Vellivoyal Chavadi Chennai – 600 103 Tamilnadu .
Phone No	904-333-9509

2. COMPOSITION / INDORMATION OF INGREDIENTS

Chemical description	Sodium Diethyl Dithio Carbamate		
CHEMICAL NAME	CAS NO.	EINECS NO	WT%
Sodium Diethyl Dithio Carbamate	20624-25-3	205-710-6	24-26
Water	7732-18-5	-	74-76

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	R22, R38, R 41
Classification of the substance or mixture	Acute toxicity, oral: cat 4; Skin corrosion/irritation: cat 2; Serious eye damage/eye irritation: cat 1

Label elements :

Hazard Statements	H302- Harmful if swallowed H315 - Causes skin irritation. H318 - Causes serious eye damage.
Precautionary Statements Prevention	P280- Wear protective gloves/ eye protection/ face protection. P264 - Wash hands & skin thoroughly after handling
Precautionary Statements Response	P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P302 + P352 IF ON SKIN: wash with plenty of soap and water
Precautionary Statements - Storage	P403 + P233+P235- Store in a well-ventilated place. Keep container tightly closed Keep cool.
Precautionary Statements - Disposal	P501- Dispose of contents/ container to an approved waste disposal plant.

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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. In case of allergic reaction after exposure, any future exposure must be avoided.
Inhalation	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician
Skin Contact :	In case of contact, immediately wash with plenty of soap and water Seek medical attention.
Eye Contact :	Rinse immediately as long as a possible with plenty of water. Seek medical advice if irritation persist
Ingestion :	If victim is conscious and alert, give 1-2 glasses of water to drink. Do not give anything by mouth to an unconscious person. Seek medical attention. Do not leave victim unattended.
Most important symptoms and effects, both acute and delayed	<ul style="list-style-type: none"> • To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. • Some dithiocarbamates have been reported to have teratogenic and/or carcinogenic potential and to affect male reproductive capacity. • Exposure to thiocarbamates or thiurams and the intake of even small amounts of ethyl alcohol results in flushing, breathing difficulty, nausea, vomiting, and low blood pressure. • Sensitization to alcohol may last as long as 6 to 14 days after exposure to these compounds. • A serious toxic interaction has been observed in rats fed tetraethylthiuram and then exposed to vapors of 1,2-dibromoethane. NIOSH stated that similar toxic interactions may occur between chemical

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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 (NO _x), Sulphur oxides, Sodium oxides
Protective Equipment and Precautions for Firefighters	Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing

6. ACCIDENTAL RELEASE MEASURES:

Personal precautions, protective equipment and emergency procedures: Environmental precautions:	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. 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:	Stop leakage if possible. Collect as much as possible in a clean container for (preferable) reuse or disposal.

7. HANDLING AND STORAGE:

Precautions for safe handling:	<ul style="list-style-type: none"> • Avoid breathing vapors and mists. • Avoid direct or prolonged contact with skin and eyes. • Personal protective equipment. • The usual precautions for handling chemicals should be observed
Conditions for safe storage, including any incompatibilities & Storage:	<ul style="list-style-type: none"> • Store in cool place. • Keep container tightly closed in a dry and well-ventilated place. • Store under inert gas.

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8. EXPOSURE CONTROL / PERSONAL PROTECTION:

Control parameters	Components with workplace 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) or EN 166(EU).
Skin Protection :	Skin contact should be minimized through use of gloves and suitable long-sleeved clothing. 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 product enter drains. Discharge into the environment must be avoided.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Liquid
Colour:	Light yellow
Odour:	Characteristic (weak)
pH-value:	9.0 – 10.0
Melting point/Melting range:	No data available
Boiling point/Boiling range:	>100°C
Flash point :	No data available
Explosive propertive :	No data available
Flammability (solid, gas) :	No data available
Explosion Limits :	No data available
Vapour pressure :	approx. 2.2 kPa (20 °C)
Specific gravity :	1.10 g/cm ³ C
Vapour Density :	5.9
Solubility :	Soluble in water
Partition coefficient :	No data available
Auto-ignition temperature :	No data available
Viscosity @25°C :	Not determined
Oxidizing properties :	No data available

10. STABILIT AND REACTIVITY

Reactivity	See Incompatible Materials
Chemical stability	No data available
Possibility of hazardous reactions	No data available
Conditions to avoid	Avoid temperature above 30°C
Incompatible materials:	Oxidising agents& strong Acids
Hazardous decomposition products :	
Thermal decomposition :	Carbon disulfide and Diethyl amine

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11. TOXICOLOGICAL INFORMATION

Acute toxicity:	
(LD50/oral/rat)	1500mg/kg
Inhalation :	No data available
Skin irritation / sensitisation	Slightly irritating to skin but not sufficient for classification. Not sensitizing
Reproductive toxicity :	No data available
Eye irritation	Slightly irritating to skin but not sufficient for classification
Germ cell mutagenicity :	Genotoxicity in vitro - rat – Liver DNA damage Genotoxicity in vitro - rat – lymphocyte DNA inhibition Genotoxicity in vitro - Hamster – ovary Cytogenetic analysis
Carcinogenicity :	IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans

12. ECOLOGICAL INFORMATION

Eco toxicity :	No data available
Mobility in soil	No data available
Persistence and degradability:	No data available.
Bio accumulative potential:	No data available.
Results of PBT and vPvB assessment :	No data available

13. DISPOSAL CONSIDERATIONS

Waste Disposal methods

Product:	<ul style="list-style-type: none"> • Offer surplus and non-recyclable solutions to a licensed disposal company. • Contact a licensed professional waste disposal service to dispose of this material. • Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
Contaminated Packing	<ul style="list-style-type: none"> • Clean and Dispose of as unused product

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14. TRANSPORT INFORMATION

Road transport (ADR/RID/ADN)

ADR/RID Class	Not regulated
UN-No	Nil
Packing Group	Nil
Proper Shipping Name	Not dangerous goods

Sea transport (IMDG)

ADR/RID Class	Not regulated
UN-No	Nil
Packing Group	Nil
Marine pollutant	No
Proper Shipping Name	Not dangerous goods

Air transport (ICAO-TI/IATA)

ADR/RID Class	Not regulated
UN-No	Nil
Packing Group	Nil
Proper Shipping Name	Not dangerous goods

15. REGULATORU INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture	Regulation 1907/2006 REGULATION (EC) No 1272/2008 Classification according to EU directives 67/548/EEC or 1999/45/EC
Chemical safety assessment:	For this product a chemical safety assessment was not carried out

16. OTHER INFORMATION

Emergency seek Medical Aid