

**MATERIAL SAFETY DATA SHEET (MSDS)****SODIUM DIETHYL DITHIOCARBAMATE****1. Product Identification**

**Synonyms:** Dithiocarb Trihydrate; Sodium Diethyldithiocarbamate Trihydrate  
**CAS No.:** 20624-25-3

Product Coad: S0187800100

**Molecular Weight:** 225.31  
**Chemical Formula:** C<sub>5</sub>H<sub>10</sub>NNaS<sub>2</sub>.3H<sub>2</sub>O

**2. Composition/Information on Ingredients**

CAS#	Chemical Name	Percent	EINECS/ELINCS
20624-25-3	DIETHYL CARBAMODITHIOIC ACID SODIUM SALT TRIHYDRATE	app.100	unlisted

**3. Hazards Identification**

## EMERGENCY OVERVIEW

Appearance: white to yellow powder.

Caution! May be harmful if swallowed. May cause eye irritation. May cause respiratory and digestive tract irritation. Hygroscopic (absorbs moisture from the air).

Target Organs: None.

Potential Health Effects

Eye: May cause eye irritation.

Skin: May cause skin irritation.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May be harmful if swallowed. May cause fainting, cyanosis (bluish discoloration of skin due to deficient oxygenation of the blood), hypotension, arrhythmias, and seizures.

Inhalation: May cause respiratory tract irritation.

Chronic: Dithiocarbamate compounds may cause cancer.

**4. First Aid Measures**

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Ingestion: Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

Inhalation: Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Notes to Physician: Treat symptomatically.

**5. Fire Fighting Measures**

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas.

Extinguishing Media: Use agent most appropriate to extinguish fire. Do NOT get water inside containers. Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Flash Point: Not available.

Autoignition Temperature: Not available.

Explosion Limits, Lower: N/A

Upper: N/A

NFPA Rating: (estimated) Health: 1; Flammability: 0; Instability: 1

**6. Accidental Release Measures**

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation. Do not get water inside containers.

**7. Handling and Storage**

CHAITANYA CHS, 2<sup>nd</sup> FLOOR, OFFICE # 206, SIDDHARTH NAGAR, S.V.ROAD, GOREGAON (W), MUMBAI 400062, MH, INDIA.  
CONTACT: +9122 28725393 /94/ 95 | EMAILID: CARE@SUVCHEM.COM

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Handling: Wash thoroughly after handling. Use only in a well-ventilated area. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Do not allow contact with water. Keep from contact with moist air and steam.

Storage: Store in a cool, dry place. Keep container closed when not in use. Store protected from moisture.

#### 8. Exposure Controls, Personal Protection

Engineering Controls: Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
DIETHYLCARBAMODITHIOIC ACID SODIUM SALT TRIHYDRATE	none listed	none listed	none listed

OSHA Vacated PELs: DIETHYLCARBAMODITHIOIC ACID SODIUM SALT TRIHYDRATE: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

#### 9. Physical and Chemical Properties

Physical State: Powder

Appearance: white to yellow

Odor: none reported

pH: Not available.

Vapor Pressure: Not available.

Vapor Density: 5.9

Evaporation Rate: Not available.

Viscosity: Not available.

Boiling Point: Not available.

Freezing/Melting Point: 95.00 - 98.50 deg C

Decomposition Temperature: Not available.

Solubility: insoluble in ether, benzene

Specific Gravity/Density: Not available.

Molecular Formula: C<sub>5</sub>H<sub>10</sub>NNaS<sub>2</sub>.3H<sub>2</sub>O

Molecular Weight: 225.31

#### 10. Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: High temperatures, incompatible materials, dust generation, moisture, excess heat, oxidizers.

Incompatibilities with Other Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Nitrogen oxides, carbon monoxide, oxides of sulfur, irritating and toxic fumes and gases, carbon dioxide.

Hazardous Polymerization: Has not been reported

#### 11. Toxicological Information

RTECS#:

CAS# 20624-25-3: EZ6550000

LD50/LC50:

CAS# 20624-25-3:

Oral, mouse: LD50 = 1500 mg/kg;

Oral, rat: LD50 = 1500 mg/kg; <br.

Carcinogenicity:

CAS# 20624-25-3: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: Certain dithiocarbamic compounds have been reported to cause adverse fetal and reproductive effects. In addition, these compounds may have carcinogenic potential.

Teratogenicity: No information available.

Reproductive Effects: No information available.

Mutagenicity: No information available.

Neurotoxicity: No information available.

Other Studies: <br.

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#### 12. Ecological Information

No information available.

#### 13. Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

#### 14. Transport Information

	US DOT	Canada TDG
Shipping Name:	Not regulated as a hazardous material	No information available.
Hazard Class:		
UN Number:		
Packing Group:		

#### 15. Regulatory Information

US FEDERAL

TSCA

CAS# 20624-25-3 is not on the TSCA Inventory because it is a hydrate. It is considered to be listed if the CAS number for the anhydrous form is on the inventory (40CFR720.3(u)(2)).

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs

None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

SARA Codes

CAS # 20624-25-3: acute.

Section 313 No chemicals are reportable under Section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depleters.

This material does not contain any Class 2 Ozone depleters.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 20624-25-3 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

XN

Risk Phrases:

R 22 Harmful if swallowed.

Safety Phrases:

WGK (Water Danger/Protection)

CAS# 20624-25-3: 2

Canada - DSL/NDSL

None of the chemicals in this product are listed on the DSL or NDSL list. Canada - WHMIS

This product has a WHMIS classification of D2B.

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Canadian Ingredient Disclosure List

**16. Other Information**

**Product Use:** Laboratory Reagent.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

**DISCLAIMER:**

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

**End of document**