



Section 1 - Chemical Product and Company Identification

Product Name 1,1,1,3,3,3-Hexamethyldisilazane pure (HMDS), 98%
Product Code 28437
CAS No 999-97-3
Use for Laboratory Chemicals.
Company Name Sisco Research Laboratories Pvt. Ltd.
Address 608, B Wing, Satellite Gazebo, Andheri Ghatkopar Link Road,
Andheri (E), Mumbai - 400 099, India

Section 2 - Composition/Information on Ingredients

CAS#	Chemical Name	%	EINECS#
999-97-3	Hexamethyldisilazane pure (HMDS)	98	213-668-5

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Highly flammable. Harmful by inhalation, in contact with skin and if swallowed. Causes burns. Moisture sensitive.

Potential Health Effects

Eye: Causes eye burns.

Skin: Harmful if absorbed through the skin. Causes skin burns.

Ingestion: Harmful if swallowed. Causes gastrointestinal tract burns.

May cause nausea and vomiting.

Inhalation: Harmful if inhaled. Causes chemical burns to the respiratory tract. Inhalation may be fatal as a result of spasm, inflammation, edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema.

Chronic:

Section 4 - First Aid Measures

Eyes: Immediately 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 immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: Get medical aid immediately. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

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 and supportively.

Section 5 - Fire Fighting Measures



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General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors can travel to a source of ignition and flash back. Will burn if involved in a fire.

Flammable liquid and vapor.

Extinguishing Media: Do NOT use water directly on fire. Use foam, dry chemical, or carbon dioxide

Section 6 - Accidental Release Measures

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

Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Remove all sources of ignition. Use a spark-proof tool.

Section 7 - Handling and Storage

Handling: Use spark-proof tools and explosion proof equipment. Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Take precautionary measures against static discharges. Use only in a chemical fume hood.

Storage: Room Temperature. Store in a cool, dry place. Store in a tightly closed container. Flammables-area. Store under nitrogen.

Section 8 - Exposure Control / Personal Protection

Personal Protective Equipment

Respiratory Protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand Protection: The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Handle with gloves.

Eye Protection: Safety glasses

Skin and body protection: Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Section 9 - Physical and Chemical Properties

Physical State: Liquid
Boiling Point: 123-126 deg C
Specific Gravity/Density: 0.773-0.775
Molecular Formula: C₆H₁₉NSi₂
Molecular Weight: 161.40



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Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.
Conditions to Avoid: Incompatible materials, ignition sources, temperatures above 150°C, exposure to moist air or water.

Incompatibilities with

Other Materials : Strong oxidizing agents, strong acids.

Hazardous Decomposition

Products : Nitrogen oxides, carbon monoxide, carbon dioxide, silicon dioxide, ammonia.

Hazardous Polymerization: Will not occur.

Section 11 - Toxicological Information

RTECS#: CAS# 999-97-3: JM9230000

LD50/LC50: RTECS:

CAS# 999-97-3: Dermal, guinea pig: LD50 = 1 ml/kg;

Draize test, rabbit, skin: 500 uL Severe;

Inhalation, mouse: LC50 = 12 gm/m³/2H;

Inhalation, rat: LC50 = 8700 mg/m³/4H;

Oral, mouse: LD50 = 850 mg/kg;

Oral, rabbit: LD50 = 1100 mg/kg;

Oral, rat: LD50 = 850 mg/kg;

Skin, rabbit: LD50 = 710 ml/kg;

Carcinogenicity: 1,1,1,3,3,3-Hexamethyldisilazane - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Other: See actual entry in RTECS for complete information. The toxicological properties have not been fully investigated.

Section 12 - Ecological Information

Not available

Section 13 - Disposal Considerations

Product: Observe all federal, state, and local environmental regulations. 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 packaging: Dispose of as unused product.

Section 14 - Transport Information

IATA IMO RID/ADR

Shipping Name: Flammable Liquid, Toxic, Corrosive, N.O.S.Hexamethyldisilazane pure (HMDS)

Hazard Class: 3 (6.1) 3 (6.1) 3 (6.1)

UN Number: 3286 3286 3286

Packing Group: II II II

Section 15 - Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.



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Section 16 - Other Information

Sisco Research Laboratories Pvt. Ltd. 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. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.