

**MATERIAL SAFETY
DATA SHEET**

Peace Modern Town C-2408, Dalian, 116023, China
Tel: +86-411-84377919 Fax: +86-411-84511565
Web: www.sibond.com E-mail: info@sibond.com

NAME USED ON LABEL: HEPTAMETHYLDISILAZANE
CHEMICAL NAME: HEPTAMETHYLDISILAZANE
SYNONYMS: BIS(TRIMETHYLSILYL)METHYLAMINE
CHEMICAL FAMILY: ORGANOSILANE
FORMULA: C₇H₂₁NSi₂
HMIS CODES HEALTH: 3 FLAMMABILITY: 3 REACTIVITY: 1

INGREDIENTS

IDENTITY	CAS NO.	%	TLV
HEPTAMETHYLDISILAZANE	920-68-3	>95	not established

PHYSICAL DATA

Boiling Point: 148-50°C	Freezing Point: <0°C
Specific Gravity: 0.798	Vapor Pressure, 20°: <20mm
Vapor Density (air=1): >1	Solubility in water: insoluble, reacts
% volatiles: 100	Evaporation rate (butyl acetate = 1): ~1
Molecular Weight: 175.42	Other: NA
Appearance & Color: Clear liquid with amine odor.	

FIRE & EXPLOSION DATA

Flash Point, COC: 27°C (80°F) Autoignition Temp.: not determined
Flammability Limits: not determined
Extinguishing Media: Water spray, foam, carbon dioxide, dry chemical.
Special Fire Fighting Procedures: Avoid eye and skin contact. Do not breathe fumes or inhale vapors.
Unusual Fire and Explosion Hazards: Irritating fumes and organic acid vapors may develop when material is exposed to elevated temperatures or open flame.
Liquid generates strong static charge when poured.

ENVIRONMENTAL INFORMATION

Spill response: May be hazardous to aquatic life if released to open waters. Cover spill with absorbent material. Transfer to a suitable container for disposal.
Recommended Disposal: May be incinerated. Alternately, absorb onto clay or vermiculite and dispose of absorbent material as solid waste. Follow all chemical pollution control regulations.

HEALTH HAZARD DATA

Heptamethyldisilazane reacts with moisture in living tissue to generate methylamine.

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Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose, LC: Lethal Concentration; H: hour; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; HMIS: Hazardous Material Information System; CAS No.: Chemical Abstract Service Registration Number
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Eye Contact: Vapors may cause immediate or delayed severe eye irritation. Liquid will cause severe conjunctivitis and corneal damage
Skin contact: May produce irritation or contact dermatitis which may be delayed several hours. Prompt and thorough washing with soap and water will reduce or eliminate potential dermal effects.
Inhalation: Inhalation of vapors or particulates will irritate the respiratory tract. Overexposure may produce coughing, headache and nausea.
Oral Toxicity: not determined
Chronic Toxicity: There are no known chronic effects related to this compound.

SUGGESTED FIRST AID

EYES: In case of contact, immediately flush eyes with flowing water for at least 15 minutes. Get medical attention.

SKIN: Flush with water, then wash with soap and water.

INHALATION: Move exposed individual to fresh air. Call a physician.

INGESTION: Never give fluids or induce vomiting if patient is unconscious or having convulsions. Get medical attention.

REACTIVITY DATA

Stability: Stable in sealed containers in a cool place.

Conditions to avoid: Combustible; avoid contact with heat, sparks or open flame.

Incompatibility (materials to avoid): Reacts with water and moisture in air liberating methylamine. Avoid contact with peroxides, oxidizing agents, alcohols, acids.

Hazardous decomposition products: Organic Acid Vapors, methylamine

SPECIAL PROTECTION INFORMATION

Ventilation: Local exhaust is required. Mechanical is recommended.

Respiratory Protection: If exposure exceeds TLV air-supplied or combination organic vapor amine gas respirator.

Eye and Face Protection: Chemical worker's goggles. Do not wear contact lenses.

Other Clothing and Equipment: Rubber, neoprene or nitrile gloves. An eyewash and emergency shower should be available. Launder clothing before reuse.

OTHER PRECAUTIONS

Heptamethyldisilazane is known to have a tendency to accumulate static charge. The user must take extreme care to dissipate static charge by grounding of all equipment involved in liquid transfer.

For research and industrial use only.

Storage and Handling: Store in sealed containers.

TRANSPORTATION

DOT SHIPPING NAME: FLAMMABLE LIQUID, N.O.S.
(HEPTAMETHYLDISILAZANE)

DOT HAZARD CLASS: 3

DOT LABELS: Flammable Liquid

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