

MATERIAL SAFETY DATA SHEET

NAME USED ON LABEL: (N,N-DIETHYLAMINOPROPYL)TRIMETHOXYSILANE

CHEMICAL NAME:(N,N-DIETHYLAMINOPROPYL)TRIMETHOXYSILANE SYNONYMS: N-(3-TRIMETHOXYSILY)PROPYL-N,N-DIETHYLAMINE

CHEMICAL FAMILY: ORGANOSILANE

FORMULA: C₁₀H₂₅N₂O₂Si

HMIS CODES HEALTH: 2 FLAMMABILITY: 2 REACTIVITY: 1

INGREDIENTS

IDENTITY

(N,N-DIETHYLAMINOPROPYL)TRIMETHOXYSILANE CAS NO. % TLV OSHA PEL 41051-80-3 >95 not established

(ACGIH TLV -amines: 10ppm)

METHANOL 67-56-1 <5% 200ppm - skin

PHYSICAL DATA

Boiling Point: 120° at 20mm Freezing Point: <0°

Specific Gravity: 0.934 Vapor Pressure, 25°: <1mm Vapor Density (air=1): >1 Solubility in water: reacts Evaporation rate: N/A

Molecular Weight: 235.40 Other: NA

Appearance & Color: Clear to straw liquid with amine (ammonia-like) odor.

FIRE & EXPLOSION DATA

Flash Point, COC: 100°C (212°F) Autoignition Temp.: not determined

Flammability Limits- LEL: NA UEL: NA

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.

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: Hydrolyze material by mixing with water in a hood. Organic layer may be incinerated. Alternately, absorb onto clay or vermiculite and dispose of absorbent material as solid waste. Follow all chemical pollution control regulations.

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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 Sibond © 2010

HEALTH HAZARD DATA

Eye Contact: Vapors may cause immediate or delayed severe eye irritation. Liquid can cause severe conjunctivitis and corneal damage. This product slowly releases methanol.

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 of aminoalkylsilanes 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.

NOTE TO PHYSICIAN: This product reacts with water in the acid contents of the stomach to form methanol. The combination of visual disturbances, metabolic acidosis and formic acid in urine is evidence of methanol poisoning. The therapeutic intravenous administration of ethanol (10 mls/hour) allows methanol to be preferentially oxidized and reduces production of methanol metabolites. Acidosis must be treated with intravenous administration of sodium bicarbonate and methanol elimination may be increased by hemodialysis, as indicated. Treatment should be based on blood methanol levels and acid-base balance.

REACTIVITY DATA

Stability: Stable in sealed containers stored at temperatures not exceeding 40°C. Conditions to avoid: Combustible; avoid contact with heat, sparks or open flame. Incompatibility (materials to avoid): Reacts with water and moisture in air liberating methanol. Avoid contact with peroxides, oxidizing agents, alcohols, acids.

Hazardous decomposition products: Organic Acid Vapors.

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

For research and industrial use only.

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Storage and Handling: Store in sealed containers.

TRANSPORTATION

DOT SHIPPING NAME: COMBUSTIBLE LIQUID, N.O.S.

DOT HAZARD: Not regulated DOT LABELS:Not Regulated DOT ID No: Not Regulated

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