a Supplier of Silicones from China

MATERIAL SAFETY DATA SHEET

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NAME ON LABEL:
N-(2-AMINOETHYL)-3-AMINOPROPYLTRIMETHOXYSILANE
CHEMICAL NAME:
N-(2-AMINOETHYL)-3-AMINOPROPYLTRIMETHOXYSILANE
SYNONYMS: N -[3-(TRIMETHOXYSILYL)PROPYL]ETHYLENEDIAMINE
CHEMICAL FAMILY: ORGANOSILANE
FORMULA: C8H22N2O3Si
HMIS CODES HEALTH: 3 FLAMMABILITY: 1 REACTIVITY: 1

INGREDIENTS

IDENTITY
N-(2-AMINOETHYL)-3-AMINOPROPYLTRIMETHOXYSILANE

CAS NO.	%	TLV	OSHA PEL
1760-24-3	>95	not established	not established

(recommended PEL-SKIN based on methanol: TWA 200ppm)

PHYSICAL DATA

Boiling Point: 140°C at 15mm
Freezing Point: <0°C
Specific Gravity: 1.01
Vapor Pressure, 25°: <1mm
Vapor Density: NA
Solubility in water: reacts
% volatiles: <5
Evaporation rate (butyl acetate=1): <1
Molecular Weight: 226.36
Other: NA
Appearance & Color: Clear to straw liquid with mild amine (ammonia-like) odor.

FIRE & EXPLOSION DATA

Flash Point, COC: 137°C (277°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.

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.

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

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, aerosols or particulates of aminoalkylsilanes will irritate the respiratory tract. Overexposure may produce coughing, headache and nausea.
Oral Toxicity - rat, LD50: 7460mg/kg
Chronic Toxicity: There are no known chronic effects related to this compound.
Other: intravenous-mouse, LD50: 180mg/kg

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. Treat as caustic burn.
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.
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, methanol

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.

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OTHER PRECAUTIONS

For research and industrial use only.
Storage and Handling: Store in sealed containers.

TRANSPORTATION

DOT SHIPPING NAME: CHEMICALS, NOI.
DOT HAZARD: Not regulated
DOT LABELS:Not Regulated
DOT ID No: Not Required

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