a Supplier of Silicones from China

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: VINYLTRIS(METHOXYETHOXY)SILANE
CHEMICAL NAME: VINYLTRIS(METHOXYETHOXY)SILANE
SYNONYMS: TRIS(METHOXYETHOXY)ETHENYLSILANE
CHEMICAL FAMILY: ORGANOSILANE ESTER
FORMULA: $C_{11}H_{24}O_6Si$
HMIS CODES HEALTH: 3 FLAMMABILITY: 2 REACTIVITY: 1

INGREDIENTS

IDENTITY	CAS NO.	%	TLV OSHA PEL
VINYLTRIS(METHOXYETHOXY)SILANE	1067-53-4	>95	not established
2-METHOXYETHANOL	109-86-4	<3	5ppm(skin) 25ppm

PHYSICAL DATA

Boiling Point: 284-6°C
Melting Point: <0°C
Specific Gravity: 1.04
Vapor Pressure, 90°C: ~1mm
Vapor Density, air = 1: >1
Solubility in water: insoluble, reacts slowly
% volatiles: 100
Evaporation rate (Butyl Acetate = 1): <1
Molecular Weight: 280.39
Other: NA
Appearance & Color: Clear liquid, characteristic odor

FIRE & EXPLOSION DATA

Flash Point, TCC: 115°C (239°F) Autoignition Temp.: not determined
Flammability Limits: not determined
Extinguishing Media: Water spray or fog, 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: Sweep material and transfer to a suitable container for disposal.
Recommended Disposal: Incinerate. Follow all chemical pollution control regulations.

HEALTH HAZARD DATA

Eye Contact: May cause immediate or delayed severe eye irritation.
Skin contact: May produce irritation or contact dermatitis. Material generates methoxyethanol on contact with water or moisture in skin, eyes and mucous membranes a nd has an irritating, dehydrating effect on overexposed tissue.

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

Prompt and thorough washing with soap and water will reduce or eliminate potential dermal effects.
Inhalation: Inhalation may irritate the respiratory tract. Overexposure can cause lung damage - pulmonary toxin.
Note: The hydrolysis product of vinyltris(methoxyethoxy)silane is methoxyethanol. Methoxyethanol is a reproductive toxin. 2-Methoxyethanol is rapidly absorbed by all routes and undergoes hepatic metabolism to methoxyacetic acid. Exposure to methoxyethanol and methoxyacetic acid have been positively linked to the induction of reproductive toxicity and subtle birth defects (teratogenicity).
Oral Toxicity: oral-rat, LD50: 2,960mg/kg
Inhalation Toxicity: not determined

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. Admi nister oxygen if needed. Call a physician.
INGESTION: Never give fluids or induce vomiting if patient is unconscious or having convulsions. To conscious individual give one full cup of water to dilute ingested material. Get medical attention.

REACTIVITY DATA

Stability: Stable
Conditions to avoid: Material decomposes slowly in contact with moist air or with water liberating methoxyethanol; TLV(TWA) = 10ppm. Avoid contact with oxidizing agents.
Hazardous Polymerization: Can occur if product is heated over 120°C.
Hazardous decomposition products: Methoxyethanol, organic acid vapors and silicon dioxide.

SPECIAL PROTECTION INFORMATION

Ventilation: Local exhaust is required. Mechanical is recommended.
Respiratory Protection: If exposure exceeds TLV, NIOSH approved organic vapor 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

Caution: Exposure to potentially or imminently childbearing women should be restricted.
For research and industrial use only.
Storage and Handling: Store in sealed containers.

TRANSPORTATION

DOT SHIPPING NAME: CHEMICALS, NOI

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

DOT HAZARD CLASS: NOT REGULATED
DOT LABEL: NOT REQUIRED
DOT ID No: NOT REQUIRED

The information contained in this document has been gathered from reference materials and/or Sibond test data and is to the best knowledge and belief of Sibond accurate and reliable. Such information is offered solely for your consideration, investigation and verification. It is not suggested or guaranteed that the hazard precautions or procedures described are the only ones which exist. Sibond makes no warranties, express or implied, with respect to the use of such information and assumes no responsibility therefore.

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