



Material Safety Data Sheet

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name: SS 169
Chemical Name: Bis-[3-(triethoxysilyl)-propyl]-tetrasulfide
Company Identification: Primary Silane, 146 Cherokee Road, Hendersonville, Tennessee 37075
Contact: Phone: 615-430-6655 Fax: 615-523-2277 Emergency: 615-430-6655

SECTION 2 - COMPOSITION

CAS#: 40372-72-3
Components: Bis-[3-(triethoxysilyl)-propyl]-tetrasulfide

SECTION 3 - HAZARDS IDENTIFICATION

Ingestion: This product hydrolyzes in the stomach to form ethanol.

Inhalation: Inhalation may irritate the respiratory tract. Overexposure can cause lung damage.

Skin contact: May produce irritation or contact dermatitis. Material generates ethanol on contact with water or moisture in skin, eyes and mucous membranes and has an irritating, dehydrating effect on overexposed tissue. Prompt and thorough washing with soap and water will reduce or eliminate potential dermal effects.

Eye contact: Will cause immediate or delayed severe eye irritation.

SECTION 4 - FIRST AID MEASURES

Ingestion: Never give fluids or induce vomiting if patient is unconscious or having convulsions. If conscious, give individual one full cup of water to dilute ingested material. Get medical attention.

Inhalation: Remove to fresh air. Offer oxygen if needed. Obtain medical attention if symptoms persist.

Skin contact: Remove contaminated clothing. Wash skin with soap and water. Obtain medical attention if irritation persists. Wash clothing before reuse.

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

SECTION 5 - FIRE FIGHTING MEASURES

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

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

NFPA Rating: Not published.

Explosion Limits: Lower: N/A. Upper: N/A.

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., dry sand or earth), then place into a chemical waste container.

SECTION 7 - HANDLING and STORAGE

Handling: Use adequate local ventilation. Keep containers tightly closed when not in use.
Storage: Store between 40 and 90°F out of direct sunlight.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls: Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Personal Protective Equipment

Eyes: Wear safety glasses and chemical goggles if splashing is possible.
Skin: Wear appropriate protective gloves and clothing to prevent skin exposure.
Clothing: Wear appropriate protective clothing to minimize contact with skin.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid
Color: pale yellow to amber-colored
Odor: sulfur
Molecular weight: 538.94
Boiling point: 250°C (decomposition)
Melting point: -80°C
Flash point: >100°C
Flammability limits in air (% by volume): lower: not determined; upper : not determined
Specific gravity: 1.095 at 25°C
Vapor pressure: <1.0 mm Hg at 20°C
Vapor density (air=1): >1
Evaporation rate (butyl acetate = 1): <1
Solubility in water (% by weight): reacts slowly
Percent volatiles: <5%

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability: Stable under normal temperatures and pressures.
Conditions to Avoid: Avoid elevated temperatures.
Incompatibilities with Other Materials: Strong oxidizing agents - moist air or water.
Hazardous Decomposition Products: Ethanol, organic acid vapors and hydrogen sulfide.
Hazardous Polymerization: Has not been reported.

SECTION 11 - ECOLOGICAL INFORMATION

Ecotoxicity: Not determined.

SECTION 12 - DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations. Not listed as a material banned from land disposal according to RCRA.

SECTION 13 - REGULATORY INFORMATION

Labeling: Irritating to eyes and skin. Avoid contact with skin. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing. If swallowed seek medical advice immediately and show this container or label. FOR INDUSTRIAL USE ONLY

Not listed with OSHA for specific chemical standards, Clean Air Act (112) de minimus level for air pollutants, CERCLA reportable quantities, SARA Title III hazard classes or reportable substances, or TSCA export notification.

SECTION 14 - TRANSPORT INFORMATION

DOT SHIPPING NAME: CHEMICALS
DOT HAZARD CLASS: No label required.

SECTION 15 - ADDITIONAL INFORMATION

The information above is believed to be accurate and represents the best information currently available to Primary Silane. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, however arising, even if we have been advised of the possibility of such damages.