



Material Safety Data Sheet

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name: AS 111
Chemical Name: 3-Aminopropyltriethoxysilane
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#: 919-30-2
Components: 3-Aminopropyltriethoxysilane, 98%

SECTION 3 - HAZARDS IDENTIFICATION

Ingestion: Aspiration of liquid while vomiting may injure lungs seriously. Material is corrosive. May cause severe and permanent damage to the mouth, throat and stomach. Overexposure by ingestion may cause central nervous system depression, which may be characterized by drowsiness, dizziness, confusion, loss of coordination, unconsciousness, and with large quantities even death. Chronic ingestion exposure can injure kidneys.

Inhalation: Will cause severe respiratory tract irritation with sore throat, coughing, shortness of breath, and delayed lung edema. Causes chemical burns to the respiratory tract. Overexposure by inhalation may cause drowsiness, dizziness, confusion or loss of coordination. Chronic inhalation exposure can injure lungs, kidneys, and nervous system.

Skin contact: Causes severe irritation with discomfort, local redness, and possible swelling. Serious burns are possible. Chronic skin exposure can injure kidneys.

Eye contact: Causes severe irritation, experienced as discomfort of pain, excess blinking and tear production, with marked excess redness and swelling of the conjunctiva. Corneal injury may be severe, extensive, and, if not treated promptly, could result in permanent impairment of vision.

SECTION 4 - FIRST AID MEASURES

Ingestion: Only induce vomiting upon the advice of a physician. Obtain medical attention without delay. Never give anything by mouth to an unconscious victim.

Inhalation: Remove to fresh air. Obtain medical attention if condition worsens or persists.

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

Eye contact: Immediately flush eyes with water for 15 minutes. Obtain medical attention without delay, preferably from an ophthalmologist.

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, carbon dioxide, or water spray.

NFPA Rating: Health 3, Flammability 1, Instability/Reactivity 0.

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. Wash at break time, meal time, and end of shift.

Clothing: Wear appropriate protective clothing to minimize contact with skin.

Inhalation: If adequate ventilation is unavailable, wear properly fitting respirator with organic vapor cartridges or pressure-supplied respirator.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

Color: Clear

Odor: Slight amine

Molecular weight: 221

Boiling point: 217°C

Freezing point: <-70°C

Flash point: 96°C

Flammability limits in air (% by volume): lower : not determined; upper : not determined

Specific gravity: 0.94 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 with water

Percent volatiles: <2%

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Avoid elevated temperatures.

Incompatibilities with Other Materials: Acids, alkalis, alcohols, moist air, or water.

Hazardous Decomposition Products: carbon monoxide, carbon dioxide, nitrogen oxides, silicone.

Hazardous Polymerization: Has not been reported.

SECTION 11 - ECOLOGICAL INFORMATION

Carcinogenicity: Not listed IARC.

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.

CHEMICAL INVENTORY INFORMATION

TSCA: The ingredients of this product are on or exempted from the TSCA inventory.

SECTION 14 - TRANSPORT INFORMATION

DOT: Proper Shipping Name: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. Hazard Technical Name: GAMMA-AMINOPROPYLTRIETHOXYSILANE Hazard Class: 8 UN/NA Number: UN3267 Packing Group: II Hazard Label(s): CORROSIVE LABEL.

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.