

# SILQUEST\* A-1524 silane

SILANES - ADHESIVES & SEALANTS ADDITIVES



Silquest A-1524 silane, *gamma-Ureidopropyltrimethoxysilane*, is a 100-percent active ureidosilane that may be used to promote adhesion between a wide range of resins and substrates, fillers or reinforcements.

## Key Features and Typical Benefits

The chemical structure of Silquest A-1524 silane offers a number of important benefits:

Structural Features	Benefits
100% Active Ingredient	<ul style="list-style-type: none"> <li>Contains no flammable or combustible solvent. [Flash Point of 99°C (210°F) – Tag Closed Cup]</li> <li>Contains no alcoholic solvent diluent, making it a candidate for use in reactive polymer systems such as isocyanate-terminated polyurethane polymers</li> <li>Offers low VOC emissions</li> </ul>
Methoxysilane Ester	<ul style="list-style-type: none"> <li>Rapid attainment of bond strength</li> <li>Fast hydrolysis of silane ester group in resin systems</li> <li>Good water solubility</li> </ul>
Ureidofunctional Group	<ul style="list-style-type: none"> <li>Longer pot life (stability) than aminosilanes in reactive polymer systems such as phenolic, epoxy, ureamelamine or polyurethane</li> <li>Does not generate color with time and aging</li> <li>Provides nitrogen reactivity without the strong basic characteristics of typical aminosilanes</li> <li>Exhibits excellent urethane adhesive and sealant adhesion to oily metals</li> </ul>

## Typical Physical Properties

Physical Form	Viscous liquid
Color	Amber, clear, pale
Active Ingredients, %	100
Specific Gravity, 25/25°C	1.15
Refractive Index, $n_D$ 25°C	1.386
Flash Point <sup>(1)</sup> , Tag Closed Cup, °C (°F)	99 (210)
Boiling Point, 700 mm Hg, °C	217-250

(1) ASTM Method D56

## Solubility

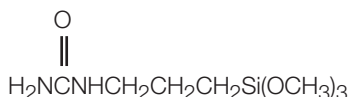
Silquest A-1524 silane is soluble in methanol, ethanol, acetone, toluene and water. Silquest A-1524 silane reacts with water and alcoholic solvents. Hydrolysis releases methanol. In water, a concentration of one weight percent is stable for approximately 72 hours.

## SILQUEST\* A-1524 Silane

### Potential Applications

Silquest A-1524 silane is recommended for evaluation when inorganic surfaces such as fiberglass, particulate fillers or metals are combined or over-coated with phenolic, urea-melamine, epoxy resins, polyamide and/or polyurethane polymers. The silane improves adhesion between the inorganic filler or fiber and the polymer. Specific applications in which Silquest A-1524 silane may be useful are in adhesives, sealants, glass fiber sizes and finishes, wool insulation resin binders, primers, foundry sand and abrasive grinding wheel binders.

### Chemical Structure



### Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

### Product Safety, Handling and Storage

Customers considering the use of this product should review the latest Material Safety Data Sheet and label for product safety information, handling instructions, personal protective equipment if necessary, and any special storage conditions required. Material Safety Data Sheets are available at [www.momentive.com](http://www.momentive.com) or, upon request, from any Momentive Performance Materials representative. Use of other materials in conjunction with Momentive Performance Materials products may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

### Limitations

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular applications.

## SILQUEST\* A-1524 Silane

### Emergency Service

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Momentive Performance Materials maintains an around-the-clock emergency service for its products. The American Chemistry Council (CHEMTREC) and CareChem24 International also maintain an around-the-clock emergency service for all chemical products:

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