

Silquest^{*} A-1524 Silane

Product Description

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

Momentive Performance Materials provides versatile materials as the starting point for our creative approach to ideas that help enable new developments across hundreds of industrial and consumer applications. We are helping customers

solve product, process, and performance problems; our silanes, fluids, elastomers, sealants, resins, adhesives, urethane additives, and other specialty products are delivering innovation in everything from car engines to biomedical devices.

From helping to develop safer tires and keeping electronics cooler, to improving the feel of lipstick and ensuring the reliability of adhesives, our technologies and enabling solutions are at the frontline of innovation.



Silquest* A-1524 Silane

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 ⁽¹⁾ , Tag Closed Cup, °C (°F)	99 (210)
Boiling Point, 700 mm Hg, °C	217-250

(1) ASTM Method D56

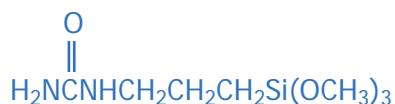
Solubility

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.

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 or, upon request, from any Momentive Performance Materials representative. Use of other materials in conjunction with Momentive Performance Materials products (for example, primers) 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.

Emergency Service

Momentive Performance Materials maintains an around-the-clock emergency service for its products. The American Chemistry Council (CHEMTREC), Transport Canada (CANUTEC), and the Chemical Emergency Agency Service also maintain an around-the-clock emergency service for all chemical products:

Location	Momentive Performance Materials Products	All Chemical Products
Mainland U.S., Puerto Rico	518.233.2500	CHEMTREC: 800.424.9300
Alaska, Hawaii	518.233.2500	CHEMTREC: 800.424.9300
Canada	518.233.2500	CANUTEC: 613.996.6666 (collect) or CHEMTREC: 800.424.9300
Europe, Middle East, Africa	+32.(0)14.58.45.45 (Belgium)	CHEMTREC: +1-703.527.3887 (collect)
Latin America, Asia/Pacific, all other locations worldwide	+518.233.2500	CHEMTREC: +1-703.527.3887 (collect)
At sea	Radio U.S. Coast Guard, which can directly contact Momentive Performance Materials at 518.233.2500 or CHEMTREC at 800.424.9300.	

DO NOT WAIT. Phone if in doubt. You will be referred to a specialist for advice.

Principal Locations

Regional Information	Phone	Fax
North America World Headquarters 187 Danbury Road Wilton, CT 06897, USA	800.295.2392	607.754.7517
Latin America Rodovia Eng. Constâncio Cintra, Km 78,5 Itatiba, SP – 13255-700 Brazil	+ 55.11.4534.9650	+ 55.11.4534.9660
Europe, Middle East, Africa and India Leverkusen Germany	00.800.4321.1000 + 31.164.293.276	+ 31.164.241750
Pacific Akasaka Park Building 5-2-20 Akasaka Minato-ku, Tokyo 107-6112 Japan	+ 81.3.5544.3100	+ 81.3.5544.3101
Customer Service Centers		
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	UA, Silanes, Resins, and Specialties 800.334.4674	304.746.1623
	RTV Products-Elastomers 800.332.3390	304.746.1623
	Sealants and Adhesives and Construction 877.943.7325	304.746.1654
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