

Silquest A-174* Silane

Product Description

Momentive Performance Materials Silquest A-174 silane is employed in adhesive and sealant systems cured via a free radical mechanism, such as polyesters, polyurethanes, acrylics, and many thermoplastics such as PVC, polyolefins and polyurethanes.

Key Features and Typical Benefits

Feature	Benefit
Methacryloxy Functionality	<ul style="list-style-type: none">For use in free radical cure adhesives and sealants based upon resin systems such as polyesters, polyurethanes, acrylics, and many thermoplastics such as PVC, polyolefins and polyurethanes.
Methoxy Silane Functionality	<ul style="list-style-type: none">Bonds to inorganic substrates to provide excellent wet and dry adhesion.Fast hydrolysis rate.

May be copolymerized with vinyl acetate, vinyl chloride, acrylates, or methacrylate monomers to yield a moisture curable silylated polymer. Such polymers may be incorporated into adhesive and sealant systems to enhance adhesion to substrates such as glass, metal and some plastics. (See SPUR* prepolymer-based technology literature for additional ideas regarding the benefits of silane crosslinked polymer chemistry).

May result in the enhancement of strength performance, both initially and after wet conditioning, of glass, silica, silicate, and metal oxide filled polyester resin systems.

Improves the wet electrical performance of many mineral-filled thermoplastic materials such as crosslinked polyethylene and polyvinylchloride.

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-174* Silane

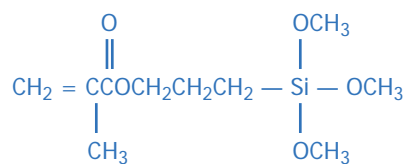
Typical Physical Properties

Appearance	Clear light straw liquid
Molecular Weight	248.1
Specific Gravity at 25/25°C	1.045
Refractive Index n_D 25°C	1.429
Flash Point, Tag Closed Cup, °C (°F)	108 (226)
Boiling Point, °C (°F)	255 (491)

Commercial Status

Silquest A-174 silane is commercially available. Contact your sales or customer service representative to enter a sample request, or place an order.

Chemical Structure



Gamma-Methacryloxypropyltrimethoxy Silane

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		
North America Charleston, WV 25314, USA E-mail: cs-na.silicones@momentive.com	Specialty Fluids 800.523.5862	304.746.1654
	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
Latin America Argentina and Chile Brazil Mexico and Central America Venezuela, Ecuador, Peru, Colombia, and Caribbean E-mail: cs-la.silicones@momentive.com	+ 54.11.4862.9544 + 55.11.4534.9650 + 52.55.5899.5135 + 58.212.285.2149	+ 54.11.4862.9544 + 55.11.4534.9660 + 52.55.5899.5138 + 58.212.285.2149
Europe, Middle East, Africa and India E-mail: cs-eur.silicones@momentive.com	00.800.4321.1000 + 31.164.293.276	+ 31.164.241750
Pacific E-mail: cs-ap.silicones@momentive.com Japan China Korea Singapore	+ 81.276.20.6182 + 86.21.5050.4666 (ext. 1523) + 82.2.6201.4600 + 65.6220.7022	
Worldwide Hotline Worldwide Web	800.295.2392 + 607.786.8131 www.momentive.com	+ 607.786.8309

THE MATERIALS, PRODUCTS AND SERVICES OF THE BUSINESSES MAKING UP MOMENTIVE PERFORMANCE MATERIALS INC., ITS SUBSIDIARIES AND AFFILIATES, ARE SOLD SUBJECT TO MOMENTIVE PERFORMANCE MATERIALS INC.'S STANDARD CONDITIONS OF SALE, WHICH ARE INCLUDED IN THE APPLICABLE DISTRIBUTOR OR OTHER SALES AGREEMENT, PRINTED ON THE BACK OF ORDER ACKNOWLEDGMENTS AND INVOICES, AND AVAILABLE UPON REQUEST. ALTHOUGH ANY INFORMATION, RECOMMENDATIONS, OR ADVICE CONTAINED HEREIN IS GIVEN IN GOOD FAITH, MOMENTIVE PERFORMANCE MATERIALS INC. MAKES NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, (i) THAT THE RESULTS DESCRIBED HEREIN WILL BE OBTAINED UNDER END-USE CONDITIONS, OR (ii) AS TO THE EFFECTIVENESS OR SAFETY OF ANY DESIGN INCORPORATING ITS PRODUCTS, MATERIALS, SERVICES, RECOMMENDATIONS OR ADVICE. EXCEPT AS PROVIDED IN MOMENTIVE PERFORMANCE MATERIALS INC. STANDARD CONDITIONS OF SALE, MOMENTIVE PERFORMANCE MATERIALS INC. BUSINESS AND ITS REPRESENTATIVES SHALL IN NO EVENT BE RESPONSIBLE FOR ANY LOSS RESULTING FROM ANY USE OF ITS MATERIALS, PRODUCTS OR SERVICES DESCRIBED HEREIN. Each user bears full responsibility for making its own determination as to the suitability of Momentive Performance Materials Inc.'s materials, services, recommendations, or advice for its own particular use. Each user must identify and perform all tests and analyses necessary to assure that its finished parts incorporating Momentive Performance Materials Inc.'s products, materials, or services will be safe and suitable for use under end-use conditions. Nothing in this or any other document, nor any oral recommendation or advice, shall be deemed to alter, vary, supersede, or waive any provision of Momentive Performance Materials Inc.'s Standard Conditions of Sale or this Disclaimer, unless any such modification is specifically agreed to in a writing signed by Momentive Performance Materials. No statement contained herein concerning a possible or suggested use of any material, product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right of Momentive Performance Materials Inc. or any of its subsidiaries or affiliates covering such use or design, or as a recommendation for the use of such material, product, service or design in the infringement of any patent or other intellectual property right.