



SPECIFIC POLYMERS

POLYMERS | MONOMERS | BUILDING-BLOCKS

R&D PRODUCTS PORTFOLIO

Battery



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SPECIFIC POLYMERS OVERVIEW

SPECIFIC POLYMERS (2003, Castries - FRANCE) is a SME acting as R&D services' provider in the field of functional monomers, polymers, coatings and materials with enhanced performances. For many years, major industrial groups and academic laboratories worldwide have relied on our technical skills to validate proof-of-concepts. The company's main purpose is to fill the gap between academic and industrial researches through our complete offer of R&D products and services. As a design office, our strength lies in the diversity of our knowledge, activities and application fields which contribute to our capacity to provide crossfertilization and breakthrough innovations.

Since its inception, SPECIFIC POLYMERS has already designed more than 10 000 innovative molecules for over 500 customers and partners in more than 50 countries. The products and programs developed are used for a very wide range of applications such as surface finishing (glass, metal, metal oxides, nanoparticles, plastics), construction industry, aeronautic, automotive (paint, pneumatics, sealant, gaskets), pharmaceutical industry, cosmetics, optoelectronic, optic, water treatment, metal extraction or energy (fuel cells, solar cells or lithium batteries).

Please avoid printing out and/or throwing away this product portfolio to preserve the environment. Foster the online version.

In spite of all efforts deployed by SPECIFIC POLYMERS, we cannot guarantee that the information on this portfolio is up-to-date, correct and complete. In case of doubt, don't hesitate to contact us for more information.

INDEX

BUILDING BLOCKS & MONOMERS PORTFOLIO

SP-3-ALKYL CHEMICALS

SP-3-00-ALKYL CARBOXYLIC/ESTER/CARBONATE

SP-4-(METH)ACRYLATE / (METH)ACRYLAMIDE CHEMICALS

SP-40-ACRYLATE - METHACRYLATE CARBOXYLIC/ESTER/CARBONATE

SP-49-OTHER FUNCTIONAL (METH)ACRYLATE - (METH)ACRYLAMIDE

SP-5-STYRENE CHEMICALS

SP-59-OTHER FUNCTIONAL STYRENE

SP-6-VINYL / ALLYL CHEMICALS

SP-68-FUNCTIONAL SUSTAINABLES

SP-69-VINYL/ALLYL AZIDE

FUNCTIONAL POLYMERS PORTFOLIO

SP-1P-POLYETHYLENE OXIDE / POLYPROPYLENE OXIDE / POLYTETRAMETHYLENE OXIDE

SP-1P-0-PEO/PPO CARBOXYLIC ACID /ESTER / CARBONATE

SP-1P-1-PEO/PPO PHOSPHONIC OR PHOSPHINIC ACID /ESTER

SP-1P-14-AMINO PEO/PPO PHOSPHONIC AND PRECURSORS

SP-1P-4-PEO/PPO AZIDE-AMINE

SP-1P-7-PEO/PPO VINYL / ALLYL / ACRYL / METHACRYL

SP-1P-9-PEO/PPO VARIOUS (MALEIMIDE, SUCCINIMIDE, HYDROXYBENZOIC, PROPARGYL)

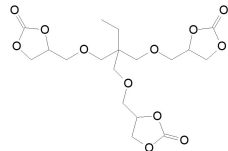
SP-4P-POLY(METH)ACRYLATE

SP-4P-1-POLY(METH)ACRYLATE PHOSPHONIC ESTER / ACID

SP-4P-6-POLY(METH)ACRYLATE CO STYRENE PHOSPHONIC ESTER / ACID

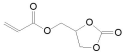
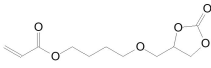
BUILDING BLOCKS & MONOMERS PORTFOLIO

SP-3-00-ALKYL CARBOXYLIC/ESTER/CARBONATE

Reference: SP-3-00-003	Product Name: TMP tricyclocarbonate CAS Number: 147876-32-2 Physical Aspect: Viscous liquid Mw: 434.39 Batch size: 25g ; 50g ; 100g ; 250g ; Bulk on demand For further information, access the product page here >	 <p>The chemical structure shows a central carbon atom bonded to three ethyl groups and three tricyclophosphoronyl groups. Each tricyclophosphoronyl group consists of a phosphorus atom double-bonded to one oxygen and single-bonded to two others, which are further bonded to a cyclohexane ring.</p>
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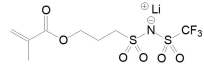
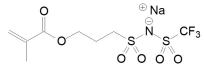
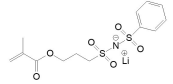
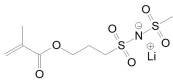
[↪ Return to index](#)

SP-40-ACRYLATE - METHACRYLATE CARBOXYLIC/ESTER/CARBONATE

<p>Reference: SP-40-010</p>	<p>Product Name: GCA CAS Number: 7528-90-7 Physical Aspect: Clear viscous Mw: 172.13 Batch size: 10g ; 25g ; 50g ; Bulk on demand For further information, acces the product page here ></p>	 <p>The chemical structure shows a glycidyl group (a three-membered epoxide ring) attached to a methacrylate backbone. The backbone consists of a central carbon atom bonded to a methyl group, a vinyl group, and a carboxylate group. The glycidyl group is connected to the carboxylate group via an ester linkage.</p>
<p>Reference: SP-40-011</p>	<p>Product Name: GCC4A CAS Number: 1612189-44-2 Physical Aspect: Yellow to brown liquid that could crystallize after storage at 4°C Mw: 244.24 Batch size: 10g ; 25g ; 50g ; 100g ; Bulk on demand For further information, acces the product page here ></p>	 <p>The chemical structure is similar to GCA, but the glycidyl group is connected to the methacrylate backbone via a longer ester linkage containing a four-carbon aliphatic chain. The backbone consists of a central carbon atom bonded to a methyl group, a vinyl group, and a carboxylate group. The glycidyl group is connected to the carboxylate group via an ester linkage that includes a four-carbon chain.</p>

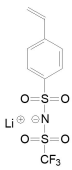
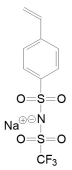
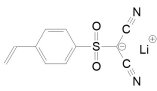
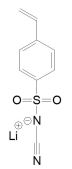
[↗ Return to index](#)

SP-49-OTHER FUNCTIONAL (METH)ACRYLATE - (METH)ACRYLAMIDE

<p>Reference: SP-49-023</p>	<p>Product Name: MTFSiLi CAS Number: 1426833-00-2 Physical Aspect: White to slightly orange powder Mw: 346.25 Batch size: 10g ; 25g ; 50g ; 100g ; Bulk on demand For further information, access the product page here ></p>	
<p>Reference: SP-49-028</p>	<p>Product Name: MTFSiNa CAS Number: 2605224-22-2 Physical Aspect: Solid Mw: N/D Batch size: 5g ; 10g ; 25g ; Bulk on demand For further information, access the product page here ></p>	
<p>Reference: SP-49-043</p>	<p>Product Name: MPhSiLi CAS Number: N/D Physical Aspect: Off-white powder Mw: 353.34 Batch size: 5g ; Bulk on demand For further information, access the product page here ></p>	
<p>Reference: SP-49-053</p>	<p>Product Name: MMeSiLi CAS Number: 2418586-59-9 Physical Aspect: Powder Mw: 291.27 Batch size: 5g ; 10g ; Bulk on demand For further information, access the product page here ></p>	

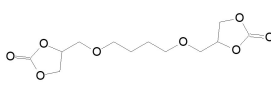
[↗ Return to index](#)

SP-59-OTHER FUNCTIONAL STYRENE

<p>Reference: SP-59-011</p>	<p>Product Name: STFSiLi CAS Number: 210226-98-5 Physical Aspect: White to slightly yellow powder Mw: 321.21 Batch size: 10g ; 25g ; 50g ; 100g ; Bulk on demand For further information, access the product page here ></p>	
<p>Reference: SP-59-012</p>	<p>Product Name: STFSiNa CAS Number: 1611453-85-0 Physical Aspect: Powder Mw: N/D Batch size: 5g ; 10g ; Bulk on demand For further information, access the product page here ></p>	
<p>Reference: SP-59-021</p>	<p>Product Name: SDICYLi CAS Number: 210043-57-5 Physical Aspect: Yellow powder Mw: 238,19 Batch size: 5g ; 10g ; 25g ; Bulk on demand For further information, access the product page here ></p>	
<p>Reference: SP-59-031</p>	<p>Product Name: SCYLi CAS Number: 2443494-96-8 Physical Aspect: Yellow powder Mw: 214.17 Batch size: 5g ; 10g ; 25g ; Bulk on demand For further information, access the product page here ></p>	

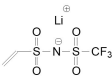
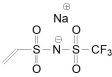
[↗ Return to index](#)

SP-68-FUNCTIONAL SUSTAINABLES

Reference: SP-68-021	Product Name: Butanediol bis(cyclocarbonate) CAS Number: 25844-34-2 Physical Aspect: White solid Mw: 290.27 Batch size: 25g ; 50g ; Bulk on demand For further information, acces the product page here >	
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[↗ Return to index](#)

SP-69-VINYL/ALLYL AZIDE

<p>Reference: SP-69-002</p>	<p>Product Name: VTFSiLi CAS Number: 210226-93-0 Physical Aspect: Powder Mw: 245,13 Batch size: 5g ; 10g ; 25g ; Bulk on demand For further information, access the product page here ></p>	
<p>Reference: SP-69-003</p>	<p>Product Name: VTFSiNa CAS Number: No Physical Aspect: Powder Mw: 261.2 Batch size: 5g ; 10g ; Bulk on demand For further information, access the product page here ></p>	

[↪ Return to index](#)

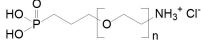
FUNCTIONAL POLYMERS PORTFOLIO

SP-1P-0-PEO/PPO CARBOXYLIC ACID /ESTER / CARBONATE

<p>Reference: SP-1P-0-003</p>	<p>Product Name: Poly(ethylene glycol), α,ω-bis(cyclocarbonate)</p> <p>CAS Number: 111519-97-2</p> <p>Physical Aspect: Yellow to brown viscous liquid</p> <p>Batch size: 25g ; 50g ; 100g ; 250g ; Bulk on demand</p> <p>Mn and/or Composition available in the product page here ></p>	
<p>Reference: SP-1P-0-004</p>	<p>Product Name: Poly(propylene glycol), α,ω-bis(cyclocarbonate)</p> <p>CAS Number: 111570-03-7</p> <p>Physical Aspect: Yellow to brown liquid</p> <p>Batch size: 25g ; 50g ; 100g ; 250g ; Bulk on demand</p> <p>Mn and/or Composition available in the product page here ></p>	

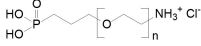
[↗ Return to index](#)

SP-1P-1-PEO/PPO PHOSPHONIC OR PHOSPHINIC ACID /ESTER

Reference: SP-1P-14-001	Product Name: Poly(ethylene glycol), α -ammonium chloride, ω -phosphonic acid CAS Number: N/D Physical Aspect: Yellow Wax to powder Batch size: 5g ; 10g ; Bulk on demand Mn and/or Composition available in the product page here >	
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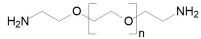
[↗ Return to index](#)

SP-1P-14-AMINO PEO/PPO PHOSPHONIC AND PRECURSORS

Reference: SP-1P-14-001	Product Name: Poly(ethylene glycol), α -ammonium chloride, ω -phosphonic acid CAS Number: N/D Physical Aspect: Yellow Wax to powder Batch size: 5g ; 10g ; Bulk on demand Mn and/or Composition available in the product page here >	
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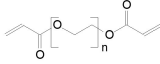
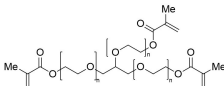
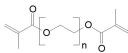
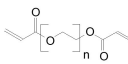
[↗ Return to index](#)

SP-1P-4-PEO/PPO AZIDE-AMINE

Reference: SP-1P-4-005	Product Name: Poly(ethylene glycol), α,ω -bis(amine) CAS Number: 24991-53-5 Physical Aspect: Powder Batch size: 5g ; 10g ; Bulk on demand Mn and/or Composition available in the product page here >	 <p>The chemical structure shows a central poly(ethylene glycol) chain represented by a bracketed unit with a subscript 'n'. The chain is terminated at both ends by amine groups, specifically $\text{H}_2\text{N}-\text{CH}_2-\text{CH}_2-\text{O}$ on the left and $-\text{O}-\text{CH}_2-\text{CH}_2-\text{NH}_2$ on the right.</p>
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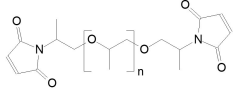
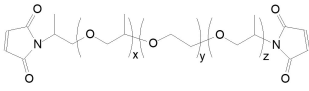
[↗ Return to index](#)

SP-1P-7-PEO/PPO VINYL / ALLYL / ACRYL / METHACRYL

<p>Reference: SP-1P-7-001</p>	<p>Product Name: Poly(ethylene glycol), α,ω-bis(acrylate) CAS Number: 26570-48-9 Physical Aspect: Wax or powder Batch size: 5g ; 10g ; 25g ; Bulk on demand Mn and/or Composition available in the product page here ></p>	
<p>Reference: SP-1P-7-014_B8</p>	<p>Product Name: Biobased Glycerin ethoxylate trimethacrylate CAS Number: N/D Physical Aspect: Orange to brown liquid Batch size: 5g ; 10g ; 25g ; Bulk on demand Mn and/or Composition available in the product page here ></p>	
<p>Reference: SP-1P-7-012_B9</p>	<p>Product Name: Biobased Poly(ethylene glycol), α,ω-bis(methacrylate) CAS Number: 25852-47-5 Physical Aspect: Light yellow wax Batch size: 5g ; 10g ; Bulk on demand Mn and/or Composition available in the product page here ></p>	
<p>Reference: SP-1P-7-013_B9</p>	<p>Product Name: Biobased Poly(ethylene glycol), α,ω-bis(acrylate) CAS Number: 26570-48-9 Physical Aspect: Orange to brown wax Batch size: 5g ; 10g ; Bulk on demand Mn and/or Composition available in the product page here ></p>	

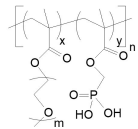
[↪ Return to index](#)

SP-1P-9-PEO/PPO VARIOUS (MALEIMIDE, SUCCINIMIDE, HYDROXYBENZOIC, PROPARGYL)

<p>Reference: SP-1P-9-013</p>	<p>Product Name: Poly(propylene glycol), α,ω-bis(maleimide) CAS Number: 85113-94-6 Physical Aspect: Yellow to brown viscous liquid Batch size: 10g ; 25g ; 50g ; 100g ; Bulk on demand Mn and/or Composition available in the product page here ></p>	
<p>Reference: SP-1P-9-015</p>	<p>Product Name: PPG-block-PEG-block-PPG, α,ω-bis(maleimide) CAS Number: N/D Physical Aspect: Oil to powder Batch size: 5g ; 10g ; 25g ; Bulk on demand Mn and/or Composition available in the product page here ></p>	

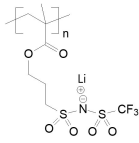
[↪ Return to index](#)

SP-4P-1-POLY(METH)ACRYLATE PHOSPHONIC ESTER / ACID

Reference: SP-4P-1-011	Product Name: Poly(PEGMA-stat-MAPC1 Acid) CAS Number: N/D Physical Aspect: White powder Batch size: 5g ; 10g ; 25g ; Bulk on demand Mn and/or Composition available in the product page here >	
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[↗ Return to index](#)

SP-4P-6-POLY(METH)ACRYLATE co STYRENE PHOSPHONIC ESTER / ACID

Reference: SP-4P-6-004	Product Name: Poly(MTFSiLi) CAS Number: 1818373-10-2 Physical Aspect: White to yellow powder Batch size: 5g ; 10g ; 25g ; 50g ; Bulk on demand Mn and/or Composition available in the product page here >	 <p>The chemical structure shows a polymer backbone with a methacrylate group and a phosphonic acid group. The phosphonic acid group is represented as a phosphorus atom bonded to three oxygen atoms, one of which is coordinated to a lithium ion (Li+). The phosphorus atom is also bonded to a nitrogen atom, which is further bonded to a sulfur atom, which is bonded to a trifluoromethyl group (CF3).</p>
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[↪ Return to index](#)