



# SPECIFIC POLYMERS

POLYMERS | MONOMERS | BUILDING-BLOCKS

## R&D PRODUCTS PORTFOLIO

Epoxy  
Biobased



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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.*

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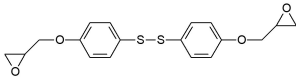
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### **SP-1P-POLYETHYLENE OXIDE / POLYPROPYLENE OXIDE / POLYTETRAMETHYLENE OXIDE**

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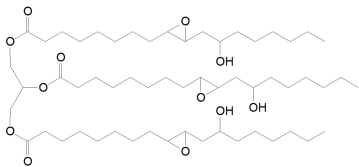
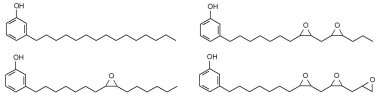

# **BUILDING BLOCKS & MONOMERS PORTFOLIO**

## SP-3-65-ALKYL SULFUR EPOXY

<b>Reference:</b> <b>SP-3-65-004</b>	<b>Product Name:</b> Bis(4-glycidoxyphenyl) disulfide <b>CAS Number:</b> 17735-65-8 <b>Physical Aspect:</b> Off White solid <b>Mw:</b> 362.46 <b>Batch size:</b> 10g ; 25g ; 50g ; Bulk on demand For further information, access the <a href="#">product page here &gt;</a>	 <p>The chemical structure shows two 4-glycidoxyphenyl groups connected by a disulfide bridge (-S-S-). Each phenyl ring is substituted at the para position with a glycidyl group (-CH2-CH(O)-CH2).</p>
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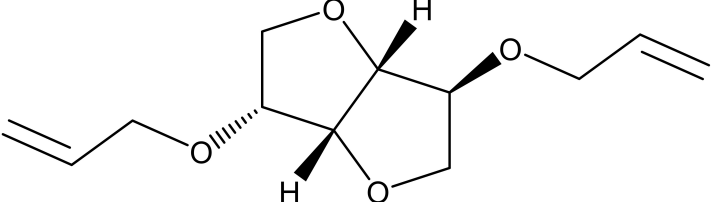
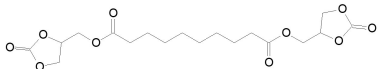
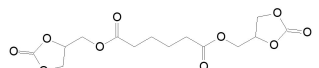
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## SP-3S-30-SUSTAINABLE POLYOLS

<p><b>Reference:</b> <b>SP-3S-30-005</b></p>	<p><b>Product Name:</b> Epoxidized castor oil</p> <p><b>CAS Number:</b> 105839-17-6</p> <p><b>Physical Aspect:</b> Wax to viscous liquid - Colorless to light yellow</p> <p><b>Mw:</b> N/D</p> <p><b>Batch size:</b> 25g ; 50g ; 100g ; Bulk on demand</p> <p>For further information, access the <a href="#">product page here &gt;</a></p>	
<p><b>Reference:</b> <b>SP-3S-30-007</b></p>	<p><b>Product Name:</b> Epoxidized cardanol oil</p> <p><b>CAS Number:</b> 1260636-34-7 63284-28-6 61549-09-5 501-24-6</p> <p><b>Physical Aspect:</b> Viscous liquid</p> <p><b>Mw:</b> N/D</p> <p><b>Batch size:</b> 10g ; 25g ; 50g ; 100g ; Bulk on demand</p> <p>For further information, access the <a href="#">product page here &gt;</a></p>	
<p><b>Reference:</b> <b>SP-3S-30-008</b></p>	<p><b>Product Name:</b> Biobased Epoxidized Hydroxyl Terminated Polybutadiene-like Resin</p> <p><b>CAS Number:</b> NA</p> <p><b>Physical Aspect:</b> Colorless viscous liquid</p> <p><b>Mw:</b> ~4000 g/mol</p> <p><b>Batch size:</b> 5g ; 10g ; 25g ; Bulk on demand</p> <p>For further information, access the <a href="#">product page here &gt;</a></p>	

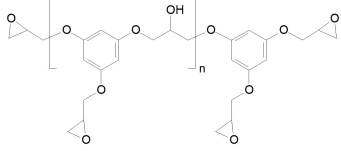
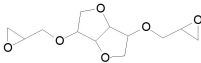
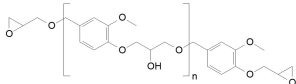
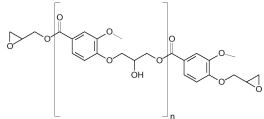
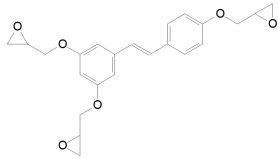
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## SP-68-FUNCTIONAL SUSTAINABLES

<p><b>Reference:</b> <b>SP-68-005_B5</b></p>	<p><b>Product Name:</b> Bis(allyl)isosorbide BIO 5</p> <p><b>CAS Number:</b> 6338-34-7</p> <p><b>Physical Aspect:</b> Clear liquid</p> <p><b>Mw:</b> 226.27</p> <p><b>Batch size:</b> 25g ; 50g ; 100g ; Bulk on demand</p> <p>For further information, access the <a href="#">product page here &gt;</a></p>	 <p>The image shows the chemical structure of Bis(allyl)isosorbide BIO 5. It consists of a central isosorbide ring system, which is a bicyclic structure with two oxygen atoms in a five-membered ring. Two allyl groups (CH2=CH-CH2-) are attached to the ring via ether linkages. The stereochemistry is shown with wedged and dashed bonds to the hydrogen atoms on the ring carbons.</p>
<p><b>Reference:</b> <b>SP-68-010</b></p>	<p><b>Product Name:</b> Sebacate bis(cyclocarbonate)</p> <p><b>CAS Number:</b> 86047-20-3</p> <p><b>Physical Aspect:</b> White solid</p> <p><b>Mw:</b> 402.39</p> <p><b>Batch size:</b> 10g ; 25g ; 50g ; Bulk on demand</p> <p>For further information, access the <a href="#">product page here &gt;</a></p>	 <p>The image shows the chemical structure of Sebacate bis(cyclocarbonate). It features a central sebacate chain (a long-chain dicarboxylate) with two cyclocarbonate groups attached to the chain via ester linkages. The cyclocarbonate groups are five-membered rings containing two oxygen atoms and a carbonyl group.</p>
<p><b>Reference:</b> <b>SP-68-011</b></p>	<p><b>Product Name:</b> Adipate bis(cyclocarbonate)</p> <p><b>CAS Number:</b> 86147-34-4</p> <p><b>Physical Aspect:</b> Beige powder</p> <p><b>Mw:</b> 346.29</p> <p><b>Batch size:</b> 10g ; 25g ; 50g ; Bulk on demand</p> <p>For further information, access the <a href="#">product page here &gt;</a></p>	 <p>The image shows the chemical structure of Adipate bis(cyclocarbonate). It features a central adipate chain (a six-carbon dicarboxylate) with two cyclocarbonate groups attached to the chain via ester linkages. The cyclocarbonate groups are five-membered rings containing two oxygen atoms and a carbonyl group.</p>

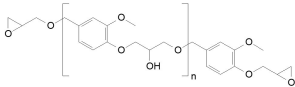
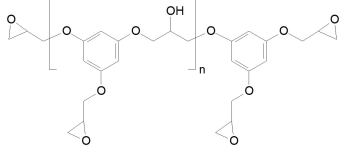
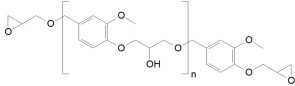
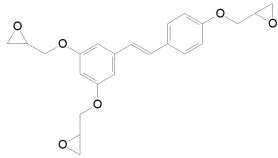
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## SP-9S-5-SUSTAINABLE EPOXY

<p><b>Reference:</b> <b>SP-9S-5-003</b></p>	<p><b>Product Name:</b> PHTE <b>CAS Number:</b> 4223-14-7 <b>Physical Aspect:</b> Viscous liquid <b>Mw:</b> 294.30 <b>Batch size:</b> 100g ; 250g ; 500g ; 1000g ; 2500g ; 5000g ; Bulk on demand For further information, access the <a href="#">product page here &gt;</a></p>	
<p><b>Reference:</b> <b>SP-9S-5-004_B5</b></p>	<p><b>Product Name:</b> DGEI BIO 5 <b>CAS Number:</b> 13374-44-2 <b>Physical Aspect:</b> Clear liquid <b>Mw:</b> 258.27 <b>Batch size:</b> 25g ; 50g ; 100g ; Bulk on demand For further information, access the <a href="#">product page here &gt;</a></p>	
<p><b>Reference:</b> <b>SP-9S-5-005</b></p>	<p><b>Product Name:</b> DGEVA <b>CAS Number:</b> 1584677-14-4 <b>Physical Aspect:</b> White wax <b>Mw:</b> 266.29 <b>Batch size:</b> 100g ; 250g ; 500g ; 1000g ; 2500g ; 5000g ; Bulk on demand For further information, access the <a href="#">product page here &gt;</a></p>	
<p><b>Reference:</b> <b>SP-9S-5-007</b></p>	<p><b>Product Name:</b> DGEVAC <b>CAS Number:</b> 1393710-63-8 <b>Physical Aspect:</b> Beige powder <b>Mw:</b> 280.27 <b>Batch size:</b> 10g ; 25g ; 50g ; 100g ; Bulk on demand For further information, access the <a href="#">product page here &gt;</a></p>	
<p><b>Reference:</b> <b>SP-9S-5-009</b></p>	<p><b>Product Name:</b> RTGE <b>CAS Number:</b> 1628749-20-1 <b>Physical Aspect:</b> Yellow to orange viscous liquid <b>Mw:</b> 396.4 <b>Batch size:</b> 25g ; 50g ; 100g ; Bulk on demand For further information, access the <a href="#">product page here &gt;</a></p>	

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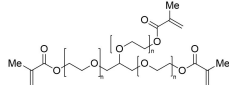
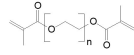
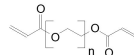
## SP-9S-5-SUSTAINABLE EPOXY

<p><b>Reference:</b> <b>SP-9S-5-005_B</b></p>	<p><b>Product Name:</b> DGEVA BIO <b>CAS Number:</b> 1584677-14-4 <b>Physical Aspect:</b> White wax <b>Mw:</b> 266.29 <b>Batch size:</b> 100g ; 250g ; 500g ; 1000g ; Bulk on demand For further information, access the <a href="#">product page here &gt;</a></p>	
<p><b>Reference:</b> <b>SP-9S-5-003_B6</b></p>	<p><b>Product Name:</b> PHTE BIO 6 <b>CAS Number:</b> 4223-14-7 <b>Physical Aspect:</b> Viscous liquid <b>Mw:</b> 294.30 <b>Batch size:</b> 100g ; 250g ; 500g ; 1000g ; 2500g ; 5000g ; Bulk on demand For further information, access the <a href="#">product page here &gt;</a></p>	
<p><b>Reference:</b> <b>SP-9S-5-005_B4</b></p>	<p><b>Product Name:</b> DGEVA BIO 4 <b>CAS Number:</b> 1584677-14-4 <b>Physical Aspect:</b> White wax <b>Mw:</b> 266.29 <b>Batch size:</b> 100g ; 250g ; 500g ; 1000g ; 2500g ; 5000g ; Bulk on demand For further information, access the <a href="#">product page here &gt;</a></p>	
<p><b>Reference:</b> <b>SP-9S-5-009_B6</b></p>	<p><b>Product Name:</b> RTGE BIO 6 <b>CAS Number:</b> 1628749-20-1 <b>Physical Aspect:</b> Viscous to solid <b>Mw:</b> ~396.4 <b>Batch size:</b> 25g ; 50g ; 100g ; Bulk on demand For further information, access the <a href="#">product page here &gt;</a></p>	

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# FUNCTIONAL POLYMERS PORTFOLIO

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

<p><b>Reference:</b> <b>SP-1P-7-014_B8</b></p>	<p><b>Product Name:</b> Biobased Glycerin ethoxylate trimethacrylate</p> <p><b>CAS Number:</b> N/D</p> <p><b>Physical Aspect:</b> Orange to brown liquid</p> <p><b>Batch size:</b> 5g ; 10g ; 25g ; Bulk on demand</p> <p><b>Mn and/or Composition available</b> in the <a href="#">product page here &gt;</a></p>	 <p>The structure shows a central glycerol backbone with three ethoxylate chains (indicated by 'n' in brackets) and three methacrylate end groups.</p>
<p><b>Reference:</b> <b>SP-1P-7-012_B9</b></p>	<p><b>Product Name:</b> Biobased Poly(ethylene glycol), <math>\alpha,\omega</math>-bis(methacrylate)</p> <p><b>CAS Number:</b> 25852-47-5</p> <p><b>Physical Aspect:</b> Light yellow wax</p> <p><b>Batch size:</b> 5g ; 10g ; Bulk on demand</p> <p><b>Mn and/or Composition available</b> in the <a href="#">product page here &gt;</a></p>	 <p>The structure shows a poly(ethylene glycol) chain with two methacrylate end groups at the alpha and omega positions.</p>
<p><b>Reference:</b> <b>SP-1P-7-013_B9</b></p>	<p><b>Product Name:</b> Biobased Poly(ethylene glycol), <math>\alpha,\omega</math>-bis(acrylate)</p> <p><b>CAS Number:</b> 26570-48-9</p> <p><b>Physical Aspect:</b> Orange to brown wax</p> <p><b>Batch size:</b> 5g ; 10g ; Bulk on demand</p> <p><b>Mn and/or Composition available</b> in the <a href="#">product page here &gt;</a></p>	 <p>The structure shows a poly(ethylene glycol) chain with two acrylate end groups at the alpha and omega positions.</p>

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