

PRODUCT CATALOGUE

Coatings, Adhesives, Sealants and Resins







ABOUT US

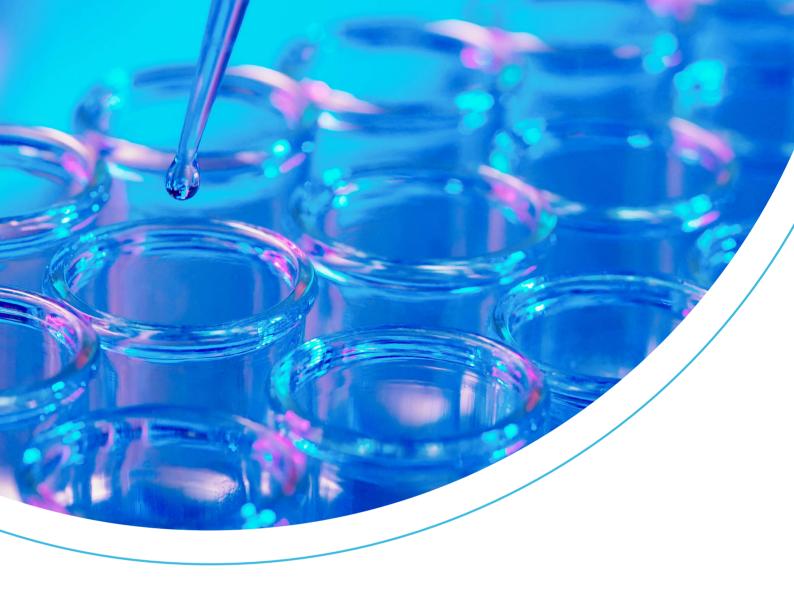
Connect Chemicals is a leading global distributor, custom manufacturer, and producer, offering a wide range of specialties to the chemical industry.

Established in 1998 in Ratingen, Germany, we now have offices across four continents and a well-established international network of partners that allows us to offer global coverage while effectively serving both local and multinational organizations.

Our CASE & Resins product portfolio has expanded with the addition of new product lines, and we are ready to support you in taking your business to the next level whether in resin development or fully formulated products across a wide range of end-use applications. We specialize in distributing high-quality, high-purity ingredients with an exceptionally efficient supply chain.

From automotive coatings to composites or textile and leather applications, no matter your specific use or formulation needs, our product catalog has something to meet your requirements.

Always at the forefront of the industry and customer demands, we have evolved into a hybrid partner. Through our Custom Manufacturing process supported by our in-house R&D laboratory we are well-equipped to help you meet future challenges by developing tailored solutions to fill portfolio gaps and market needs.



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MONOMERS & OLIGOMERS

Hydroxyl									
	Number	Molecular Weight	Assay, min %	Color, max	Pt/Co	Viscosity at 25°C mPa.s	Inhibitor, MEHQ ppm max	Acid value, max%	Water, max %
Hydroxyethyl methacrylate (HEMA)	368-77-9	130	97	20)	8	240	0.1	0.1
	27813-02-1	114	97	20)	9	220	0.2	0.1
	25584-83-2		97	20)	9	250	0.2	0.2
Hydroxyethyl acrylate (HEA)	818-61-1	116	97	20)	11-17	250	0.2	0.2
Multifunctional - Methacrylate									
Product Name	CAS	100 P	Molecular Weight	Assay, min %	Color, max Pt/Co	Viscosity at 25°C mPa.s	Inhibitor, MEHQ ppm max	Acid value, max%	Water, max %
Isobornyl Methacrylate (IBOMA)	753	4-94-3	223	98	50	7-10	200	1.0	0.5
Methoxy PEG350 methacrylate	269	15-72-0	430	97	100	20	4000-6000		0.5
Methoxy PEG550 methacrylate	269	15-72-0	628	97	100	45			0.5
Methoxy PEG750 methacrylate	269	15-72-0				Specification to	be defined		
Methoxy PEG1000 methacrylate (50% Wt.)	269	15-72-0	1080		9	42	1200-1600		50
Methoxy PEG2000 methacrylate (50% Wt.)	269	15-72-0	2080		10	40	1200-1600		50
1,4-butanediol-dimethacrylate (BDDMA)	208	32-81-7	226	95	100		100-400	0.1	0.1
Ethylene Glycol di-methacrylate (EGDMA)	97-0	90-5	198	90	80	3-10	500-600		0.2
Bisphenol A (EO) ₃ di-methacrylate	410	37-38-1	496	98	50	700-1200	400	0.2	0.2
Bisphenol A (EO) ₄ di-methacrylate	410	37-38-1	562	98	50	500-850	400	0.2	0.2
Triethyleneglycol-di-methacrylate (TEGDMA)	109	P-16-0	286	95	100	530	300		0.2
Polyethylene glycol-200-di-methacrylate	258	352-47-5	336	98	50	15	200-400	0.05	0.2
Polyethylene glycol-400-di-methacrylate	258	352-47-5				Specification to	be defined		
Polyethylene glycol-600-di-methacrylate	258	352-47-5	736	98	50	50-100	300-600		0.2
Trimethylolpropane tri-methacrylate (TMPTMA)	329	0-92-3	338	93	70	35-55	300	0.05	0.1
Multifunctional - Acrylate									
Trimethylolpropane tri-acrylate (TMPTA)	156	525-89-5	296	97	25	70-110	300	0.3	0.1
Trimethylolpropane (EO) ₃ tri-acrylate (TMP(EO) ₃ Ta	4) 289	61-43-5	692		50	90	400	0.2	0.1
Pentaerythritol (EO) ₄ tetra-acrylate (PTT(EO) ₄ TA)	517	728-26-8	571		100	120-200			0.2
Isobornyl Acrylate (IBOA)	588	38-33-5	208	98	30	6-10	150	1.0	0.4
Vinylic									
Product Name	CAS	Number	Assov	min %	·	Color, max APHA	Polymer content, max ppm		Inhibitor, ppm TBC
Vinyl toluene		013-15-4		9.2		20	15		30-60

Product Name	CAS Number	Molecular Weight	Assay, min %	Viscosity at 25°C mPa.s	Hygroscopicity	Ignition Temperature °C	Boiling Point °C	Melting Point °C
N-acryloyl morpholine - ACMO	5117-12-4	141	98	9-15	1.8 / 100g at 20°C, 60% RH	126.5	158	-8

Features & Benefits

N-acryloyl morpholine - ACMO
Contains a reactive acrylate (C=C-) group, making it suitable for polymerization.
Can undergo free radical and UV-initiated polymerization. It is water-soluble and enhances the hydrophilicity of copolymers, it is also compatible with various solvents and monomers. Provides heat resistance and chemical stability in polymer matrices. Suitable for biomedical and pharmaceutical applications.
Improved film-forming properties. Contributes to smooth, transparent, and flexible coatings.

Allylic						
Hydroxyl						
Product Name	CAS	Molecular Weight	Assay, min %	Color, max Pr/Co	Water, max %	
Allyl glycol	111-455	102	99	10	0.2	
Ероху						
Product Name	CAS	Molecular Weight	Assay, min %	Color, max P/Co	Water, max %	
Allylglycidylether - AGE	106-92-3	114	99	10	0.05	

Features & Benefits

Allylglycidylether - AGE
Contains both epoxide and allyl groups, allowing versatile reactivity. Participates in radical, cationic, and epoxy polymerization for crosslinking. Acts as a reactive diluent, reducing viscosity in coatings, making them easier to apply. Compatible with acrylics, urethanes, epoxies, and polyester resins, improving formulation flexibility. Enhances adhesion to various substrates, including metals, plastics, and glass.



Allyl polyethers					
CC Commercial Name	Chemical Name	CAS	Hydroxy value	Color, max Pr/Co	Water, max %
CON AAE 4	Allylglycolethoxylate-4EO	608-071-5		50	
CON AAE 5	Allylglycolethoxylate-5EO	608-071-5	185 - 225	50	0.1
CON AAE 6-24-B	Poly(ethylene oxide propylene oxide) Mono allyl ether (6EO-24PO)	9041-33-2		50	0.1
CON AAE 8	Allylglycolethoxylate-8EO	608-071-5	134 - 148	30	0.2
CON AAE 8.5	Allylglycolethoxylate-8.5EO	608-071-5	131 - 139	30	0.1
CON AAE 10	Allylglycolethoxylate-10EO	608-071-5	107 - 117	50	0.15
CON AAE 11	Allylglycolethoxylate-11EO	608-071-5	96 - 108	50	0.2
CON AAE 24	Allylglycolethoxylate-24EO	608-071-5	95 - 107.6	100	0.1

Features & Benefits

Allyl polyethers

- Allyl Functional Groups (-CH₂-CH=CH₂)
- Enables polymerization and crosslinking reactions.
- Improves reactivity with other monomers in coatings and resins.
- Polyether Backbone (-O-R-O-)
- Provides flexibility and solubility in various solvents.
- Enhances thermal and oxidative stability.

Other functionality									
CC Commercial Name	Product Name	Chemical Name	CAS Number	Molecular Weight	Assay, min %	Color, max Pt/Co	Viscosity at 25°C mPa.s	Acid Number mgKOH/g max	Water, max %
ConCap M-Epsilon		ε-Caprolactone	502-44-3	114	99.9	10	6.6	0.3	0.05
Bisphenol S		4,4-Sulfonyldiphenol	80-09-1		99				0.5
Diallyl Dimethyl Ammonium Chloride	DADMAC		7398-698		60	50			
2-Ethoxyethylcyanoacetate	2EOECA	2-Ethoxyethylcyanoacetate	32804-77-6		99				0.05
		Ethyl Iso cyanoacetate	2999-46-4		97				

Features & Benefits

ConCap M-Epsilon

Highly reactive monomer used in ring-opening polymerization. Forms linear, biodegradable polymers such as polycaprolactone (PCL). Excellent solubility & compatibility, it is soluble in many organic solvents like acetone, chloroform. Compatible with polyesters, polyurethanes, and epoxy resins it is used to increase flexibility and impact resistance in coatings and polymers.

Bisphenol S

Similar to Bisphenol A (BPA) but contains a sulfone (-SO₂-) group instead of a carbon bridge it present higher thermal and chemical stability than BPA. Can withstand higher temperatures, making it ideal for heat-resistant coatings and resins. More soluble in water than BPA, it allow better formulation flexibility in waterborne coatings and adhesives. Contributes to high impact resistance and toughness in polymer applications.

Diallyl Dimethyl Ammonium Chloride

DADMAC is a quaternary ammonium salt with a positively charged nitrogen atom. Contains two allyl groups (-CH₂-CH=CH₂), making it highly reactive in polymerization. Soluble in water due to its ionic nature. DADMAC is a highly reactive monomer that readily copolymerizes with various other monomers, such as:

- Acrylamide \rightarrow for water-based coatings and adhesives
- Acrylic acid & Methacrylic acid → for high-performance resins
- Styrene & Butadiene → for latex coatings
- Vinyl Acetate → for emulsion polymers in paints

VINYL ETHERS

Vinyl ethers are versatile monomers and reactive intermediates used in various coatings applications due to their excellent reactivity, UV-curability, and resistance to hydrolysis.

Vinyl ethers	
Product name	CAS Number
Isobutyl vinyl ether (IBVE)	109-53-6
n-Butyl vinyl ether (n-BVE)	111-34-2
Cyclohexyl vinyl ether	2182-55-0
Dodecyl vinyl ether (DDVE)	765-14-0
Ethyl vinyl ether	109-92-2
Ethyl vinyl ether (polymer)	25104-37-4
Hexadecyl vinyl ether	822-28-6
n-Octyl vinyl ether	929-62-4
Octadecyl vinyl ether (ODVE)	930-02-9
n-Propyl vinyl ether (NPVGE)	764-47-6
iso-Propyl vinyl ether (IPVE)	926-65-8
Ethylene glycol vinyl ether	764-48-7
Diethylene glycol divinyl ether (DEGDVE)	764-99-8
Tri ethylene glycol divinyl ether (TEGDVE)	765-12-8
4-Hydroxy butyl vinyl ether (HBVE)	17832-28-9

Applications

- UV-Curable coatings
- Protective coatings
- Waterborne coatings
- Powder coatings
- Anti-Corrosion and barrier coatingsHigh performance adhesives, sealants and



ALCOHOLS & POLYOLS

Polyols						
Product Name	CAS Number	Assay, min %	Color, max Pt/Co	Acid number mgKOH/g max	Water, max %	
1,3 Propanediol (1,3 PDO)	504-63-2	99	10		0.2	
1,4 Butylene glycol (1,4 BDO)	110-63-4	99	10		0.05	
1,4 Butylene glycol bio (1,4 BDO-bio)	110-63-4	99.5	10	0.1	0.05	
1,5 Pentanediol	111-29-5	98	20	0.1	0.1	
1,6 Hexanediol	629-11-8	99	15	0.1	0.3	
Pentaerythritol	115-77-5	90	2		1	
Di-pentaerythritol	126-58-9	85	5		1	
Dimethylolpropionic Acid	4767-03-7	99		410	0.3	

Features & Benefits

1,3 Propanediol (1,3 PDO)

1,3-Propanediol is a versatile, renewable polyol that find application in a broad range of resins production. It derives from bio-based processes, has a low toxicity and exhibits good chemical stability. The use of PDO can lead to improved processing characteristics, such as lower viscosity during production, facilitating easier application and better performance in end-use.

Dimethylolpropionic Acid

Dimethylolpropionic Acid (DMPA) is a dihydroxy carboxylic acid used primarily as a reactive intermediate in coatings, adhesives, and polyurethane dispersions. It has both hydroxyl (-OH) and carboxyl (-COOH) functional groups, making it highly versatile in polymer and resin synthesis. It contains both hydroxyl (-OH) groups, allowing it to participate in esterification and urethane formation. It has a carboxyl (-COOH) group, making it useful for ionizable and water-dispersible polymer formulations. It enhances hydrophilicity in polymer matrices and improves adhesion and flexibility in coatings.



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Polycaprolactone polyols

Due to their low viscosity and a narrow weight distribution, they can offer benefits in the applications for thermoplastics, coatings, paints, adhesives and foams. They impart a great hydrolytic stability and UV resistance, a possibility of application in a broad temperature range and are generally easier to process.

Polycaprolactone polyols							
Product Name	Color, max	OH value	Acid number mgKOH/g max	Water, max %	Viscosity at 25°C mPa.s	Melfing range	
ConCap series							
ConCap P2000 series							
ConCap P2043	30	280	0.25	0.03	40	0-10	
ConCap P2054	30	204	0.25	0.03	60	18-23	
ConCap P2085	30	135	0.25	0.03	100	25-30	
ConCap P2100	30	112	0.30	0.03	151	30-41	
ConCap P2200	30	56	0.05	0.03	480	40-50	
ConCap P2201	30	56	0.30	0.03	480	40-50	
ConCap P2205	30	56	0.25	0.03	435	40-50	
ConCap P2209	30	56	0.25	0.03	380	40-50	
ConCap P2303	30	37	0.25	0.03	1100	50-60	
ConCap P3000 series							
ConCap P3031	30	560	1.0	0.03	170	0-10	
ConCap P3050	30	310	1.0	0.03	160	0-10	





REACTIVE DILUENTS 11

Reactive diluent & coupling ager	nt							
Product Name	CAS Number	Color, max APHA		Viscosity at 25°C mPa.s	Moisture content, max %	Epoxy Equivalent Weight g/eq	Inorganic Chlorine mg/kg	Hydrolysable Chloride %
1,4-Butanediol Di glycidyl Ether (1,4-BDODGE)	2425-79-8	40		10-25	0.10	128-136	20	0.20
1,4-Butanediol Di glycidyl Ether (1,4-BDODGE A)	2425-79-8	40		15-20	0.10	120-125	20	0.20
1,6-Hexanediol Di glycidyl Ether (1,6-HDODGE)	1096-31-4	40		10-25	0.10	140-155	20	0.20
Product Name	CAS Number	Color, max APHA		Viscosity at 25°C mPa.s	Moisture content, max %	Epoxy Value eq/100g	Organochlorine, max eq/100g	Inorganic chlorine, max eq/100g
N-Butyl Glycidyl Ether (N-BGE)	2426-08-6	10		2	0.1	0.65	0.01	0.001
Product Name	CAS Number		Color, max APHA	Viscosity at 25°C mPa.s	Moisture content, max %	Epoxy equivalent weight g/eq	Hydrolysable chloride %	Inorganic chlorine mg/kg
2- Ethyl Hexyl Glycidyl Ether Technical Grade (EHG	SE TG) 246	1-15-6	20	2-8	0.10	222-250	0.20	20
Product Name	CAS Number		Color, max APHA	Viscosity at 25°C mPa.s	Moisture content, max %	Epoxy equivalent weight g/eq	Hydrolysable chloride %	Inorganic chlorine mg/kg
Alkyl Glycidyl Ether (C12-C14 AGE)	686	09-97-2	20	4-10	0.1	294-313	0.15	20
					-			
Product Name	CAS Number		Color, max APHA	Viscosity at 25°C mPa.s	Moisture content, max %	Epoxy equivalent weight, g/eq	Total chloride, max ppm	Free ECH, max ppm
Neodecanoic Acid Glycidyl Ester (Neo-DAGE 10 P	'L) 267	6-1-45-5	30	4-10	0.10	235-244	1500	10
Product Name	CAS Number		Color, max APHA	Viscosity at 25°C mPa.s	Moisture content, max %	Epoxy equivalent weight g/eq	Total chloride	Hydrolysable chloride, max %
Phenyl Glycidyl Ether (PGE)	122	-60-1	60	2-10	0.2	169-190	3000	0.2
Product Name		Color, max APHA		Viscosity at 25°C mPa.s	Moisture content, max %	Epoxy equivalent weight g/eq	Inorganic chlorine, max eq/100g	Hydrolysable chloride, max eq/100g
Polyethylene Glycol Di glycidyl Ether (PEGDGE)		100		50-70	0.1	263-333	0.005	0.02
Polypropylene Glycol Di glycidyl Ether (PPGDGE 40		100		30-70	0.1	278-357	0.005	0.02
Polypropylene Glycol Di glycidyl Ether (PPGDGE 10		100		90-140	0.1	625-910	0.005	0.02
Polypropylene Glycol Di glycidyl Ether (PPGDGE 30	00)	100		300-350	0.1	1000-1666	0.005	0.02

Organo-titanates, which are titanium compounds bonded with organic groups, are highly versatile and valuable in coating formulations due to their ability to enhance adhesion, dispersion, chemical resistance, and durability. These compounds typically function as coupling agents, dispersing agents, or adhesion promoters in coatings. They help create high-performance coatings that are resistant to harsh environmental conditions and that adhere strongly to a wide variety of substrates.

Titanates					
Product Name	CAS Number	Titanium Content as TiO ₂	Color APHA	Chloride as Cl	Specific gravity 25/25°C
Tetra Isopropyl titanate (TIPT)	546-68-9	27.8-28.4 %	< 100	< 50 ppm	0.945-0.955
Tetra-2-Ethylhexyltitanate (T2EHT)	1070-10-6	> 8.4 % (as Ti)			0.925-0.935
Tetra Ethyl titanate (TET)	3087-36-3	33.0-35.0 %			1.080-1.100
Tetra-n-butyl titanate (TNBT)	5593-70-4	22.7-24.2 %	< 100	< 50ppm	0.986-1.000
Titamix 80/20				< 50ppm	0.970-0.990
Concat LA	65104-06-5	13.2-14.0%		<120ppm	1.050-1.250
Butyl Titanate Polymer (BTP)	162303-51-7	19.4-20.6%			1.100-1.126

Features & Benefits

Tetra Isopropyl titanate (TIPT)

Highly reactive organic titanate that can be used in a broad range of processes and applications. It is a colorless, slightly yellowish liquid that is very sensitive to moisture.

Applications: catalyst to produce plasticizers, polyesters and methacrylic esters, Adhesion promoter, Cross-linking for polymers, Coatings, Surface modification (metal, glass).

Tetra-2-Ethylhexyltitanate (T2EHT)

Colorless and slightly yellowish liquid that is very sensitive to moisture.

Applications: catalyst to produce plasticizers, polyesters and methacrylic esters, Adhesion promoter, cross-linking for polymers, coatings.

Tetra Ethyl titanate (TET

Colorless and slightly yellowish liquid that is very sensitive to moisture.

Applications: catalyst to produce plasticizers, polyesters and methacrylic esters, Adhesion promoter, cross-linking for polymers, coatings.

Tetra-n-butyl titanate (TNBT)

Melting point of -70 °C. Mixable in most of organic solvents. Used in sol-gel applications for production of TiO₂ passivating layers. In combinations with other metal alkoxides it can react to metal oxide systems. Also used as a catalyst to produce plasticizers, polyesters and methacrylic esters.

Titamix 80/20

Blend 80% TIPT and 20% TNBT with high performance of TIPT but with a higher melting point of approx. 30°C.

Concat LA

Water based titanium chelates stable in PH range 7-8 even in presence of reactants. It is and effective catalyst in direct or trans esterification and condensation reaction; a good crosslinking agent for water based hydroxyl functional binders; a good adhesion promoter and surface protection agent as it can generate a TiO₂ polymeric passivating layer.

Butyl Titanate Polymer (BTP)

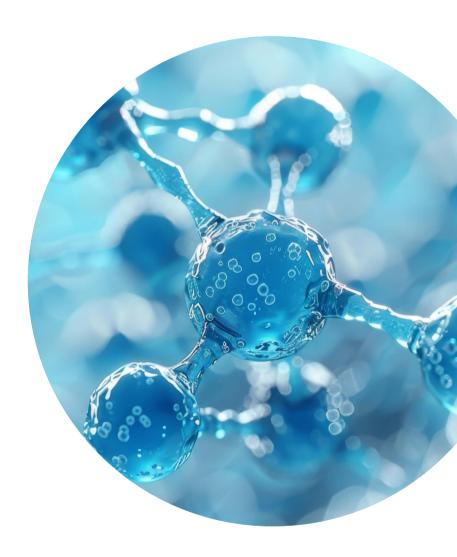
Catalyst for esterification processes.



Catalyst	
Product name	CAS
Triethyl phosphate (TEP)	78-40-0
Mono Butyl Tin Oxide (MBTO)	2273-43-0

Radical Initiator	
Product name	CAS Number
Acetylacetone (ACAC)	123-54-6
Calcium Acetylacetonate	19372-44-2

Inhibitors	
Product name	CAS
4-Tertiary-Butyl Catechol (TBC)	98-29-3
2,3,5-Trimethylhydroquinone (TMHQ)	700-13-0



E. D. I												
Flame Retardan	ts											
Product Name		CAS Number		Color, max APHA			Specific Gravity 20/20°C		Acid Content, mgKOH/g max	Heating loss, max	Water content,	
Cresyl Diphenyl Phospha	te (CDP)	2644	-49-5	50			1205-12	215 g/cm ₃	0.05	0.15	0.0	5
Product Name		CAS Number	- - 5	Chlorine, %	Moisture, max %	•	Acid content, mgKOH/g max	Softening point, °C	Decomposition Temp, min °C	Heat stability, max 180°C/4hrs, HCI	CCI, max ppm w/w	Fe, max ppm
Chlorinated Paraffin 70%		63449	-39-8	71-73	0.1		0.1	90	210	0.1	5	50
Product Name		CAS Number	200	APHA MAY	Acid content, mgKOH/g max		Phosphorous content %	Chlorine content %	Water content, max %	Refractive index (n25/D)	Density (20/20 °C)	1,2 Di chloropropane, max ppm
Tris (1-chloro-2-isopropyl)	Phosphate (TC		-84-5 4	.0	0.05		9-10	32-33	0.1	14625 - 14650	1.27-1.31	10
Product Name		CAS Number		Color, max Hazen		Acid content, mgKOH/g max		Assay, min %	Water content, max %	Refractive index	Melting point, °C	
Triethyl Phosphate (TEP)		78-40	0	20		0.05		99.5	0.1	1.405-	1.407 -5	5.4
Product Name		CAS Number		Color, max	АРНА			Water content, max %	Acid content, mgKOH/g max		TPP content, max %	
Resorcinol bis(diphenyl pl	hosphate) (RD	P L) 57583	-54-7	10	00			0.05	0.1		0.1	
				<u>.</u>								
Product Name	CAS Number	%Ouz	B ₂ O ₃ %	Loss on ignition %		Surface water, %	Fineness, min %	Particle size, µm	Density, g/cm3 4°C	Melling point °C	Temp of dehydration °C	Refractive index
Zinc Borate	138265-88-0	37.0-40.0	45.0-48.0			0.5	0.1			980-990	280-350	1.58-1.59

Features & Benefits

Cresyl Diphenyl Phosphate (CDP)

CDP is used as a flame retardant and plasticizer in manufacturing for varnishes and vinyl plastics.

Chlorinated Paraffin 70%

Chlorinated paraffin 70% is a chlorinated paraffin wax (C 22-C 30) - an organic compound containing chloride polychlorinated n-alkanes. It is a white/off-white powder. The product functions as an additive in metal working fluids, sealants, and a flame retardant in paints and coatings.

Tris (1-chloro-2-isopropyl) Phosphate (TCPP)

Tris (1-chloro-2-isopropyl) Phosphate is a flame retardant commonly used in polyurethane foam consumer products, home insulation and electronics.

Triethyl Phosphate (TEP)

Triethyl phosphate is used as a catalyst, desensitizing agent for peroxides, a plasticizer for resins, plastics and gums, and as a flame retardant making non-flammable polyurethane foams and polyurethane resins.

Resorcinol bis(diphenyl Phosphate) (RDP L)
RDP is an halogen free flame retardant of high effectiveness in a broad variety of applications, can be used in formulations of intumescent coatings. thanks to its outstanding composition temperature above 300°C, RDP enhance the thermal stability of materials, during item processing. it has broad compatibility with various polymers, including PO-S alloys, EC-ABF and polyester fibers.

Zinc borate is a halogen-free, inorganic boron based multifunctional flame retardant. It is non-toxic, has excellent dispersibility in a number of different polymer systems, and shows high thermal stability.

Flame Retardants					
Product Name	P (%) min	Acid number mgKOH/g max	Water, max %	Hydroxyl value, mgKOH/g	Solubility
FlamaCare 52	12	8	0.3	400	Water, methanol, ethanol, isopropanol

FlamaCare 52

FlamaCare is a halogen-free molecule with high level of flame retardant properties which is able to react with most common polymeric matrices. It is safe for people and the environment because it avoids the presence of dangerous halogens in the final products and prevents any kind of chemical emissions, as it is chemically linked in the polymer matrix permanently. Due to its characteristics, it is recommended for rigid polyurethane as it can be incorporated in the foam structure by reacting as a polyol. It can be use in all coating formulation containing polymers that can react with hydroxyl functional group like epoxy resins, vinyl esters and unsaturated polyesters. Due to the combined presence of phosphorous and nitrogen inside the molecular structure we obtain a synergetic effect that increase the efficiency of the formulated intumescent coating.



Ammonium Polyphosphate						
Product Name	P (%) min	N (%) min	Particle size (%) (< 50µm) min	Average particle size (D50) (µm)	Water solubility (g/100ml at 25°C)	Main Applications
APP 201P	31	14	95	18	0.5	Rubber, PU foam, expandable fireproof coatings, thermosetting and thermoplastics resins.
APP 201S	31	14	95	18	0.5	

Product Name	CAS Number	P (%) min	N (%) min	Particle size (%) (< 50µm) min	Average particle size (D50) (µm)	Water solubility (g/100ml at 25°C)	Treatment		Main Applications		
APP 202	68333-79-9	29	16-18	95	18-22	0.3	Melamin	e modified	Paper, w polymer		cables, rubber, variety of
APP 203	68333-79-9	30-31.5	14-46	95	18-22	0.3	Silane m	odified	Rubber, thermose	PU foam, exp etting and the	andable fireproof coatings, rmoplastics resins.
APP 226	68333-79-9	29-31	13-15	90	20-24	0.15	Ероху ге	sin coated	Textile c	oating. epoxy	and PU resins.
APP 231	68333-79-9	29-31	16-18	90	20-24	0.04	Melamin coated	e formaldehyde resin	Paper, w polymer		cables, rubber, variety of
Product Name	CAS Number	P ₂ O _s content (%) min		N (%) min	Average polymerization	(i) pa	pH (10% aqueous suspension)	Particle size (<45µm) (%) min	Average particle size (µm)	Moisture content (%) max	Water solubility (g/100ml at 25°C) max
APP I	68333-79-9	69		14	50		5.5 - 7.5	97	15 - 20	0.25	2
Product Name			CAS Number		P,O, content (%) min			Z (%) min	pH (1% aqueous suspension)		Water solubility (g/100 ml at 25°C) min
APP 100			68333	-79-9	45			24	6.5-8.5		60
APP 111			68333	-79-9	59		18		5.5-7.5		150

Features & Benefits

APP I

APP I has a high phosphorous and nitrogen content, a high polymerization degree, low water solubility, good thermal stability, and low toxicity.

APP 100

Has a lower phosphorous and higher nitrogen content than KYLIN APP1, high water solubility and good compatibility with other flame retardants and auxiliary chemicals.

APP 111

Has a lower phosphorous and higher nitrogen content than KYLIN APP1, very high water solubility (over 150 grams in 100ml of water at 25°C) and good compatibility with other flame retardants.

Plasticizer							
Product Name	CAS Number	Color, max Hazen	Acid content, mgKOH/g max	Assay, min %	Water content, max %	Refractive index	Melting point, °C
Tri-ethyl phosphate (TEP)	78-40-0	20	0.05	99.5	0.1	1.405-1.407	-56.4
Product Name	CAS Number	Color, max APHA	Acid content, mgKOH/g max	Moisture, % max	Density at 20°C g/cm3	Refractive index at 25°C	
Tri-butoxy-ethyl phosphate (TBEP)	78-51-3	50	0.1	0.1	1.017-0.023	1.432-1. 437	
Product Name		CAS Number	Dynamic viscosity at 20°C mPa.s	Specific gravity 20°C/20°C	Color max APHA	Refractive index nD25	Acid value mgKOH/g max
DEHCH (bis(2-ethylhexyl) cyclohexane-1,4-di	carboxylate)	84731-70-4	30-45	0.953-0.959	30	1.456-1.1462	0.07
Product Name		CAS Number	Color, max APHA	Water content, max %	Purity, %	Acidity content,	
Tri-isobutyl phosphate (TiBP)		126-71-6	20	1	99	0.5	

Features & Benefits

Tri-ethyl phosphate (TEP)

Tri-ethyl phosphate is used as a catalyst, desensitizing agent for peroxides, a plasticizer for resins, plastics and gums, and as a flame retardant making non-flammable polyurethane foams and polyurethane resins.

Tri-isobutyl phosphate (TiBP)

Defoaming agent for concrete admixtures, strong wetting agent, widely used in the textile industry

Waxes					
Product name	CAS Number	Color, max Gardher	Acid value, mgKOH/g max	Melting point, °C	Water, max %
ConWX EBS	68390-94-3	3	7.5	141.5-146.5	0.2
Elofer EBS10LP	68390-94-3	5	7	141.5-146-5	0.2
Stearamide	124-26-5	7	7-11	102.0-108.0	0.2

Features & Benefits

ConWX FBS

Ethylene bis stearamide is a synthetic wax produced with high content of renewable material, widely used across industries. It is compatible with a large number of polymers. Available in different forms and specifications, to satisfy applications requirements.

Elofer EBS10LP

Ethylene bis stearamide is a synthetic wax produced with high content of renewable material, widely used across industries. It is compatible with a large number of polymers. Available in different forms and specifications, to satisfy applications requirements.

Stearamide

Stearamide is a waxy compound derived from stearic acid, utilized in the production and processing of several plastics, rubber and textile applications. It can be used as internal lubricant, mold release agent, antistatic additive, viscosity control. Available in different forms and specifications.

Fumed Silica

Fumed silica is a hydrophobic fumed silica treated with a dimethyl silicone fluid. This surface treatment results in a hydrophobic silica with a different performance than untreated silica and the product acts as a rheology modifier imparting good thickening efficiency, sag resistance and anti-settling.

Applications

- Thixotropy & Rheology Control Prevents sagging and dripping in coatings while allowing easy application.
- Anti-Settling & Suspension Stability Keeps pigments, fillers, and other particles uniformly dispersed.
- Improved Scratch & Abrasion Resistance Strengthens coatings for better durability.
- Anti-Corrosion & Barrier Protection Enhances resistance against moisture and chémicals.
- Matting & Gloss Control Used to adjust gloss levels in matte or satin coatings.
- Anti-Blocking & Slip Enhancement Reduces tackiness and enhances surface smoothness.

Fumed Silica										
Product Name		CAS Number	Surface area (m²/g)	Loss on drying at 105°C/2h (wt.%)	pH value (4% suspension)	Ignition loss (wt.%)	Silica content (wt. %)	Content of carbon (wt. %)	Tapped density (g/L)	
Fumed Silica HB-15		68611-44-9	100-160	0.7	3.7	2.5	99.8	0.6-0.12	40-60	
									+	
Product Name	CAS Number	Surface area (m²/g)	Loss on drying at 105°C (wt.%)	pH value	Ignition loss at 1000°C (wt.%)	Tapped density (g/L)	SiO ₂ content (wt.%)	Content of carbon (wt. %)	Chloride content (mg/kg)	
Fumed Silica HB-139	67762-90-7	80-120	1.5	5.5-7.5	10.0	40-60	99.8	4.5-6.5	250	
Product Name		CAS Number	Surface area	(m ₃ /g)	Loss on drying at 105°C (wt.%)	pH value (4% dispersion)	Bulk density (g/l)		SiO, content (wt.%)	
Fumed Silica K-P20		67762-90-7	10	0-140	0.5	4.0-7.0	50		99.8	

Polydimethylsiloxane series (PDMS)

Polydimethylsiloxanes (PDMS) belong to a group of polymeric organosilicon compounds that are referred to as silicones and are the most widely used silicon-based organic-polymer. Polydimethylsiloxanes (PDMS) are particularly known for their unusual rheological or flow properties. They are optically clear and inert, non-toxic, and non-flammable. Connect Chemicals offers a full range with different molecular weight to satisfy the specific requirement of each specific applications.

Applications

- Automotive Coatings Enhances gloss, water beading, and scratch resistance.
- Marine & Anti-Fouling Coatings Prevents biofouling on ship hulls.
- Self-Cleaning & Anti-Graffiti Coatings Reduces dirt accumulation on buildings.
- Industrial Protective Coatings Provides UV, chemical, and heat resistance.
- Powder & Wood Coatings Improves flow, leveling, and slip properties.

Polymethylhydrosiloxane (PMHS)

PMHS (Polymethylhydrosiloxane) is a type of silicone polymer with reactive Si-H (silicon-hydrogen) bonds. It is widely used in coatings due to its unique properties, such as hydrophobicity, cross-linking ability, and thermal stability.

Applications

- Water-Repellent and Anti-Corrosion Coatings PMHS is often used to create superhydrophobic coatings, making surfaces water-resistant.
- Crosslinking Agent in Silicone Coatings PMHS acts as a crosslinker in silicone coatings, enhancing durability, adhesion, and flexibility
- Surface Modification PMHS is used to modify surfaces by forming a hydrophobic layer, reducing water absorption and improving self-cleaning proporties.
- Binder for Functional Coatings PMHS helps in forming tough, flexible coatings by reacting with various fillers and additives.
 It is used in anti-fouling, anti-graffiti, and fingerprint-resistant coatings.
- Anti-Icing and Ice-Phobic Coatings PMHS's hydrophobicity minimizes ice adhesion on aircraft wings, wind turbines, and roads.
- UV-Resistant and Heat-Resistant Coatings PMHS boosts thermal and UV resistance in coatings, ideal for outdoor use in solar panels and industrial
 equipment.





Product Name	Organic							
Product Name Product Name Product Name Product Name Product Name Product Name Product Name Product Name Product Name Product Name Product Name Product Name Product Name Product Name Name	Product Name		CAS Number	Assay, min %	Color, max APHA	Water, max %	Phenol, max ppm	
Diethyl carbonate (DEC) 105-58-8 99.6 10 0.1 0.2	Phenoxyethanol		122-99-6	99.8	5	0.1	10	
Product Name Dimethyl carbonate (DMC) Product Name Prod	Product Name	CAS Number	Assay, min %	Color, max APHA		Water, max %	Ethanol, max %	
Product Name Prod	Diethyl carbonate (DEC)	105-58-8	99.6	10		0.1	0.2	
Product Name Value of		CAS Number						
Product Name Prod	Dimethyl carbonate (DMC)	616-38-6	99.5	10		0.1	0.5	
Eater Content Manage Man	Product Name	CAS Number	Assay, min %		Color, max APHA		Water, max %	
Leader Name CAS Number alcohol content max % and number mgKOH/g max Add number mgKOH/g max EAFER Content max % alcohol content mgKOH/g max A Assay, min % alcohol content mgKOH/g max EAFER Content max % alcohol content max % alcohol content mgKOH/g mgKOH/g max Image: A Assay, min % alcohol content max % alcohol content max % alcohol content max % alcohol content max % alcohol content mgKOH/g m	Propylene carbonate (PC)	108-32-7	99.5	5	40		0.1	
Product Name 30 99 35 10 60 35 Number Acidity max % content min % mgKOH/g max mgKOH/g max wgKOH/g max mgKOH/g mgKOH/g max mgKOH/g mgKO	Renewable							
Color APHA Color APHA Color APHA Viscosity at 25°C Water % max	Product Name	Acid number mgKOH/g max	Assay, min %	Hydroxyl value, mgKOH/g	Water, max %	Viscosity at 25°C mm²/s	OH number, mgKOH/9	
	FAVES	30	99	35	1	60	35	
	Product Name	CAS Number	Ester content, min %	alcohol content max %	Acidity mgKOH/g max	Color APHA	Water % max Viscosity at 25°C	mPa.s

Features & Benefits

Dibasic esters mix (DBE)

Dibasic ester (DBE) is a refined mixture of dimethyl esters of adipic, glutaric and succinic acids. DBE is a liquid non-flammable, readily biodegradable and non-corrosive with mild fruity odor. DBE is readily soluble in alcohols, ketones, ethers, and many hydrocarbons, but only slightly soluble in water and higher paraffins.



Got special requirements?

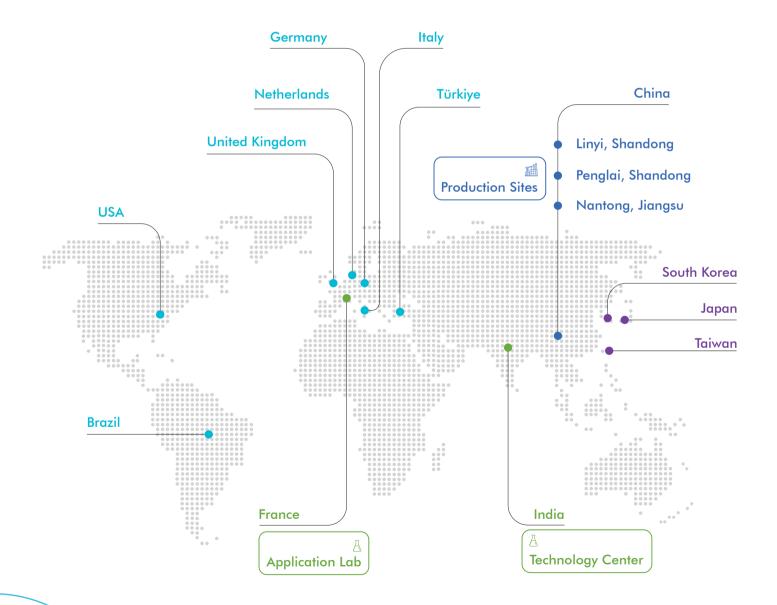
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OUR GLOBAL PRESENCE









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