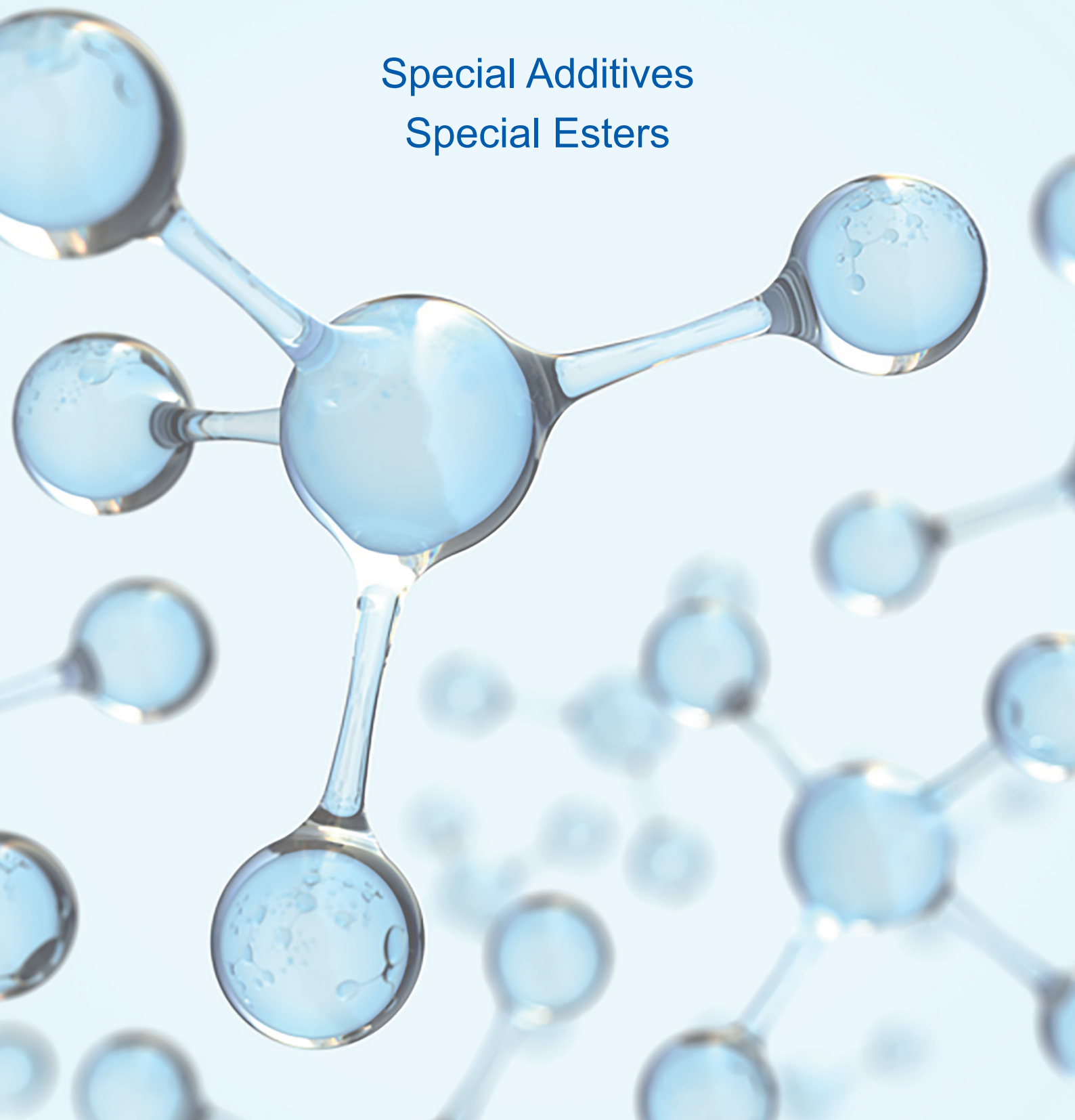




Special Additives Special Esters



POLYNT INTERMEDIATES & SPECIALTIES

Special Anhydrides and Special Esters

Production Site



EMEA

Polynt S.p.A.

(Cavaglià, Scanzorosciate - Italy)

Polynt UK Ltd.

Polynt Reichhold Group

After the merger on May 2017 the new Polynt-Reichhold Group is a global Company in the Intermediates, Coating and Composite Resins, Thermoset Compounds, Gel-coats and niche Specialties. This combination enhances the Group's leading position as a global vertically integrated specialty chemicals player, with significant global presence in Europe, North America and Asia, a strategy initiated by Polynt with the successful integration of PCCR and CCP in the last years and now further reinforced by Reichhold's global scale, extensive product portfolio and R&D competencies.

Polynt-Reichhold Group is known for its superior quality and impressive range of products and with its excellent distribution network it can provide first-class service to customers whatever their market. Customer Service and Technical Service teams are renowned for their customer focus, offering the best service even after products have left manufacturing.

The Group strives to keep customers satisfied, assisting them in producing premium quality products every time they use its products. Product innovation is important for the Group's business and it's the reason for which it constantly works with customers to find solutions to problems. Introducing new or improved products ensures that Polynt-Reichhold Group continue not only to deliver what the market wants and needs, but also when it is wanted and needed.

Special Additives and Special Esters

Special additives include special anhydrides and special esters. The company is one of the world major manufacturers of these products.

Special Anhydrides are maleic derivatives manufactured starting from maleic anhydride and conjugated double bonds compounds i.e. butadiene or isoprene. Some anhydrides grades can be further transformed by hydrogenation in order to impart them additional performance properties for example higher UV stability.

Thanks to its backwards integration in Maleic Anhydride, Polynt S.p.A. is a world major manufacturer of Special Anhydrides being the only European producer of such products. Our anhydrides are used in several industrial applications:

- As hardener for epoxy resin in the electronic and electrical markets, for the manufacturing of: LED and PCB (printed circuits boards), insulation of motors and generators, insulators, bushings and switchgears; electronic transformers and semi-conductors.
- As hardeners for epoxy resins in industrial sectors: high/medium pressure pipes for oil & gas and reverse osmosis, wind turbine blades and wind mill components, pultruded parts for electrical and composite applications.
- As raw materials for manufacturing resins for paint and coatings, plasticizers and as intermediate for miscellaneous applications.

Special Esters represent a large family of products like acetates, glycerol derivatives, low-molecular weight phthalates, citrates, maleates, fumarates, succinates and other organic esters used in special applications.

They find a wide range of applications such as: flavours and fragrances (solvents, fixatives, additives), cosmetics (emollients, solvents and plasticizers), food (additives, ingredients), pharmaceutical (excipients), polymers and plastics (plasticizers), paints and coatings (solvents and coalescent agents), adhesives (solvents, plasticizers), inks (plasticizers, solvents), peroxides (extenders and solvents), foundries (binder agents for molds and hardeners), tobacco (plasticizers for cigarette filters), leather (finishing agents), lubricants (metalworking additives), textile (additives).

The family of Special Esters includes:

- **Succinates:** DMS (Dimethyl Succinate); DIPS (Di-isopropyl Succinate); DEAS (Acetonyl Di-Ethyl Succinate); Di-Lynt ES; DES (Diethyl Succinate).
- **Esters of fatty acids:** Oleates: SMO Sorbitan monooleate, TMP TO Trimethylolpropane trioleate; Oleate, Laurate, Stearate PEGs esters: PEG 200 MO, PEG 200 DO, PEG 400 MO, PEG 400 DO, PEG 400 M, PEG 600 MO, PEG 600 DO, PEG 600 DT, PEG 1000 MS, PEG 400 ML.
- **Acetates:** 2 EHA 2-Ethylhexyl Acetate; EGDA Ethylene Glycol Diacetate; IPGA Isopropyl glycol acetate; IS AC isoamyl acetate.
- **Glycerol esters:** GDA - Diacetin: Glycerol diacetate; GTA - Triacetin: Glycerol triacetate; PRIACETIN™: Glycerol triacetate.
- **Acetates of glycol ethers:** BDGA (Diethylene glycol butyl ether acetate); 1,3 BGDA (1,3-butylene glycol diacetate); BGA (Monoethylene glycol butyl ether acetate); EDGA (Di ethylene glycol ethyl ether acetate); TEGDA (Triethylen-glycol diacetate).
- **Citrates:** TEC (Triethyl Citrate); ATEC (Acetyl Triethyl Citrate); DEC (Diethyl Citrate).
- **Phthalates:** DEP (Diethyl Phthalate); DMP (Dimethyl Phthalate).
- **Maleates:** DBM (Di-butyl Maleate); Dilynt EM (Diethyl Maleate); DOM (bis-2-ethylhexy Maleate).

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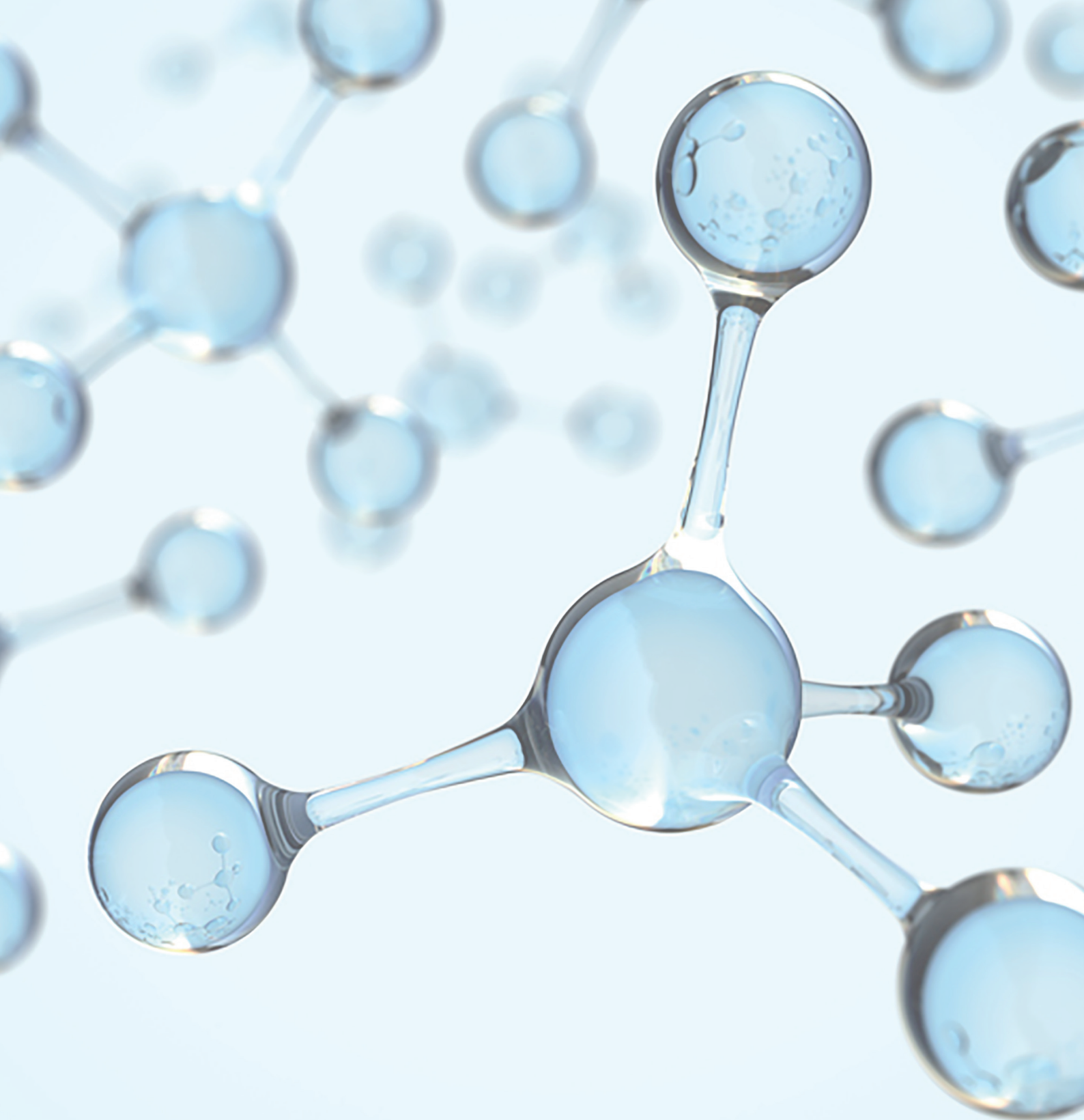
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