



Di-Lynt ES



Polynt Group Di-Lynt ES

The new concept of clean and safe solvent

Production Site



EMEA

Polynt S.p.A. - Scanzorosciate

Polynt 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.



Ecological and environmentally friendly cleaner for different uses

Polymers that can be dissolved in Di-Lynt ES:

- Cellulose nitrate
- Polyurethane resins
- Polyester resins
- Vinylester resins
- Vinyl resins
- Epoxy resins
- Acrylic resins
- Alkyd resins
- Amino-plastics
- Silicones

No dangerous substance concerning transport regulation for chemicals, ADR, RID, IATA, IMDG.

Low VOC emissions.

Biodegradable.

No dangerous.

No toxic.

Di-Lynt ES



Di-Lynt ES is a substance with high efficiency in cleaning, and it maintains a good solvent power in comparison to other conventional solvents.

Comparison study, with the commonly used solvents, in 12 months of solvent usage to clean dirty tools and vessels for polyester resins:

Substance	Amount (kg)	Solid waste (kg)	Waste (%)
Acetone	55000	18000	0,10
NMP	28700	18200	0,09
Di-Lynt ES	16000	14500	0,07

APPEARANCE	LIQUID UNCOLORED
Odour	Characteristic
Melting point	-29 °C
Boiling point	217 °C
Flash point	98 °C
Ignition temperature	431 °C
Vapour pressure	5,9 Pa @ 25 °C
Water solubility	20,1 g/l @ 20 °C
Electric conductivity	$4,6 \cdot 10^{-7} \Omega^{-1} \cdot m^{-1}$

Environmentally Friendly solvent

Acetone	Toxic, flammable	
NMP	Teratogen, irritating	
Di-Lynt ES	Not dangerous [Reg. (CE) N° 1272/2008]	

- Easily biodegradable solvent, according to OECD 301B standard test method.
- Not considered a VOC (2010/75/EU directive).

Handling

- Packaging

Steel painted drum 200 Kg.

IBC 1000 Kg.

- Storage

Avoid storing the material below 5 °C and away from direct sun light; if the product becomes frozen, heat Di-Lynt ES @ 40 °C for four hours.

- Distillation

Di-Lynt ES can be easily recovered by distillation vacuum: heat the dirty solvent @ 140 °C for 30 minutes to distillate the low boiling product as styrene, later increase the temperature @ 190 °C to distillate the Di-Lynt ES using vacuum -0,6 bar.

- Shelf life

24 months from the production date.

A person wearing a white protective suit and blue gloves is shown from the waist down. They are holding a white spray bottle in their right hand and a blue sponge in their left hand. The background is a bright, slightly blurred workshop or laboratory setting.

Cleaner for polyurethane systems

Di-Lynt ES can be used to substitute methylene chloride.
Safe for workshop use.
Not flammable, very low VOC emission.
Not reaction with polyurethane systems bicomponent.
It can be used as cleaner for uncured systems.

Cleaner for polyester resins systems

Di-Lynt ES can be used as a cleaner to dissolve polyester resins and dirty tools for composite materials manufacturing.

Acetone substitution

Di-Lynt ES is a very low environmental risk in the workshop, for safety and for human health. It can be used as cleaner even for not completely cured resins.

	Acetone	Di-Lynt ES
Vapor pressure	31 kPa @ 25 °C	5,9 Pa @ 25 °C
Flash point	-18 °C	98°C

Industrial cleaner

Di-lynt ES is a valid alternative to the common solvents used to work safely and in compliance with the environmental regulations.

- Cleaning systems for acrylic resins.
- Diluents for acrylics.
- Cleans and dissolved resins used in the production of printed electronic circuits.
- Cleaning of equipment used with paints, as brushes, spray gun, vessels.
- Paint thinner.



Paint remover

Di-lynt ES can remove paints and protective coating from various bases such as wood, metals, and other substrates.

It can replace systems based on dangerous and highly volatile solvents such as dichloromethane and it can be used as solvent in paints formulations.

	Dichloromethane	Di-Lynt ES
Vapor pressure	55 kPa @ 25 °C	5,9 Pa @ 25 °C
Flash point	< 0 °C	98°C

Graffiti remover

Di-lynt ES results show that it is effective in removing paint from walls and other types of surfaces; due to its low evaporation it stays in contact on the substrate for a longer period of time. It can be applied and used with brush or high-pressure water to remove paints.



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