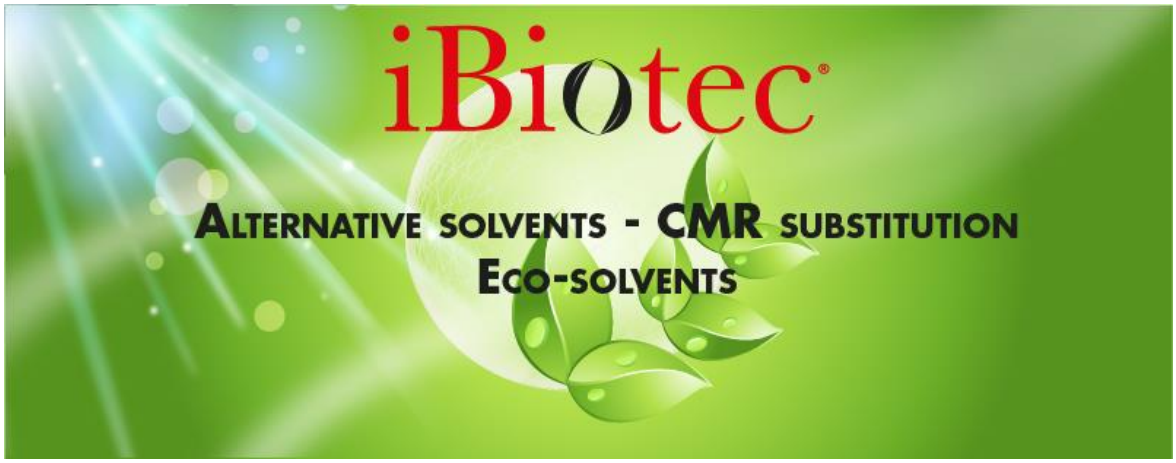

Datasheeet - *Last update: 2023/07/11*

iBiotec®

SERIMAX FAST 35

SOLVENT WITH A VERY HIGH EVAPORATION RATE
for cleaning screen printing inks
during production
Flash point: 35°C
Evaporation rate: 6 minutes

Compatible with all screens
Silk
PA Polyamide-Nylon
PEN UP Polyester
EVA Ethylene Vinyl Acetate
No voltage defects
No effect on block making
Guaranteed free from chlorinated solvents
Aromatics or ketones
Free from toxic or CMR products

AREAS OF USE
Pad printing cleaning during production
Scraper cleaning
Inkwell cleaning
Printing plate cleaning
Sleeve board cleaning


PHYSICAL AND CHEMICAL PROPERTIES

PROPERTIES	STANDARDS	VALUES	UNITS
Appearance	Visual	Clear	-
Colour*	Visual	Colourless	-
Odour	Olfactory	Fruity	-
Density at 25°C	NF EN ISO 12185	918	kg/m^3
Refractive index	ISO 5661	1.3970	-
Freezing point	ISO 3016	< -30	°C
Solubility in water	-	Insoluble	%
Kinematic viscosity at 40°C	NF EN 3104	1.0	mm^2/s
Acid value	EN 14104	0	mg(KOH)/g
Iodine value	NF EN 14111	0	$gI_2/100g$
Water content	NF ISO 6296	0	%
Residue after evaporation	NF T 30-084	0	%
PERFORMANCE CHARACTERISTICS			
PROPERTIES	**STANDARDS**	**VALUES**	**UNITS**
Kauri Butanol index	ASTM D 1133	177	-
Evaporation rate	-	6	min
Surface tension at 20°C	ISO 6295	24.8	Dynes/cm
Copper blade corrosion 100h at 40°C	ISO 2160	1a	Rating
FIRE SAFETY PROPERTIES			
PROPERTIES	**STANDARDS**	**VALUES**	**UNITS**
Flash point (vacuum)	ISO 2719	35	°C
Self-ignition point	ASTM E 659	> 200	°C
Lower explosive limit	NF EN 1839	0.4	% (by volume)
Upper explosive limit	NF EN 1839	4.8	% (by volume)
TOXICOLOGICAL PROPERTIES			
PROPERTIES	**STANDARDS**	**VALUES**	**UNITS**
Anisidine value	NF ISO 6885	0	-
Peroxide value	NF ISO 3960	0	$meq(O_2)/kg$
TOTOX (anisidine value + 2x peroxide value)	-	0	-
CMR, irritating and corrosive substance content	CLP Regulation	0	%
Residual methanol content from transesterification	GC-MS	0	%
ENVIRONMENTAL PROPERTIES			
PROPERTIES	**STANDARDS**	**VALUES**	**UNITS**
Biodegradability	OECD 301	biodegradable	-
Vapour pressure at 20°C	-	1.2	kPa
VOC content (Volatile Organic Compounds)	-	100	%
Sulphur content	GC-MS	0	%
Benzene content	ASTM D6229	0	%
Total halogen content	GC-MS	0	%
Chlorinated solvent content	-	0.00	%
Aromatic solvent content	-	0.00	%
Environmentally hazardous substances content	CLP Regulation	0	%
Content of compounds with a GWP	-	0	%

Content of compounds with an ODP	-	0	%

In the field of screen printing, the wide variety of inks used means that a number of different cleaning solvents are required.

This is more of a problem for custom screen printing companies that print on a wide variety of media.

Traditional cleaning solvents are mixtures of benzene hydrocarbons (CMR: Carcinogenic, Mutagenic or Reprotoxic) with additives containing glycol ethers and cyclohexanone, aromatic solvents such as toluene or xylene, ketones such as acetone, methyl ethyl ketone or methyl isobutyl ketone, or ethyl acetate, or methylene chloride.

All of these solvents, whether pure or mixed, are extremely dangerous in terms of toxicity, the environment and their fire risk.

While ink manufacturers are developing increasingly high-performance water-based products, operators usually continue using dangerous cleaning solvents, given the low versatility of use of water-based solvents on the resins of different chemical families (matrices).

The SERIMAX products offered by IBiotec solve all of these problems.

In line with CLP 1272/2008 (amended version 1079/2016), no ‘danger’ pictogram as regards toxicity to operators.

Flash point/evaporation rate ratio optimised for SERIMAX FAST 35, for a quick and efficient intervention time on the machine.

Suitable for all ink families, including amalgams and dry inks.

MEDIA	INKS
PAPER, CARDBOARD (posters, wallpapers, particle boards, etc.)	Nitrocelluloses Vinyls Acrylics Pliolites (styrene acrylics)
METALS AND ALLOYS	Epoxies Polyesters
LACQUERED METALS (packaging, signs, etc.)	Nitrocelluloses
PLASTIC MATERIALS (with or without flame treatment, Corona effect) Cellulose acetate butyrate, polystyrene Acrylonitrile, butadiene, styrene copolymers Polymethyl methacrylates Polyvinyl chlorides, polycarbonates Polyesters, saturated polyesters, PET, PE	Cellulosic Vinyls Acrylics
NATURAL TEXTILES, SYNTHETICS, LEATHER	Plastisols Polyurethanes
GLASS, ENAMEL, PORCELAIN	Epoxies
ALL MEDIA PCB imageable soldermask, screen printing	UV (photocrosslinkable) EB (electronic bombardment) UV acrylates

PRESENTATIONS

1000 L container	200 L Keg	20 L Drum
		

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