

FP29

IMMEDIATE
ACETONE & MEK
REPLACEMENT

SafeSolvent

FP29 Safe Solvent has been created as a direct replacement for Acetone and MEK in the workplace. This product provides a much safer alternative for those who regularly use these products and are exposed to its hazardous elements. FP29 Safe Solvent uses its patented technology to reduce these health risks and provide a product with increased performance on all levels.

Possible risks from traditional acetone and MEK products include:

- Extremely flammable with a flashpoint of -18 Celsius for Acetone and -9 Celsius for MEK
- Irritation of the skin and mucous membranes
- Serious Cat.2 eye damage
- Repeated high exposure can damage the nervous system and may affect the brain.
- Headache, dizziness, intoxication, comas, in certain convulsive cases
- Nausea, vomiting, hematemesis, metabolic acidosis
- Specific toxicity for certain target organs
- MEK reacts violently with strong oxidants and inorganic acids. This generates fire and explosion hazard. Attacks some plastics.
- MEK may cause flash fires because the vapour is heavier than air and may travel along the ground, so distant ignition is possible.

Due to these associated risks, FP29 Safe Solvent is often used as a direct replacement for Acetone and MEK in many industries.

Some key differences with FP29 Safe Solvent include:

- High Flash Point of 29 Degrees Celsius, greatly reducing risks of flammability
- Drastically reduced health risks provided by patented technology, see SDS for more information.
- Extremely high Solvency strength - KB rating > 150
- Leaves no residue. Perfect for coatings applications
- Slow evaporative rate: FP29 Safe Solvent has an exceptionally slow evaporative rate which gives users a longer timeframe to work with the product and less amount of product is used. Tests have shown a reduced consumption rate by a factor of 5 compared to MEK per below chart.

Practical Test	MEK	Acetone	FP29 Safe Solvent
Evaporative rate of 25ml of each product when brush applied on a piece of steel	1.41 seconds	1.04 seconds	7.08 seconds

FP29 Safe Solvent immediately dissolves:

- Polyester resins
- Epoxy resins
- Gelcoat, including hybrids

Key Product Data

	STANDARDS	VALUES FP29 Safe Solvent	UNITS
CHARACTERISTICS			
Aspect	Visual	Limpid	-
Colour	Visual	Colourless	-
Odour	Olfactory	Characteristics	-
Density at 25°C	NF EN ISO 12185	889	kg/m ³
Refractive index	ISO 5661	1.397	-
Freezing point	ISO 3016	-50	°C
Boiling - Distillation	ISO 3405	119-126	°C
Vapour pressure 20°C	ASTM D 5188 EN 13016.1.2.3	1,2	kPa
Solubility in water	-	0.01	%
Kinematic viscosity at 40°C	NF EN 3104	0.86	mm ² /s
Acid number	EN 14104	<1	mg(KOH)/g
Iodine index	NF EN 14111	0	gl ² /100g
Water content	NF ISO 6296	<0.1	%
Residue after evaporation	NF T 30-084	0	%
PERFORMANCE CHARACTERISTICS			
KB Index	ASTM D 1133	>150	-
Evaporation rate	-	4.3	minutes
Surface tension at 20°C	ISO 6295	27.5	Dyne/ cm
Copper blade corrosion 100hrs at 40°C	ISO 2160	1a	Rating
FIRE SAFETY CHARACTERISTICS			
Flash point (vacuum)	NF EN 22719	29	°C
Self-ignition point	ASTM E 659	>230	°C
Lower explosive limit	NF EN 1839	1,2	% (volume)
Upper explosive limit	NF EN 1839	13,7	% (volume)
TOXICOLOGICAL CHARACTERISTICS			
Content of CMR substances, irritating, corrosive	CLP Regulation	0	%
Residual methanol content from transesterification	GC-MS	0	%
ENVIRONMENTAL CHARACTERISTICS			
Water hazard	WGK in German	1 - not hazardous to water	class
Primary biodegradability CEC 21 days at 25°C	L 33 T82	>70	%
Ready biodegradability OECD 301 A in 28 days	ISO 7827	>70	%
Disappearance of COD			
Ready and ultimate biodegradability OECD 301 D in 28 days	MITI modified	72	
Biodegradation at 67 days			