

SOLVENT CLEANER AND DEGREASER

1. INTRODUCTION

PSCH is highly refined non aromatic solvent cleaner specifically formulated for use on electric and electronic components where the use of traditional chlorinated hydrocarbon solvents is restricted for toxicity or operational reasons. PSCH may also be used as a degreaser for metals, plastics and painted surfaces including chlorinated rubber finishes.

2. CHEMICAL AND PHYSICAL PROPERTIES

Appearance	Clear colourless fluid
Flash Point	62°C Pensky martens closed cup
Auto ignition temperature	greater than 250°C
Specific Gravity	0.77
Boiling Point	180°C
Explosive limits	0.6 to 6.5% in air at 25°C
Vapour pressure @ 25Deg C	0.05 kpa
Occupational Exposure standard (voluntary)	300 ppm
Toxicity: Acute Inhalation (rat)	LC50> 715 ppm 4 hr exposure
Composition	Blend of highly refined non Aromatic petroleum distillates
CPL Regulations	Not classified
Shelf Life	Greater than 2 years

3. WHERE TO USE

PSCH was originally developed for use on electronic and electric components, where restricted space and associated toxicity prohibited the use of chlorinated hydrocarbons for cleaning and degreasing. PSCH may also be used for the removal of hydraulic oils and other soiling on a wide range of hard surfaces.

PSCH has no detrimental effect on:-

Magnesium AZ31B	Stainless steel 316L
Mild steel BS1449	Titanium ZA46
Aluminium L156	Cadmium plated steel
Acrylic paint	Polyurethane paint
Stress multiply plastic	Stressed plastic canopy

PSCH has been used widely as a replacement for 111 Trichloroethane in general cleaning, particularly where large components are involved and solvent vapour production may be harmful.

PSCH is not designed to be used via vapour degreasing systems.

PSCH may be used on both steel and aluminium surfaces prior to painting.

Adhesion of etch primers is not affected. PSCH is not aggressive to viton or neoprene rubber.

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4. HOW TO USE

Use at normal ambient temperatures. Test surface prior to large-scale application. Use as supplied without dilution. Apply by brush spray or dip tank to article to be cleaned. Agitate stubborn deposits with soft brush before allowing to dry naturally or with air assistance.

Most operations with PSCH are carried out at normal ambient temperatures; however, sometimes an increased evaporation rate by using warm air or higher operating temperatures is employed.

PSCH can also be used very efficiently in ultrasonic tank systems where cavitations caused by ultrasonics provides for a rapid and thorough degreasing and cleaning operation.

At 22°C the evaporation rate of PSCH is 9g/m²/hr, which may be increased to 45g/m²/hr at 40°C.

This latter temperature represents a practical upper operating temperature limit being sufficiently below the flash point to give an adequate safety margin both from flammability aspects or explosive risks. Vapour extraction is recommended when using warm PSCH.

Use PVC gloves when handling. Do not smoke. Do not spray near naked flames or sources of ignition.

ADDITIONAL PHYSICAL PROPERTIES

Property	Units	Min	Max	Typical Test Values	Method
Distillation range	'C				ASTM D 86
- initial boiling point		173		182	
- 50%		177	187	185	
- Dry point			193	192	
Flash Point	'C	56		57	ASTM D 93
Aromatic content	mg/kg		100	10	
Bromine index	mg/100g		50	10	ASTM D 2710
Colour Saybolt	-		+30	+30	ASTM D 156
Corrosion (3hrs @ 50'C)			1b	1a	ASTM D 130
Specific conductivity at 25'C	(Ohm cm) -1		*1.5 X 10 ⁻¹⁴	4 x 10 ⁻¹⁵	
Sulphur content	mg/kg		5	1	ASTM D 3120

* Cell constant = 1.5 X 103

Property	Units	Typical Values	Test method
Aniline point	'C	80	ASTM D 611
Benzene content	mg/kg	<1	
Density at 150C	kg/dm3	0.764	ASTM D 4052
Dielectric constant at 25'C		2.021	
Evaporation rate(n-BuAc=100)		9	
KB value		28	ASTM D 1133
Refractive index at 20'C		1.426	ASTM D 1218
Surface tension at 25'C	mN/m	23.3	Du Nouy ring
Viscosity at 25'C	mPa.s	1.13	ASTM D 445

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