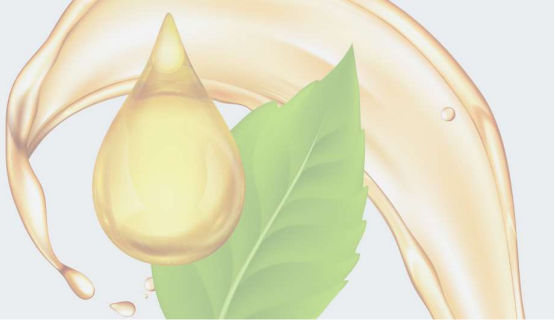
ReOil

SOLVENT CASE STUDY



Parts Washer cleaning solvent comparison

Industrial Cleaning & Degreasing solvents are widely used in a variety of applications, including Parts Washer Cleaning in the automotive and large earthmoving equipment industries. The solvent is expected to remove oil, grease and dirt from automotive parts and machinery with some manual brushing from the operator in an exposed sink/vessel. Suitable protection from the solvent is recommended through engineering design (eg ventilation) and operator PPE (eg gloves and masks).

NovaSolv160 was tested alongside a widely used solvent in the Australian market (named "Solvent X" in this case study) by an accredited overseas laboratory. Particular focus was placed on Occupational Health, Safety and Environmental (OHSE) parameters. Safe Work Australia have established limits for airborne contaminants, and identify benzene, toluene and xylene as major concerns. The EU and the US have also applied strict regulations to solvents used in these applications.

NovaSolv160 has NSF H-1 and HX-1 approval for incidental food contact.

Key benefits

- Negligible VOC & PCA
- Low odour
- Low Vapour Pressure
- High Flash Point
- 100% Renewable
- Impressive Biodegradability, ecotoxicity and bio-accumulation credentials
- Good Aniline Point / Solvency

Eco-Friendly Credentials

NovaSolv160 is environmentally friendly, non-toxic, and non-hazardous. Impressive biodegradability, ecotoxicity and bioaccumulation credentials are only surpassed by the fact that this product is carbon neutral and 100% renewable. NovaSolv160 is the ideal product for companies serious about their carbon footprint, sustainability targets and overall worker safety.

SPECIFICATION	TEST METHOD	UNIT	"SOLVENT X"	NOVASOLV160	COMMENTS
Density @ 15°C	ASTM D4052	kg/L	0.809	0.783	Performance efficacy is comparable
Kinematic Viscosity @ 40°C	ASTM D445	cSt	1.541	2.723	
Kinematic Viscosity @ 100°C	ASTM D445	cSt	0.777	1.186	
Aniline Point	ASTM D611	°C	64.0	83.0	
Flash Point, PMCC	ASTM D93	°C	79	131	Safe storage and handling requires careful consideration of flash point and vapour pressure at typical temperatures
Vapour Pressure	ASTM D2879	torr			
@ 25°C			0.4	<0.1	
@ 50°C			1.8	<0.1	
@ 100°C			19	1.6	
@ 200°C			511	89	
Hydrocarbon Type	ASTM D6591	% Mass			Tactile and inhalation exposure to staff (Carcinogenic risk to be considered)
Polycyclic Aromatics			7.64	<0.01	
Total Aromatics			21.56	<0.01	
Volatile Organic Compounds (VOC)	EPA 8260B	ppm			
BTEX (benzene, toluene, ethylbenzene & xylene)			91.61	<0.01	
Others			<0.01	<0.01	
Biodegradability	OECD 301B		unknown	>70%	Environmental impact
Renewability content	ASTM D6866-C		unknown	100%	

* Refer to each respective current Product Data Sheet for updated specifications. The above data is for general comparison purposes only and may contain some approximate or extrapolated figures to allow for suitable cross-referencing. The values are not guaranteed for all samples.
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