ALFARES®
RESIN KLEEN

The Resin Kleen Range has been carefully designed to address an increasing need to replace traditional solvents such as:

> Methylene Chloride
> Acetone
> Methylpyrrolidone
> Tetrahydrofuran

and other harmful materials.

These products are subject to increasing pressure as a result of their unfavourable environmental characteristics.

www.alfa-chemicals.co.uk

Responsible Care

The Chemical Business Association (CBA) awards companies the right to use the CBA logo which indicates we are committed to and practising Responsible Care. Responsible Care is the industry's commitment to continuous improvements in health, safety and environmental performance (CBA, 2015).

Contact us for samples, product information and technical assistance:

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ALFA CHEMICALS

SPECIALITY SOLVENTS:

Alfares® Resin Kleen range

ALFA CHEMICALS

Alfares® Resin Kleen PS

- > Ultimately Biodegradable
- > Low VOC
- > High solvency
- > Low toxicity
- > Non-chlorinated

APPLICATIONS

Resin Kleen PS is a high solvency, low VOC, biodegradable solvent system for industrial cleaning applications. Resin Kleen PS can replace THF, NMP and other harmful solvents. Resin Kleen PS is designed for use at ambient and elevated temperatures.

Resin Kleen PS is extremely effective at removing uncured or partially cured polyether sulphone, epoxy and polyester resins and polyurethane foam.

Resin Kleen PS is used to remove sealants and adhesives from application tools and spray guns used in conjunction with epoxies, polyurethanes and polyesters.

USAGE GUIDELINES

Developed for use at ambient and elevated temperatures with agitation (up to 60°C on metal and PTFE parts).

BIODEGRADABILITY

Resin Kleen PS is 94% biodegradable after 28 days and is considered Ultimately Biodegradable.

COMPATIBILITY

Stainless steel is recommended for storage and piping below 100-120°C. Please contact us for more information.

PHYSICAL PROPERTIES*

Appearance	Clear liquid
Flash Point, (closed cup)	108°C
Freezing Point	< -10°C
Hazard Classification	Xi: Irritant
Risk Phrases	H319/R36

*All values displayed in this literature are typical values and should not be considered a product specification.

Alfares® Resin Kleen HF

- > Readily Biodegradable
- > Low VOC
- > Low odour
- > High solvency
- > Low toxicity
- > Non-chlorinated

APPLICATIONS

Resin Kleen HF is a high solvency, low VOC, readily biodegradable solvent system for industrial cleaning applications.

Resin Kleen HF can replace methylene chloride, acetone and other harmful solvents. It is designed for use at ambient and elevated temperatures.

Resin Kleen HF is extremely effective at removing uncured or partially cured polyurethane foam, epoxy and polyester resin systems.

Resin Kleen HF is used to remove sealants and adhesives from application tools and spray guns used in conjunction with epoxies, polyurethanes and polyesters.

Resin Kleen HF is suitable for use in submerging systems for cleaning hot melt adhesive application tools.

USAGE GUIDELINES

Developed for use at ambient and elevated temperatures with agitation (up to 60°C on metal and PTFE parts).

BIODEGRADABILITY

Resin Kleen HF meets OECD 301 guideline and is considered Readily Biodegradable.

DISPOSAL SUGGESTIONS

Smaller processors. The most economical disposal method is to solidify the waste by adding a small amount of peroxide and resin. Dispose of as solid waste or via waste incineration.

Larger processors. It may be more economical to recover the solvent.

SOLVENT RECOVERY

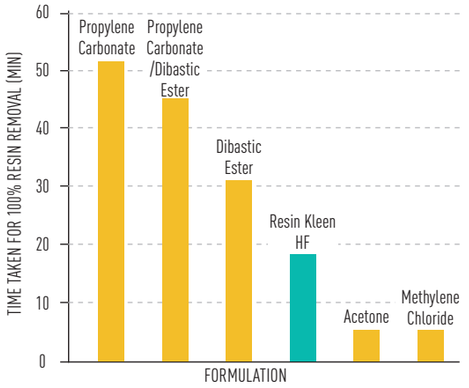
Resin Kleen HF can be recovered through filtering, followed by vacuum distillation. Laboratory testing shows recovery of up to 42% as a clear solvent. Please contact us for more information.

PHYSICAL PROPERTIES*

Appearance	Clear liquid
Colour	Colourless/pale yellow
Odour	low to ethereal
Flash Point, PMCC	> 80°C
Evaporation Rate	Moderate
Hazard Classification	Xi: Irritant
Risk Phrases	H319/R36

*All values displayed in this literature are typical values and should not be considered a product specification.

PERFORMANCE DATA



For a procedure in which polyester resin was coated onto aluminium strips, partially cured for (12 hrs) and submerged in a beaker containing the respective formulations, at ambient temperature in the absence of agitation (experiment covered under patent U.S. P. 6,187,108).