

American Polywater's

KC™

Electrical Cable & Equipment Cleaner

A Fast Acting Cleaner for Electrical and Electronic Use

Description

KC™ Electrical Cable & Equipment cleaner replaces CFC, HCFC, and chlorinated solvent contact cleaners. It is fast evaporating, non-flammable, and non-carcinogenic. KC™ Electrical Cable & Equipment Cleaner will not attack or degrade sensitive plastics and will not corrode metals. It is essentially non-conductive.

KC™ Electrical Cable & Equipment Cleaner effectively cleans oxidation, dust and light oils from electrical equipment. Use KC™ Cleaner to clean circuit boards, controls, switches, relays, etc. It will evaporate from the cleaned surface quickly, leaving no residue.

Advantages

- No Flash Point
- Fast Evaporating
- Harmless to Most Plastics
- Residue-Free
- Non-Conductive, Non-Corrosive, Non-Staining
- Not an RCRA-Regulated Hazardous Waste
- No Chlorinated Solvents

Physical Properties

Flashpoint (ASTM D93)	None
Initial Boiling Point	90° F (32°C)
Specific Gravity	1.4
Dielectric Strength (ASTM D877)	21 KV
Relative Evaporation Rate	Fast
Residue (ASTM D2369)	<100 ppm
Water Content (ASTM D1533B)	< 50 ppm
Propellant	HFE
Cleaning Strength	Good



KC™ Electrical Cable & Equipment Cleaner aerosol (cat. #KC-4 & KC-16) has a variable spray head (low, medium, and high) for better spray control.

Usage Directions/Performance

Use KC™ Electrical Cable & Equipment Cleaner to clean contacts and relays on electrical or electronic equipment. Position nozzle 6 to 8 inches (15 - 20 cms) from the surface. Spray liberally and allow solvent to flush oil and dirt. Use the extension tube for hard to reach areas.

KC™ Cleaner is a slightly stronger solvent than the CFC azeotropes that have been used for many years. It will clean light oils, silicone compounds, and fluorinated greases.

KC™ Cleaner evaporates instantly. Forced air, drying towels and heat are unnecessary. There is no time lost, waiting for it to dry.

Evaporation Rate

KC™ Cleaner:	250 mg/min.
Perchloroethylene:	20 mg/min.
CFC 113:	200 mg/min.
Odorless Mineral Spirits:	0.3 mg/min.

Compatibility

KC™ Cleaner will not corrode or stain metal parts. It does not tarnish or corrode copper per ASTM D 130 and D 1729.

KC™ Cleaner is compatible with most plastics and elastomers. Tables I and II show the effect of KC™ Cleaner on various plastics and rubbers. KC™ Cleaner has less effect on these materials than chlorinated solvents and pure HCFC 141b.

Testing is based on a soak test described in ASTM D 543. KC™ Cleaner will temporarily affect some rubber compounds. These rubbers may swell, but should return to their original state after the solvent cleaner has dried. Immersion will affect sensitive materials more than incidental contact of a spray and wipe. It is recommended that all plastic parts, gaskets, seals and O-rings be tested for specific use and exposure method.

Regulations

- USDA and MSHA approved.
- TSCA listed (U.S.A.) and DSL listed (Canada).
- Ozone Depletion Potential = 0.10
- Not listed as a hazardous air pollutant (HAP).
- Not regulated for ground transportation.

Safety

KC™ Electrical Cable & Equipment Cleaner has a low level of toxicity. It is not considered a carcinogen and is quite safe to use. Use with adequate ventilation. Wash hands after use. See MSDS for specific details.

Storage

Keep containers cool, dry and away from sources of ignition and oxidizing materials. Do not expose aerosol cans to direct sunlight or temperatures above 120°F. Do not puncture or incinerate aerosol cans.

Packaging

Catalog No.	Description
KC-4	4-wt. oz. aerosol can with adjustable nozzle
KC-16	16-wt. oz. aerosol can with adjustable nozzle in a 16 oz can

KC™ Compatibility with Plastics and Elastomers

TABLE I

PLASTICS	AGING 5 DAYS AT ROOM TEMPERATURE		
	% WEIGHT CHANGE	% THICKNESS CHANGE	APPEARANCE
ABS	+4.28	+3.10	NC
Acrylic	+0.27	0	NC
CPE Thermoplastic	+18.23	+3.30	NC
CPE Thermoset	+14.87	+0.45	NC
Delrin®	+0.20	-1.45	NC
Epoxy	+0.32	0	NC
Nylon 101	+0.06	-0.27	NC
Polycarbonate	+1.26	0	C
Phenolic	+4.70	+2.93	NC
Polyethylene	+7.53	+1.17	NC
Polystyrene	+49.54	+16.86	ES
PVC	+0.05	0	NC
Teflon®	+1.43	+0.22	NC
Tygon®	+20.94	0	NC
Ultem® 1000	-0.01	+1.09	NC
Valox® 420	+0.09	+1.21	NC

TABLE II

ELASTOMERS	AGING 5 DAYS AT ROOM TEMPERATURE		
	% WEIGHT CHANGE	% THICKNESS CHANGE	APPEARANCE
EPDM	+34.69	+8.43	SS
Neoprene	+23.33	+20.07	SS
Nitrile	+26.37	+20.22	SS
SBR	+20.62	+9.65	NC
Silicone	+112.38	+31.32	S
Viton®	+48.12	+22.30	SS

KEY:

NC = NO CHANGES

C = CRAZING

SS = SLIGHT SWELLING

ES = EXTREME SOFTENING

S = SWELLING

D = DISSOLVED

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Important Notice: The statements here are made in good faith based on tests and observations we believe to be reliable. However, the completeness and accuracy of the information is not guaranteed. Before using, the end-user should conduct whatever evaluations are necessary to determine that the product is suitable for the intended use.

American Polywater expressly disclaims any implied warranties and conditions of merchantability and fitness for a particular purpose. American Polywater's only obligation shall be to replace such quantity of the product proven to be defective. Except for the replacement remedy, American Polywater shall not be liable for any loss, injury, or direct, indirect, or consequential damages resulting from product's use, regardless of the legal theory asserted.

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**Makers of Polywater® and Dyna-Blue® Cable Lubricants
and Pull-Planner™ 2000 Software**

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