



HYDREX[®] SP-50 Aqueous Cleaner

Technical Data Sheet

HYDREX SP-50 is a powerful aqueous spray cleaner designed for ambient or heated stencil and misprint cleaning and defluxing applications. This proprietary cleaner is based on mixture of modified alcohols and surfactants.

HYDREX SP-50 is a neutral pH cleaner, formulated to remove uncured Surface Mount Device (SMD) adhesives and raw solder pastes from stencils and misprinted circuit assemblies. It also removes rosin, no-clean and water-soluble flux residues from circuit assemblies.

HYDREX SP-50 is selected to remove difficult adhesives and pastes. For spray applications requiring a less aggressive, lower odor cleaner, HYDREX SP is recommended.

HYDREX SP-50 is also selected to (1) clean adhesives and pastes in one cleaning process, (2) reduce VOC (Volatile Organic Compound) emissions, (3) replace flammable/combustible solvents or alkaline-based cleaners and (4) improve operator safety.

HYDREX SP-50 is safe for use in batch stencil/misprint cleaning and defluxing equipment. Moreover, it offers excellent compatibility with many substrates and materials used in electronic cleaning applications.

HYDREX SP-50 is supported by a global network of technical representatives, capable of solving the industries most difficult cleaning applications.



HYDREX is a registered trademark of Petroferm Inc.

FEATURES & BENEFITS

- Neutral pH
- Excellent Solvency
- Non-Flammable
- Material Compatibility
- Low-Foaming
- Removes Raw Solder Pastes
- Removes Difficult SMD Adhesives
- Removes Lead-Free Flux Residues
- Used at Elevated Temperatures
- Non-Ozone Depleting

PROCESS

Application	Conc. (%)	Temp. °F (°C)
Stencil/Misprint Cleaning • Spray-In-Air	10*	115 to 130 (46 to 54)
Defluxing • Spray-In-Air	5 to 25	115 to 160 (45 to 71)
Rinse: Use deionized water at 80°F to 110°F (27°C to 43°C).		
Dry: Use ambient or heated forced air.		
<i>*Plastic Stencil Cleaning may require 10% to 25% concentration.</i>		

SOILS REMOVED

- Uncured SMD Adhesives
- Rosin Solder Pastes
- No-Clean Solder Pastes
- Water-Soluble Solder Pastes
- Epoxy Solder Pastes
- Ionic Contamination
- Lead-Free Flux Residues
- Rosin Flux Residues
- No-Clean Flux Residues
- Water-Soluble Flux Residues

PROPERTIES

Appearance.....	Clear liquid
Odor.....	Ether
Flash Point.....	156°F (69°C)
Flash Point (10%).....	None
Specific Gravity (25°C).....	0.92
pH value (10%).....	7.0 ± 2.0
Freeze/Thaw Stability.....	Stable
Viscosity (25°C).....	Approx. 1.0 cps (in use)
Vapor Pressure (20°C).....	< 1.0 mm Hg

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EQUIPMENT

- HYDREX SP-50 is suitable for use in a variety of commercially available cleaning equipment including batch spray-in-air washers.
- Bath concentration may be monitored by refractive index.
- Companies requiring new cleaning equipment may contact Petroferm for supplier recommendations.

HEALTH & SAFETY

Environmental

HYDREX SP-50 is a suitable alternative to ozone depleting substances and other materials with high environmental impact.

Health & Safety

HYDREX SP-50 is a suitable alternative to substances with high exposure hazards.

Fire Risk

HYDREX SP-50 is a suitable alternative to flammable materials.

SHELF LIFE

The shelf life for this product is thirty-six (36) months when it is stored in its original, sealed container at room temperature.

However, the product should be inspected after thirty-six (36) months from the date of manufacture prior to customer use.

Typical property data is not intended for specification purposes. Petroferm, its sales agents and distributors make no warranty of merchantability of the product or of product fitness for any particular purpose. This product and all information supplied are used at the purchaser's own risk. The purchaser assumes all risk of use or handling of the product, whether in accordance with directions or not.

ENVIRONMENTAL/REGULATORY

Ozone Depletion Potential (ODP).....	Zero
Global Warming Potential (GWP).....	Zero
Volatile Organic Compound (VOC).....	< 100 g/l (10%)
Significant New Alternatives Program (SNAP).....	*Approved
Hazardous Air Pollutant (HAP).....	No
National Emission Standards for Hazardous Air Pollutants (NESHAPs).....	Not regulated
Superfund Amendments and Reauthorization Act (SARA).....	Not regulated
Resource Conservation and Recovery Act (RCRA).....	Not regulated

**HYDREX SP-50 components*

DISPOSAL/SAFETY

Disposal: Petroferm recommends contacting your current or local environmental service company for disposal of this product.

Safety: Please see Material Safety Data Sheet for further information.

Storage: HYDREX SP-50 should be stored in the original container, preferably above 50°F (10°C), in a ventilated, fire-resistant building.

Packaging: HYDREX SP-50 is available in 38 lb (17 kg) pails and 420 lb (191 kg) drums.



Petroferm

Advanced Products for Advanced Cleaning

Petroferm Inc.

3938 Porett Drive • Gurnee, IL 60031 USA

Tel: +1 847-244-3410 • Fax: +1 847-249-6346

www.petroferm.com

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