

MicroCare™
ENGINEERED FLUIDS

71DE

Specialty Cleaning Fluid, Flux Remover and Carrier Fluid

Use for medium-duty degreasing of metal and plastic parts.

- Removes oils, greases, and waxes
- Ideal replacement for Novec™ 71DE
- Replaces HCFCs, HFCs, and CFCs

Introduction

A precision-engineered cleaning solution, MicroCare 71DE Engineered Fluid delivers effective cleaning results with outstanding environmental and safety profiles. It is compatible with vapor degreasing systems for efficient, high-performance cleaning. It is a true azeotrope, with constant vapor and liquid composition at its boiling point.

Benefits

- Low Surface Tension – Enables penetration into tight spaces for thorough cleaning.
- Nonflammable – Enhances workplace safety by reducing fire hazards.
- Stable Azeotropic Formulation – Maintains consistent composition during boiling for reliable performance.
- Fast Drying – Evaporates quickly, reducing cycle times and improving efficiency.
- Safe Exposure Limits – High margin of safety for users with established exposure guidelines.
- Regulatory Compliance: Accepted under the EPA's SNAP program with fewer restrictions than traditional solvents.

Use Procedures

It is recommended that MicroCare™ 71DE Engineered Fluid be used in a vapor degreaser or closed-loop system to maximize cleaning efficiency, economy, and emission control. Cleaning procedures for MicroCare™ 71DE are like those of conventional vapor degreasing products. The procedures consist of immersing a workload into the vapor or boiling solvent, rinsing with solvent, and then drying in the solvent vapor.

Recovery

MicroCare™ 71DE Engineered Fluid is recoverable by simple distillation, either by using a vapor degreaser or a simple still apparatus, reducing waste and operational costs.

Recovery should be closely watched to ensure that the operating levels are supported. Spent ingredients and still bottoms need to be disposed of according to Federal, State, and local regulations.



Replacements for
3M™ Novec™
Engineered Fluids

We offer chemically equivalent fluid formulas for the ones you already rely on, delivering the same high-quality cleaning performance without costly operational changes.

Our products meet or exceed 3M Novec™ performance standards, and as a leading supplier of high-purity HFEs, we ensure they pass the industry's most stringent quality metrics.

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Applications

- Precision Cleaning – Removes contaminants from sensitive components in electronics and aerospace industries.
- Vapor Degreasing – Ideal for medium-duty degreasing of metal and plastic parts.
- Drying Agent – Assists in moisture removal from delicate components.
- Coating & Lubricant Deposition – Used where increased solvency is required.

Specifications

Property	MicroCare™ 71DE	MicroCare™ 71DA	n-PB	TCE	Vertrel™ MCA	Solstice™ PF	Tergo™ CCA	Tergo™ XCF1
BP (C)	41	40	71	87	39	19	38	54
KB value	27	33	125	129	25	25	32	44
Specific Gravity	1.37	1.33	1.35	1.46	1.41	1.26	1.36	1.39
Surface Ten- sion (dyne/cm)	16.6	16.4	25.9	29.3	15.2	12.7	18	21.7
GWP	160	157	16	630	806	1	270	<1
Plastic Com- patibility	Fair	Fair	Poor	Poor	Fair	Fair	Fair	Fair

Environmental Health and Safety

Properties	MicroCare™ 71DE Engineered Fluid
Ozone Depletion Potential-ODP ²	0.00
Global Warming Potential ³	160
Flash Point	None

¹ 62% HFC-4310 (C₅H₂F₁₀), 38% trans-1,2-dichloroethylene

² CFC-11=1.0

Storage and Handling

Before using this product, read carefully and follow all precautions and directions provided on the product label and on the Safety Data Sheet (SDS).

MicroCare™ 71DE Engineered Fluid is nonflammable and highly resistant to thermal breakdown and hydrolysis during storage and use. It is thermally and hydrolytically stable, keeping integrity under normal storage conditions without oxidation or degradation. To ensure the best performance, store containers in a clean, dry area away from direct sunlight, with a recommended storage temperature not exceeding 30°C.

For detailed handling and safety recommendations, refer to the SDS, available from your local representative or online at microcare.com.



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