

MicroCare™
ENGINEERED FLUIDS

72DE

Specialty Cleaning Fluid, Flux Remover and Degreaser

Use for medium to heavy-duty degreasing and coating and lubricant deposition.

- Removes oils, grease and particulate
- Ideal replacement for Novec™ 72DE
- Replaces CFCs, HCFCs, HFCs, nPB and chlorinated solvents

Introduction

A precision-engineered cleaning solution, MicroCare™ 72DE Engineered Fluid delivers effective cleaning results with outstanding environmental and safety profiles. It is Compatible with vapor degreasing systems for efficient, high-performance cleaning.

Benefits

- **Nonflammable:** Enhances workplace safety and reduces fire hazards.
- **Fast Drying:** Low surface tension and rapid evaporation improve efficiency and throughput.
- **Excellent Material Compatibility:** Safe for use with a wide range of metals, plastics, and elastomers.
- **Low Toxicity:** Favorable safety profile compared to traditional chlorinated solvents.
- **Environmentally Responsible:** Zero ozone depletion potential (ODP) and lower global warming potential (GWP) than many alternatives.
- **Regulatory Compliance:** Accepted under the EPA's SNAP program with fewer restrictions than traditional solvents.
- **Thermally Stable:** Resistant to breakdown in high-temperature applications.
- **Low Surface Tension:** Effectively penetrates tight spaces for thorough cleaning.



**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

- Removes flux residues from circuit boards and electronic assemblies.
- Effective for removing oils, greases, and particulate contaminants from sensitive electronics and metal components.
- Useful for moisture displacement in critical cleaning applications.

Suitable for cleaning oxygen system components due to its nonflammable properties.

Use Procedures

It is recommended that MicroCare™ 72DE Engineered Fluid be used in a vapor degreaser or closed-loop system to maximize cleaning efficiency, economy, and emission control. Cleaning procedures for MicroCare™ 72DE 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™ 72DE 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.

Specifications

Property	MicroCare™ 72DE	MicroCare™ 72DA	n-PB	TCE	Vertrel™ SDG	Tergo™ CCA	Tergo™ XCF2
BP (C)	43	44	71	87	43	38	47
KB value	52	58	125	129	95	32	118
Specific Gravity	1.28	1.27	1.35	1.46	1.29	1.36	1.28
Surface Tension (dyne/cm)	19	18	25.9	29.3	21.2	18	22
GWP	43	42	16	630	148	270	<1
Plastic Compatibility	Poor	Poor	Poor	Poor	Poor	Fair	Poor

Materials Compatibility

MicroCare™ 72DE Engineered Fluid is compatible with most metals and hard polymers. Material compatibility of polymers will be affected by the compounding agents, plasticizers, and curing process used in the manufacture of plastics and elastomers. Therefore, testing prior to use is particularly important.

Environmental Health and Safety

Properties	MicroCare™ 72DE Engineered Fluid
Ozone Depletion Potential-ODP ¹	0.00
Global Warming Potential ²	43
Flash Point	None

¹ CFC-11=1.0

² GWP-100 year ITH, CO₂ = 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™ 72DE 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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MicroCare.com



Follow Us!

MicroCare, LLC

595 John Downey Drive
New Britain, CT 06051 USA
Tel: +1 860 827 0626
Toll Free: 1 800 638 0125
Email: TechSupport@MicroCare.com

MicroCare U.K. Ltd

Unit 4, Whitehall Court
Leeds
LS12 5SN UK
Tel: +44 (0) 113 3609019
Email: MCCEurope@MicroCare.com

MicroCare Asia Pte Ltd

102E, Pasir Panjang Road
Citilink, #05-06
Singapore 118529
Tel: +65 6271 0182
Email: TechSupport@MicroCare.sg



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MicroCare.com