



# BestSolv™ 73DE

## Non-Flammable Precision Cleaning Solvent

### Technical Data Sheet

#### Features and Benefits

- Non-Flammable
- No Surface Residue
- Low Surface Tension
- Low Viscosity
- Low GWP
- Zero ODP
- No Flash Point

#### Cleaning Applications

- Cutting Oils
- Stamping Oils
- Hydraulic Oils
- Mineral Oils
- Vacuum Oils
- Rosin Solder Flux Residues
- PCBs
- Rinsing / Drying Agent

#### Industries Served

- Aerospace
- Military
- Electronic
- Semiconductor
- Optical
- Medical device

#### Introduction

BestSolv™ 73DE is a precision cleaning and degreasing solvent with an azeotrope-like mixture of 1,2 trans-dichloroethylene and fluorinated solvents. It is an exact molecule replacement for the 3M™ Novec™ 73DE, and a direct substitute for solvents like n-propyl bromide (nPB), trichloroethylene (TCE) and Chemours Vertrel®. This solvent blend offers nonflammability, low surface tension, high solvency, stability, and a kB value greater than 83, enabling outstanding performance in vapor degreasing equipment and general cleaning to remove both polar and non-polar contaminants.

BestSolv™ 73DE has low global warming potential (GWP 47), zero ozone depletion potential (ODP).

#### Physical and Chemical Properties

Boiling Point	118° F (48°C)
KB (Kauri-Butanol) Value	83
Liquid Density	1.28g/ml
Vapor Pressure	263 mmHg @ 20°C
Surface Tension	19.9 dynes/cm
Viscosity	0.38 cP
Heat of Vaporization	54.2 cal/g @boiling point
GWP	47

Data compiled from published information. Not for specification purposes.



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### Storage and Handling

BestSolv™ 73DE exhibits no flash point and is not classified as flammable by OSHA or DOT. As with almost all halogenated solvents, flammability limits exist in the presence of a high ignition energy source.

BestSolv™ 73DE is best stored inside a clean, dry area and out of direct sunlight or other heat sources. It is thermally stable and will not oxidize or degrade during storage under normal conditions. To prevent leakage or potential rupture of the container due to contraction / expansion and pressure changes, do not store below 32 °F (0 °C) or above 90 °F (32 °C)

### Environmental Properties

- SNAP EPA accepted substitute for ozone depleting substances
- Not subject to SARA Title III (EPCRA) reporting regulation
- Non-hazardous air pollutant (HAP) / Not regulated under NESHAP
- Low global warming potential (GWP 47)
- Low / zero ozone depletion potential (ODP)

### Health and Safety

Reference the SDS for details on:

- Individual chemical components
- Disposal
- Transportation
- Regulatory requirements
- Other information

### Materials Compatibility

BestSolv™ 73DE is compatible with common metals, most alloys and some polymers / elastomers. Initial compatibility testing on non-production parts is recommended. Material compatibility should always be performed via testing with specific contaminants under process-specific cleaning conditions.

### Product Use / Warranty

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