



# BestSolv™ 71DE

## 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

- Rinsing / Drying Agent Oils
- Oils, Greases and Waxes
- Coatings
- Lubricant dispositions

#### Industries Served

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



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#### Introduction

BestSolv™ 71DE is a medium duty precision cleaning and degreasing solvent with an azeotrope-like mixture with 1,2 trans-dichloroethylene and fluorinated solvents. It is an exact molecule replacement for the 3M™ Novec™ 71DE, and a direct substitute for solvents like n-propyl bromide (nPB), trichloroethylene (TCE) and Chemours Vertrel®. The increased solvency and low surface tension, nonflammability and constant composition during boiling of BestSolv™ 71DE fluid make it ideal for immersion and vapor degreasing applications. These properties also may make the azeotrope ideal for certain coating and lubricant deposition applications where increased solvency is required.

BestSolv™ 71DE has low global warming potential (GWP 160), zero ozone depletion potential (ODP).

#### Physical and Chemical Properties

Boiling Point	105.8° F (41°C)
Freeze Point	-11.2°F (-24°C) <sup>3</sup>
KB (Kauri-Butanol) Value	27
Liquid Density	1.37 g/mL
Vapor Pressure	383 <sup>2</sup> mmHg @ 20°C
Surface Tension	16.6 dynes/cm
Viscosity	0.45 cps
Heat of Vaporization	48 cal/g @boilingpoint

Data compiled from published information. Not for specification purposes.

<sup>3</sup> Critical Solution Temperature

<sup>2</sup>Estimated Value





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### Storage and Handling

BestSolv™ 71DE 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™ 71DE 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 160)
- 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™ 71DE 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

All information contained in this document is based on data believed to be reliable but the accuracy or completeness thereof is not guaranteed and are made without representation or warranty. Many factors can affect the use, performance, time and environmental conditions in a particular application. User is responsible for evaluation to determine whether it is fit for a particular purpose and application and products discussed are sold without warranty, expressed or implied, in law or fact.

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