

# BestSolv™ Theta

## 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



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#### Introduction

BestSolv™ Theta is a precision cleaning and degreasing solvent with an azeotrope-like mixture of 1,2 trans-dichloroethylene, fluorinated solvents and isopropyl alcohol. This solvent blend features of nonflammability, low surface tension, high solvency, stability and  $KB > 60$  allows for great performance in vapor degreasing equipment and general cleaning for polar and non-polar contaminant removal. The alcohol / isopropanol in BestSolv Theta fluid aids in removal of ionic soils.

BestSolv™ Theta has low global warming potential (GWP), zero ozone depletion potential (ODP) and is a replacement for 3M Novec® 71DA, n-propyl bromide (nPB), trichloroethylene (TCE) and Chemours Vertrel®.

#### Physical and Chemical Properties

Boiling Point	102° F (39°C)
KB (Kauri-Butanol) Value	63
Liquid Density	1.36 g/mL
Vapor Pressure	368 mmHg @ 20°C
Surface Tension	17 dynes/cm
Viscosity	0.41 cP
Flashpoint (Closed / Open Cup)	None

Data compiled from published information. Not for specification purposes.





# BestSolv™ Theta

## Storage and Handling

Based on Pensky-Martens Closed Cup (ASTM D93) or Tag Closed Cup (ASTM D56) methods, BestSolv Theta 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™ Theta 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)
- 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™ Theta 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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