



BestSolv™ Omega

Next Generation PFAS FREE Precision Cleaning Solvent

Technical Data Sheet

Features and Benefits

- Non-Flammable
- No Surface Residue
- Low Surface Tension
- Low Viscosity
- GWP < 1
- 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™ Omega is a next generation PFAS Free HFO based precision cleaning and degreasing solvent with an azeotrope-like mixture of 1,2 trans-dichloroethylene and fluorinated solvents. Formulated without HFE or HFCs and does not contain a fully fluorinated carbon atom allowing it to be PFAS free per EPA standards.

This solvent blend features of nonflammability, low surface tension, high solvency, stability and exceptionally high KB > 113 allows for great performance in vapor degreasing equipment and general cleaning for polar and non-polar contaminant removal.

BestSolv™ Omega has near zero global warming potential (<1), zero ozone depletion potential (ODP) and is a replacement for other cleaning solvents such as 3M™ Novec™, n-propyl bromide (nPB), trichloroethylene (TCE), methylene chloride and Chemours Vertrel®.

Physical and Chemical Properties

Boiling Point	114°F (45.5°C)
KB (Kauri-Butanol) Value	113
Liquid Density	1.27 g/mL
Vapor Pressure	341 mmHg @ 20°C
Surface Tension	22 dynes/cm
Heat Capacity	0.27 cal/g @ 20°C
Flashpoint (Closed / Open Cup)	None
VOC Content	1274 g/L

Data compiled from published information. Not for specification purposes.



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BestSolv™ Omega



Storage and Handling

Based on Pensky-Martens Closed Cup (ASTM D93) or Tag Closed Cup (ASTM D56) methods, BestSolv™ Omega 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. *(Low 9.7% / Upper 12.8% based on 1,2 trans-dichloroethylene)

BestSolv™ Omega 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 <1)
- 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™ Omega is compatible with common metals, most alloys and some polymers / elastomers. A full compatibility lab test chart is available upon request.

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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