

EnSolv Fluoro

NON-FLAMMABLE - Non- Brominated — Non-Chlorinated - VOC Exempt

Technical Data Sheet

Features and Benefits

- Zero Surface Residue
- Low Surface Tension
- Low Viscosity
- NON-Flammable
- NO Flash Point
- VOC Exempt
- High Boiling

Environmental Properties

- Zero Ozone Depletion Potential
- GWP of 580

Introduction

EnSolv Fluoro is for INDUSTRIAL USE only. It is not designed for consumer use.

EnSolv Fluoro is a VOC exempt solvent that can be used neat in light cleaning or as rinsing agent. Acting as a co-solvent it can add positive characteristics to heavy duty cleaning blends. It was designed as an ideal substitute for solvents like, Chemours Vertrel[®], 3M Novec[®], Honeywell's Solstice, HCFC-225 and others.

This Technical Data Sheet (TDS) details EnSolv Fluoro's physical and chemical properties, environmental profile, health, and safety information for typical applications. For further information please consult the Safety Data Sheet. (SDS)

Environmental Properties

EnSolv Fluoro's ingredients are listed acceptable by the U.S. EPA under the SNAP program as a substitute for ozone depleting substances are not subject to SARA Title III (EPCRA) reporting regulation. It is not considered a Hazardous Air Pollutant (HAP) and therefore is not regulated under NESHAP.

EnSolv Fluoro is not considered hazardous waste in the US as long as hazardous material is not deposited into the solvent during the cleaning process.

Applications

EnSolv Fluoro can be used as a light duty cleaner, co-solvent, and a carrier fluid for deposition of materials such as silicone and other lubricants. Its quick evaporation rate and low water content and preferable environmental properties make this an ideal solvent for use in the certain industries.

It can also be used as a heat transfer fluid, due to its non-flammability and low water content. It can replace HFC, CFC and HCFC in many applications.

Health and Safety

Refer to the SDS for detailed description of the figures for the individual chemical component of EnSolv Fluoro and required/ recommended PPE.

Materials Compatibility

EnSolv Fluoro is compatible with most polymers and elastomers typically encountered during industrial use.

The solvent is also compatible with stainless steel, aluminum, iron, and every other metal commonly used in precision parts manufacturing.

A complete reference chart showing plastics and elastomers compatibility is available on page 2 of the TDS. In laboratory bench test of widely used plastics and elastomers, there were very few incompatibilities found after immersion in coiling vapors for up to 15 minutes.



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EnSolv Fluoro

Physical and Chemical Properties

Appearance-----Clear & Bright
Flash Point -----None
Boiling Point -----56°C
KB Value -----13
Specific Gravity -----1.47 g/mL @ 25°C
Viscosity -----0.65mPa*s @ 25°C
Specific Heat-----1.28 KJ/kg*K@ 25°C
Vapor Pressure-----31kPa @ 25°C
Latent Heat of Vaporization @ bp -----163kJ/kg
Dielectric Constant-----6.6 @ 23C

VOC Content-----exempt

Flammability

EnSolv Fluoro exhibits no flash point on either Pensky-Martens Closed Cup (ASTM D93) or Tag Closed Cup (ASTM D56) methods and is not classified as flammable by OSHA or DOT. EnSolv Fluoro is not classified as flammable or hazardous for transport by DOT.

Storage and Handling

EnSolv Fluoro is thermally stable and will not oxidize or degrade during storage under normal conditions. It is recommended to store the product inside a clean, dry area and out of direct sunlight or other heat sources. Do not freeze or store below 32°F (0°C) nor above 90°F (32°C) to prevent leakage or potential rupture of container due to contraction/expansion and pressure changes. Drum pumps are recommended to dispense the solvent from its container. Refer to the Safety Data Sheet for more information or contact Enviro Tech for further assistance.

Material Compatibility

This product is compatible with all metals and most plastics and elastomers. Testing should always be done on parts to be cleaned in a particular process prior to implementing EnSolv Fluoro into the process.

COMPATIBLE MATERIALS

Polyethylene	Polypropylene
Polyvinylchloride (PVC, CPVC)	Acetal
Polyester (PET, BET)	Epoxy
Polyimide (PI, PEI, PAI)	PTFE, Teflon
Polyetherketone (PEK)	Polysulfone (PSO)
Polyaryletherketone (PEEK)	Phenolic
Polyarylsulfone (PAS)	Ionomer
Polyphenylene Sulfide (PPS)	EPDM

Packing Information

Product is available in the following sizes and weights:

5 Gallon Pail – 55 Lbs. (25 KG)
55 Gallon Drum – 551 Lbs. (250 KG)