

# Next HD Pro

NON-FLAMMABLE – No HFC's – Precision Cleaning Solvent

## Technical Data Sheet

### Features and Benefits

- Zero Surface Residue
- Low Surface Tension
- Low Viscosity
- NON-Flammable
- NO Flash Point
- High Solvency

### Contaminants Removed

- Adhesives
- Buffing Compounds
- Refrigerant Oils
- Greases
- Hydraulic Oils
- Silicone Oils
- Waxes/Pitch
- Drawing Oils
- And Many Others....

### Environmental Properties

- Zero Ozone Depletion
- GWP of 87



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### Introduction

Next HD Pro is for INDUSTRIAL USE only. It is not designed for consumer use.

Next HD Pro is a precision cleaning solvent mixture of 1,2-trans-dichloroethylene and proprietary fluorinated compounds. It was designed with no HFC's, for cleaning applications as a direct substitute for solvents like nPB, Chemours Vertrel®, 3M Novec®, HCFC-225 and others.

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

### Applications

Next HD Pro is Enviro Tech's newest 1,2 trans blend using no HFC's. This solvent blend is perfectly suited for vapor degreasing in modern equipment and general cleaning. Its solvency for hydrocarbon soils is superior to most similar high-trans fluorinated solvent blends. With a high KB value of 94, it can reliably replace other cleaning solvents such as n-propyl bromide (nPB) and trichloroethylene (TCE). It can also be used as a carrier fluid for deposition of materials such as silicone and other lubricants.

Next HD Pro has broad spectrum cleaning capability for many types of contaminants including cutting oils, heavy greases, stamping oils, gear oils, hydraulic oils, vacuum oils, mineral oils, waxes, and refrigerant oils.

### Environmental Properties

Next HD Pro 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.

Spent Next HD Pro is not considered hazardous waste in the US as long as a hazardous material is not deposited into the solvent during the cleaning process.

### Health and Safety

Refer to the SDS for detailed description of the figures for the individual chemical component of Next HD Pro and required/ recommended PPE.

### Materials Compatibility

Next HD Pro is compatible with most polymers and elastomers typically encountered during cleaning and vapor degreasing of precision parts, electronics, etc.

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.

# Next HD Pro

## Physical and Chemical Properties

Appearance	Clear & Bright
Flash Point	None
Boiling Point	45.5°C
KB Value	94
Specific Gravity	1.305 g/mL @ 25°C
Viscosity	0.41CP @ 20°C*
Heat Capacity	0.270cal/g @ 20°C*
Vapor Pressure	292 mmHg @ 20°C
Vapor Flammability in Air	Lower Limit – 5.7%* Upper Limit – 19%*
VOC Content	913.5 g/L

\*Calculated from 1,2 trans-dichloroethylene

## Flammability

Next HD Pro 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. However, as is true with almost all halogenated solvents, it does have flammable limits in air in the presence of a high ignition energy source (e.g., a welding torch). Next HD Pro is not classified as flammable or hazardous for transport by DOT.

## Storage and Handling

Next HD Pro 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 105°F (40.5°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 Next HD Pro 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

### INCOMPATIBLE MATERIALS

Polystyrene	Epichlorohydrin
Polyphenylene Oxide (PPO)	Silicone
Polycarbonate	Natural Rubber
ABS	Acrylic

## Packing Information

Product is available in the following sizes and weights:

**5 Gallon Pail – 50 Lbs (23KG)**

**55 Gal Drum – 551 Lbs (250KG)**