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Keyvex™ Ultra

Keyvex Ultra is a PFAS-free fluorinated solvent (accordance with the OECD definition of per- and polyfluoroalkyl substances (PFAS)) blend designed for light cleaning applications, providing an alternative to legacy solvents such as nPB, HCFC-225, HFC-based solvents, and other conventional cleaning chemistries. Its non-flammable nature, low viscosity, and high volatility make it suitable for precision vapor degreasing, ultrasonic cleaning, and other controlled industrial cleaning processes, effectively removing contaminants such as oils, greases, hydraulic oils, drawing oils, refrigerant oils, buffing compounds, and other process residues.

Key Performance Characteristics

- Designed for light cleaning applications.
- Broad spectrum cleaning capability: cutting oils, heavy greases, stamping oils, gear oils, hydraulic oils, vacuum oils, mineral oils, waxes and refrigerant oils.
- Extremely low VOC
- Azeotropic solvent blend
- Suitable for recycling and reuse in compatible cleaning systems.

Applications

- Precision metal component processing and cleaning
- Vapor phase degreasing and cleaning processes
- Silicone oil dilution and formulation applications
- Surface drying applications following wet processes

Industries Served

- Aerospace
- Automotive
- Electronics
- Medical Devices
- Optics and Photonics
- Semiconductor

Physical and Chemical Properties

Appearance	Clear & bright
Vapor Pressure (25°C), mmHg	240
Boiling Point, °C	54
Specific Gravity (25°C), g/mL	1.39
KB Value	44
Flammability Rate Lower (%)	7
Flammability Rate Upper (%)	14

Environmental & Regulatory Status

- Ozone Depletion Potential (ODP): 0
- Global Warming Potential (GWP): <1
- No flash point
- The product does not contain substances meeting the OECD definition of per- and polyfluoroalkyl substances (PFAS).

Materials Compatibility

Metals	Compatible with stainless steel, aluminum, iron, carbon steel
Plastics	PP, ABS, PET, BET, Nylon 6, PI, PEI, PAI, PTFE, PSO, PEEK, PVDF, rexolite, PPS, polystyrene, PFA
Elastomers	CSPR, neoprene, EPDM
Ceramics & Glass	Glass, alumina and common technical ceramics

Process Guidance

Recommended use	Precision vapor degreasing and ultrasonic cleaning
Equipment	Use clean, dry equipment constructed from compatible materials.
Operating range	Operate within the recommended process temperature and avoid heating beyond the product's boiling point.
Condensation	Maintain efficient vapor condensation to ensure effective rinsing, solvent recovery, and stable vapor zone operation.
Ventilation	Provide adequate local exhaust ventilation to prevent vapor accumulation.
Drag-Out Control	Allow sufficient drainage before removing parts
Water Control	Use water separator and avoid excessive water loading
Distillation	Suitable for recovery through properly designed solvent distillation
Monitoring	Regularly monitor solvent condition, boiling behaviour, and equipment performance.

Waste Disposal

Dispose of waste product in accordance with applicable regulations. Do not release into the environment. Recover or recycle the product whenever practical. Refer to the SDS for detailed disposal guidance.

Storage Handling & Shelf Life

- Store in tightly sealed containers in a clean, cool, and dry area away from direct sunlight and heat sources. Protect from freezing and prolonged exposure to temperatures outside the recommended storage range. Under normal storage conditions, Keyvex™ Ultra is thermally stable and resistant to oxidation and degradation.
- Shelf life: 24 months

Packaging

5 Gallon Pail – 55 Lbs (24.95KG)

55 Gal Drum – 551 Lbs (250KG)

Safety Statement

This document is not a Safety Data Sheet. Before handling, storage, transport, or disposal, users should review the latest Safety Data Sheet and conduct a workplace risk assessment according to local regulations.

Although no closed-cup flash point is reported, vapors may form from flammable mixture under certain conditions and in the presence of high-energy ignition sources. Use only with suitable vapor control, ventilation, and equipment grounding.

Limitation/Validation Statement

The information provided represents typical values and should not be treated as product specifications unless expressly stated. Suitability for a specific application should be confirmed by customer testing under actual operating conditions.