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Keyvex™ Ultra X

Keyvex™ Ultra X is a high-performance precision cleaning fluid formulated from trans-1,2-dichloroethylene (trans-DCE) and proprietary fluorinated compounds. Featuring a PFAS-free formulation in accordance with the OECD definition of per- and polyfluoroalkyl substances (PFAS), it delivers outstanding cleaning performance while offering a lower environmental impact than many conventional cleaning solvents.

Engineered for vapor degreasing, general cleaning, cold wipe cleaning, and carrier solvent applications, Keyvex™ Ultra X effectively removes a broad range of manufacturing contaminants, including cutting oils, greases, hydraulic oils, vacuum oils, waxes, silicone oils, flux residues, particulates, and refrigerant oils. Its excellent wetting and penetration characteristics enable rapid, residue-free cleaning of complex components and assemblies.

Key Performance Characteristics

- Delivers outstanding solvency for the effective removal of oils, greases, flux residues, waxes, particulates.
- Broad material compatibility.
- An azeotrope formulation maintains consistent composition during use
- Fully compliant with US EPA SNAP regulations without relying on HFCs or HFEs.

Applications

- Cleaning solvent for vapor degreasing and spray cleaning.
- Vapor degreasing for heavy-duty industrial cleaning.
- Effective for manual immersion, wiping, or ultrasonic bath cleaning without requiring thermal heating.
- Acts as an ideal carrier fluid for silicone lubricants, fluorinated oils, and specialized medical/industrial coatings.

Industries Served

- Aerospace
- Automotive
- Electronics
- Semiconductor

Physical and Chemical Properties

Appearance	Colorless, transparent liquid
Specific Gravity	1.278
Boiling Point, °C	45.5
Heat Capacity (20°C), cal/g	0.270
KB Value	113
VOC Content, g/L	1274

Environmental & Regulatory Status

- Ozone Depletion Potential (ODP): <1
- 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 & Alloys, Carbon Steel & Cast Iron, Copper, Brass, Bronze, Titanium, Nickel, Gold, Silver and Platinum.
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Plastics	PTFE, PEEK, PEK, PP, Polyethylene, Polyimide, PVC, CPVC, Acetal/Delrin, PSO/PAS, PPS, Phenolic and Epoxy.
Elastomers	EPDM, FFKM, FKM/Viton® and SilverShield®/Fluoropolymers.
Ceramics & Glass	Compatible with Optical Glass, Quartz, Borosilicate Glass, Alumina/Zirconia Ceramics and Silicon Wafers.

Process Guidance

Recommended use	Designed for vapor degreasing, immersion cleaning, carrier solvent applications.
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	Minimize solvent drag-out by allowing sufficient dwell time in the vapor zone and using appropriate drainage or drying cycles before unloading 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 X is thermally stable and resistant to oxidation and degradation.
- Shelf life: 24 months

Packaging

5 Gallon Pail – 50 Lbs (23KG)

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 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.