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Keyvex™ 7100

Keyvex™ 7100 is methyl perfluoroisobutyl ether supplied as a clear, colorless liquid with zero ozone depletion potential (ODP) and low surface tension. It is designed for use as cleaning and rinsing agent, anti-fingerprint coating solvent, and heat transfer fluid for semiconductor manufacturing processes. As a co-solvent, it enhances the performance of heavy-duty cleaning blends. Keyvex™ 7100 serves as an ideal replacement for CFC, HCFC, HFC and PFC.

Key Performance Characteristics

- Zero surface residue
- Low surface tension
- Excellent dielectric properties
- Non-flammable
- No flash point

Applications

- Solvent for anti-fingerprint coatings on electronic display screens
- Rinsing agent for removing fluoropolymers, particulates, and fluorinated lubricants
- Heat transfer and cooling medium for semiconductor processes, including dry etching, wafer testing, and packaging
- As a co-solvent, enhances the performance of heavy-duty cleaning blends for removing oils, greases, and flux residues

Industries Served

- Aerospace
- Automotive
- Electronics
- Medical
- Optic
- Semiconductor

Physical and Chemical Properties

Appearance	Colorless, transparent liquid
Density (25°C), g/mL	1.5283
Boiling Point, °C	61
Freezing Point, °C	-135
KB Value	9.85
Specific Heat (25°C), J·g ⁻¹ ·K ⁻¹	1.409
Kinematic Viscosity (25°C), mm ² /s	0.4868
Vapor Pressure (25°C), mmHg	199.5
Surface Tension (25°C), dynes/cm	14.15
Dielectric Strength (2.5 mm), kV	>41.9
Dielectric Constant (1 MHz)	8.2

Environmental & Regulatory Status

- Ozone Depletion Potential (ODP): 0
- Global Warming Potential (GWP): 320
- No flash point

Materials Compatibility

Metals	Compatible with common metals and most alloys: stainless steel, aluminum, carbon steel, copper-zinc alloy, brass, nickel, titanium
Plastics	ABS, PMMA, Epoxy, PE, PP, PC, PET, Phenolic, PTFE, PEEK

Elastomers	Butyl Rubber, EPDM, Natural Rubber, NBR, Silicone Rubber, Fluorosilicone
Glass & Ceramics	Alumina, Silicon Carbide, Silicon Nitride, Quartz, Borosilicate Glass, Soda-Lime Glass, Tempered Glass, Porcelain, Technical Ceramics

Process Guidance

Recommended use	Recommended for use in vapor degreasing, immersion cleaning, ultrasonic cleaning, and rinse cleaning systems.
Equipment	Use clean, dry equipment constructed from compatible materials.
Operating range	Operate at the solvent's boiling point with a stable vapor zone.
Condensation	Maintain effective cooling for efficient condensation and solvent recovery.
Ventilation	Use with adequate ventilation or local exhaust.
Drag-Out Control	Allow parts to drain before removal to minimize solvent loss.
Water Control	Use water separator and avoid excessive water loading
Distillation	Suitable for recovery through properly designed solvent distillation
Monitoring	Regularly monitor solvent condition, acidity, 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

- Stored in a clean, dry warehouse, away from heat sources, acids, strong alkalis, and oxidants, and protect from high temperature or direct sunlight.
- Keyvex™ 7100 is a colorless, transparent liquid with no flash point and is non-flammable. It is not classified as a dangerous good for transport.
- Avoid severe vibration during transportation, and do not store upside down during stacking.
- Shelf life: 24 months

Packaging

20 L/pail (25kgs) or 200L/drum (250 kgs)

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.

Stay away from fire, and high-temperature areas during stopovers. Transport vehicles should be equipped with corresponding types and quantities of fire-fighting equipment and leakage emergency treatment equipment.

SECTION 15. REGULATORY INFORMATION

USA TSCA: Listed

TSCA Section 12(b): Listed

EU REACH: Registered

Montreal Protocol: Not regulated

SECTION 16. OTHER INFORMATION

Disclaimer of liability

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage use, or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.