



# VertecBio™ ELSOL KTR1

## Bio-Based Thinning and Surface Preparation Solvent

### **Description**

VertecBio™ ELSOL KTR1 thinning and surface preparation bio-solvent based product has been specifically designed to replace commonly used methyl ethyl ketone (MEK) and other hazardous petroleum-based solvents used in epoxy and industrial coatings. VertecBio™ ELSOL KTR1 is highly effective and ideal as a thinning agent for epoxies. It is free from environmentally hazardous ingredients, completely biodegradable, safer for human exposure and non-carcinogenic.

Vertec Bio™ ELSOL KTR1 patented co-blend formulation is economically efficient due to its superior cleaning power and reduced usage compared to MEK. It exhibits excellent solvency in epoxies and other coatings resulting in superior flow characteristics. Our lower volatility and no-HAP (Hazardous Air Pollutant) bio-solvents provide a clean and residue free surface.

VertecBio™ ELSOL KTR1 bio-solvent is proven to work effectively in the most demanding of industrial environments. No more trial and error or disappointments with exaggerated claims. It just works.

### **Benefits**

- High performance thinning and surface preparation solvent for epoxies and other coatings
- Excellent solvency with epoxies and other coatings
- 20-30% more efficient in viscosity reduction compared to MEK
- High loading capacity
- Superior flow characteristics
- Dries completely and leaves no film residue as a surface preparation solvent
- Does not promote corrosion or pitting of metals – does not contain water and is immiscible in water
- Sweet and pleasant fragrance

### ***Vertec BioSolvents, Inc.***

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Downers Grove, IL USA

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### **Sales and Distribution**

### **PolyGroup Inc.**

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# VertecBio™ ELSOL KTR1

## Bio-Based Thinning and Surface Preparation Solvent

### Safety and Environment

- Safer for human exposure and non-carcinogenic
- No environmentally hazardous ingredients and 100% biodegradable
- Made from renewable resources/reduce Green House Gas (GHG)
- Low vapor pressure (slower rate of evaporation)
- Reduces state regulated/reported emissions
- Opportunity for hazardous waste reduction
- No Ozone Depleting Chemicals (ODC)
- No Hazardous Air Pollutant (HAP)
- Not SARA 313 reportable
- Non-hazardous under Resource Conservation and Recovery Act (RCRA)
- No California Proposition 65 listed ingredients
- No global warming compounds
- Ships “Non-Regulated” under Department of Transportation (DOT) Guidelines
- EPA approved Significant New Alternatives Policy (SNAP) solvent. Refer to <https://www.epa.gov/snap>

### Typical Property Comparison

			Hansen Solubility Parameters			
	Relative Evaporation Rate	Flash Point (°F)	Dispersion	Polar	H Bonding	Total
<b>VertecBio ELSOL KTR1</b>	<b>2.84</b>	<b>39</b>	<b>7.7</b>	<b>3.4</b>	<b>6.1</b>	<b>10.4</b>
Methyl Ethyl Ketone (MEK)	4.03	26	7.8	4.4	2.6	9.3

### TECHNICAL DATA

Flash Point ..39° F ASTM D3278 (Setaflash)  
 Vapor Pressure.....75 mmHg @ 68°F  
 PH of Water Dispersion.....4  
 Specific Gravity @ 25° C.....0.862  
 Evaporation Rate.....2.84  
 Boiling Point Range.....160°-312° F

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