

TECHNICAL DATA SHEET

TergoSol™

What is TergoSol?

TergoSol is a VOC compliant solvent that is an efficient, cost-effective alternative to acetone and Methyl Ethyl Ketone (MEK). Designed especially for hard surface, precision cleaning and aerospace applications.

TergoSol:

- is formulated to be benzene-free
- is non-carcinogenic
- does not contain
 - hazardous air pollutants (HAPs)
 - environmentally hazardous ingredients
 - ozone depleting or creating chemicals
- is "zero VOC" in 49 states
- is considered an Ultra-Low VOC Solvent in SCAQMD*
- is considered an Ultra Low VOC solvent in Canada**

Advantages

TergoSol:

- has high purity and is both biodegradable and less toxic than current solvent alternatives
- is VOC-compliant and therefore ideal for eliminating Volatile Organic Compound (VOC) emissions
- dries completely and leaves no surface residue

Uses

TergoSol is designed for a variety of uses and purposes.

- **TergoSol can be used in:**
 - paints formulations and cleaning
 - ink and marker formulations and cleaning
 - adhesive formulation and cleaning
 - hard surface cleaning
 - lubricating greases and oils
 - aerospace cleaning applications
 - automotive chemicals
 - nail polish and polish removers
- **TergoSol can also be used as a:**
 - surface preparation and precision cleaner
 - general purpose surface wipe cleaner
 - general and heavy duty degreasing
 - laboratory and equipment wipe solvent

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Physical/Chemical Characteristics

Upper Explosive Limit (UEL %)	15.22
Lower Explosive Limit (LEL %)	3.31
Auto Ignition Temp (°C)	455.8 (852.4 °F)
Flashpoint (°C)	4.5 (40.1 °F)
Average Molecular Weight (g/mol)	77.93
Initial Boiling Point (°C)	62 (143.6 °F)
Melting Point (°C)	-72.3 (-98.1 °F)
Density (g/mL @ 25 °C)	0.97 (8.10 lb/gal)
Viscosity (cP @ 25 °C)	0.89
Surface Tension (dynes/cm)	25.1
Specific Gravity	0.97
Solubility in H₂O (g/mL @ 25 °C)	0.216
Evaporation Rate (n-Butyl Acetate = 1)	5.35
Vapour Pressure (mm Hg @ 20 °C)	140.25
Vapour Density (mm Hg Air = 1)	2.73
Kauri Butanol (Kb) Value	54.7
Maximum Incremental Reactivity (MIR)	0.065
Purity (Wt % Min)	99.5%
Water Content (ppm)	<320
Colour (Alpha, max)	10 (Clear)
Volatility (%)	100
Heat of Combustion (btu/lb)	8583.8
(kcal/kg)	4771.3
Heat of Vapourization (btu/lb)	175.6
(kcal/kg)	97.8
(kJ/mol)	31.9
Specific Heat Capacity (J g⁻¹ K⁻¹)	2.0
Molar Heat Capacity (J mol⁻¹ K⁻¹)	157.8
VOC (g/L) (ASTM 313-91)	2.82 ***
Global Warming Potential (100 year GWP)	0
Hansen solubility parameters, total (MPa)^{1/2}	18.69
δD (dispersion)	15.5
δP (polar)	6.34
δH (hydrogen bonding)	8.13

*SCAQMD – South Coast Air Quality Management District CARB - California Air Resources Board

**2014 NPRI reporting guide, the reporting requirements for the Part 4 Total VOCs: <http://www.ec.gc.ca/inrp-npri/default.asp?lang=En&n=1FAA2366-1>

Should a facility have 20,000 employee hours or more, all sources of CACs that are released to the air (including VOCs) will need to be considered.

Part 4 Total VOC requires all releases, regardless of concentration, need to be calculated and summed. The total is then compared to the 10 tonne reporting threshold.

Should the threshold be met or exceeded, the facility will need to submit a Part 4 total VOC report whereby the report contains the total VOC release value for the facility.

TergoSol is considered comprised of 72% exempt material as per CEPA and NPRI.

In the European Union (EU), all components of TergoSol are registered under REACH.

*** TergoSol is comprised of a blend of VOC-exempt solvents and is therefore considered Zero VOC by the EPA. TergoSol is considered UltraLow VOC in SCAQMD.

NO WARRANTY IS MADE OF THE MERCHANTABILITY OR FITNESS OF ANY PRODUCT, AND NOTHING HEREIN WAIVES ANY OF THE SELLER'S CONDITIONS OF SALE.

TBF represents that the properties listed are accurate to the best of its knowledge. These are typical properties, TBF Environmental makes no representation that the material in any particular shipment will conform exactly to the properties listed.