

AVISOL 100

What is AVISOL 100? AVISOL 100 is a VOC-compliant, safe, low toxicity, cost-effective alternative to acetone and Methyl Ethyl Ketone (MEK).

AVISOL 100

- 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 VOC-compliant throughout North America
- is REACH compliant in the European Union

Advantages

- designed especially for precision, hard surface, composite and general-purpose cleaning applications
- may be used in automotive, aerospace, industrial, commercial cleaning applications
- may be used in formulation to replace Acetone
- higher flash point than Acetone
- dries completely
- leaves no surface residue
- high purity, low toxicity, biodegradable
- certified - Boeing Specification BAC 5750 Aerospace Solvent Cleaning

Uses

AVISOL 100 can be used in:

- paints and coatings formulations and paint gun and line 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

AVISOL 100 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



TBF ENVIRONMENTAL

technical data sheet

AVISOL 100

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)
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
(kJ/mol)	1555.1
Heat of Vaporization (Btu/lb)	175.6
(cal/g)	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.

AVISOL 100 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.

*** AVISOL 100 is a patented, proprietary blend of VOC-exempt materials and is therefore considered Zero VOC by the EPA. AVISOL 100 is considered an Ultra Low 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.