BIOSOL-H460 is a non-toxic solvent alternative to many solvents used in industry today. BIOSOL-H460 is a low-odor solvent that exhibits good solubility with other organic substances. This non-HAP solvent blend is a higher flash point alternative to t-BAc and can replace aliphatic and /or aromatic hydrocarbons in most formulations. Designed for use with many paints and coatings and can be used in formulating thinners/strippers, cleaners, concrete sealers and traffic paints. The applications for this non-toxic, nonhazardous, low odor and readily biodegradable solvent are endless.

Physical- Chemical Properties:

- \succ Sp. Gravity @ 20°C 1.1414
- **Initial Boiling Point** \geq
- Flash Point
- 32.2°C (90°F) est. \triangleright Evaporation Rate
- >1 (n-BuOAc = 1) est. VOC Content Refer to section entitled VOC status
- Hansen Solubility Dispersion - 18.1; Polar - 12.0; Hydrogen - 6.5;

>90°C (194°F)

Note: BIOSOL-H460 is available is available in higher and lower flash points on a custom order basis.

 \geq

Applications:

- \geq Excellent solvent alternative for acrylic, urethane, epoxy and alkyd systems
- \geq Excellent low odor, non-HAP, non-VOC alternative to aromatic and aliphatic solvents with appropriate (if needed) and/or reformulation work.
- \geq Replaces hydrocarbons, esters, glycol ethers and ketones, which are regulated by the US EPA and Safe Drinking Water Act.
- \geq Used in formulating coatings, paints, sealers, inks, adhesives, cleaners.

Comparison to Hydrocarbons:

BIOSOL-H460 can be used by formulators in the developemnt of more environmentally compliant formulations. It is an excellent non-hazardous, non-HAP low odor alternative to aliphatic and aromatic hydrocarbon solvents. Unlike hydrocarbon solvents which ae HAP's, 100% VOC and can contain carcinogens, BIOSOL-H460 contains no carcinogens or sensitizers. It is safer to use in production, safer worker health, and safer for the environment.

VOC Status:

BIOSOL-H460 contains dimethyl carbonate which was delisted by the US EPA as a VOC effective Feb. 2009. As of Nov. 2011 state level exemptions were approved in 45 states in the USA and approval is nearly completed in the remaining states. In California no blanket exemption exists for dimethyl carbonate as a VOC within the South Coast Air Quality Management District (SCAQMD). At this time it is best to confirm VOC status with the local air boards. Dimethyl carbonate is VOC exempt by the European Economic Community (EEC). Depending on the prevailing regulations, the VOC content of **BIOSOL-H460** is either 0% or 30%.



Clear, colorless liquid Slight Mild

Appearance

Odor

Solubility in Water



A **LIQUIGUARD** Product