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Bio-Solv Property Comparison

Bio-Solv is a multi-purpose solvent that can safely and more effectively replace numerous solvents. Chart A compares Bio-Solv to Acetone. Chart B, on the following page, compares Bio-Solv's attributes to Acetone and other common solvents.

Chart A: Compare the Properties:

	BioSolv	Acetone
SOLVATING		
Kauri Butanol (KB) Value	>600	N/A
Solubility Parameters		
Hildebrand	20.0	20.1
Hansen		
Disperse	7.8	7.6
Polar	2.7	5.1
Hydrogen	5.3	3.4
Solubility	Fully miscible in Hydrocarbons 60% Soluble in Water	Miscible in Water and Hydrocarbons
OTHER PROPERTIES		
Boiling Point	149C (300F)	57C (133F)
Flash Point (PMCC)	149 F	-4 F
Viscosity (CP)	1.8	0.31
Surface Tension (Dyne/cm)	28	23
Evaporation Rate (NBAC=1)	0.14	7.7

For more information, please contact us at 856-303-9245.



TRIED & PROVEN
BIO-SOLV
ACETONE REPLACEMENT

Epoxy Resin Systems
Bio-Solv ... Flexbond 5000 ... Low-Tox
Flex-Mold ... Infures ... Infucure ... BBEK





Chart B: Bio-Solv to Other Solvents Comparison Sheet

Attribute	Bio-Solv	Acetone	Lacquer Thinner	Toluene	Water Based Solvents that contain NMP *** or Glycols ****
Class 3 Flammable liquid	No	Yes	Yes	Yes	No
Explosive	No	Yes	Yes	Yes	No
May Contain Carcinogens or Reproductive Toxins (California Prop 65 List)	No	No	Yes **	Yes	Yes
Hazmat (Hazardous Material)	No	Yes	Yes *	Yes	No
Contains Hazardous Air Pollutants (HAPs)	No	Yes *	Yes **	Yes	No
Spills need to be contained , Diked and removed as Hazmat	No	Yes *	Yes *	Yes *	No
Bio-degrades quickly (days)	Yes	No	No	No	?
Special Storage and notification requirements.	No	Yes*	Yes *	Yes *	No
Can rust metal	No	No	No	No	Yes
Fires can be put out with water	Yes	No – Required Dry Chemical or Foam	No – Required Dry Chemical or Foam	No – Required Dry Chemical or Foam	Yes
EPA Design for the Environment	Yes	No	No	No	?

* Read MSDS Sheet for each solvent for information about health effects, spill containment and fire fighting information.

** Lacquer Thinner is not a chemical but an acetone base blended with other chemicals with different manufacturers producing different blends. Some blends contain benzene, toluene and other chemicals known to cause cancer and/or are Hazardous Air Pollutants. There are “greener” blends that contain mostly acetone.

*** NMP (Methylpyrrolidone) is on the Proposition 65 list of chemicals known to cause cancer or reproductive toxicity.



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