



ECOSOLV

A FAST EVAPORATING VOC EXEMPT SOLVENT

HI-GREEN BIOENERGY has been involved in manufacturing of eco-friendly products for the industry. ECOSOLV is a fast evaporating VOC exempt solvent. It can be used in applications where fast drying is of much importance.

HI-GREEN BIOENERGY

A-3, PUNIT IND. ESTATE,
ODHAV, AHMEDABAD-380004.
0091 94283 31959, 9879459042
Fax: 0091 79 22877092

siddharth@hi-green.com & higreen.bioenergy@gmail.com
www.hi-green.com

Introduction:-

EcoSolv is a clear, colorless liquid with non residual, pleasant odour. It has limited solubility with water; however it has good to high solubility with most common organic solvents. The boiling point of EcoSolv is 57 ° C which makes it fast evaporating. It dissolves wide variety of resins including many acrylics, vinyl, epoxies, urethanes, polyester, phenolics & cellulosic's. It doesn't dissolve rubber or polyvinyl chloride.

EcoSolv's fast evaporation rate suggests its use in formulation of fast dry industrial maintenance coatings, air-dry automotive refinish paints, aerosol coatings, and quick dry adhesives and spray applied furniture coatings.

We can offer you 2 grades with min assay of 99.5% & another with min of 97%.

The U.S Environmental protection agency has exempted this solvent from federal regulation as a volatile organic compound (VOC) effective from MAY11, 1998. EcoSolv joins the small group of fast drying eco-friendly solvents.

EcoSolv offers formulators a potent new tool to meet existing and upcoming VOC regulations. It is a highly active oxygenated solvent that dissolves a wide variety of common coatings resins. HI-GREEN BIOENERGY offers both technical grade (97% purity) and high grade 99% purity of use in specific applications. Both grades are available for immediate delivery.

SPECIFICATIONS:-

PARTICULARS	HIGH PURITY	TECH GRADE
ASSAY, wt%	Min. 99.5%	Min. 97.00 %
Water, wt%	Max. 0.05	Max. 0.10
Acidity as mg/kg	Max. 50	-
Color, PtCo	Max. 10	-

Applications:-

- Paints & coatings
- Solvent for adhesives(fast drying)
- Paint Stripper.
- Fuel system cleaner & additives.
- Inks: Flexographic , gravure, marking, writing & for inkjet printers.
- Solvent for personal care products.
- Cleaner for electronics, precision parts, photo resist strippers.

The VOC exempt status of EcoSolv would benefit companies looking to reduce emissions in any application where high solvency, fast evaporating solvent can be used.

Below is a comparison of EcoSolv with other fast evaporating solvents. Although it has essentially the same evaporation rate as acetone, methyl acetate offers high flash point and higher blush resistance making it easier to meet restrictions set by the formulator or coating user. It evaporates slightly faster than ethyl acetate and MEK suggesting it as a replacement for those solvents when lower VOC content is required.

PARTICULAR	METHYL FORMATE	METHYLENE CHLORIDE	DIETHYL ETHER	ECOSOLV	ACETONE	ETHYL ACETATE	METHYL ETYHL KETONE
Evaporation rate (BuAc= 1)	53	14.5	11.8	6.0	6.06	4.94	4.03
Boiling Point °F	89	104	94	135	133	171	175
Closed Cup Flash Point °F	-26	NONE	-20	14	-4	24	20
Vapour Pressure @ 25° C, mmHgA	585	438	538	215	231	93	92
Specific gravity, 20/4	0.974	1.328	0.714	0.932	0.792	0.900	0.805
Blush resistance, % RH	-	-	-	20	<20	39	45
Solubility in water @ 20 °C, wt%	33.0	1.3	6.9	26.8	Complete	7.4	27.0
Lower Flammable Limit, Vol% in Air	5	-	1.7	3.1	2.5	2.0	2
Upper Flammable Limit, Vol% in Air	23	-	48.1	16	13.0	11.4	11
Dispersion	-	8.9	7.1	7.1	7.6	7.7	7.8
Polarity							
Hydrogen Bonding	-	3.0	2.5	4.4	3.4	3.5	2.5
Overall	-	9.9	7.7	8.8	9.8	8.9	9.3

PACKAGING:-

EcoSolv is packed in 205 ltr HDPE drums, tanker load. It should be stored in tightly closed container in a cool dry ventilated area.

SAFETY:-

MSDS PROVIDED ON REQUEST.

LIMITED WARRANTY

All statements, technical information and recommendations contained herein are based on tests HI-GREEN BIOENERGY believes to be reliable, but the accuracy or completeness thereof is not guaranteed. HI-GREEN BIOENERGY shall have no liability for any injury, loss or damage arising out of the use of or the inability to use the products.

BEFORE USING, USER SHALL DETERMINE THE SUITABILITY OF THE PRODUCT FOR ITS INTENDED USE, AND USER ASSUMES ALL RISK AND LIABILITY WHATSOEVER IN CONNECTION THEREWITH. No representation or recommendation not contained herein shall not have an effect unless in written document signed by an officer of HI-GREEN BIOENERGY. IN NO CASE SHALL HI-GREEN BIOENERGY BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

eco-friendly

