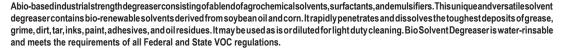


## Bio Solvent Degreaser

Bio desengrasador solvente





ENVIRONMENTALLY RESPONSIBLE COMPARISON	
Traditional Products	elements
d-Limonene	Methyl soyate
Chlorinated solvents	Benzyl alcohol
n-Methylpyrrolidone (NMP)	Ethyl lactate
Nonylphenol ethoxylates	Linear Alcohol Ethoxylate*
2-Butoxyethanol, Ethylene glycol monobutyl ether	Ethyl lactate
	Minimum Biobased Content > 41%

## **Traditional Compound Descriptions:**

**d-Limonene** – the terpene oil extracted from citrus rind and often used as a solvent. Volatile price due to highly weather dependent growing condition and increasing demand.

**Methylene Chloride** – a strong nonflammable solvent. However, California Prop 65 listed as chemical known to cause cancer.

**Nonylphenol ethoxylates** – a nonionic surfactant that is used to provide wetting and detergency. It is derived from a petroleum-based product. It has a suspected harmful biodegradable intermediate.

**2-Butoxyethanol** – an effective water-soluble solvent used to attack both water-soluble and water-insoluble inks and paints. It is a potential nose and eye irritant and may cause blood cell, liver or kidney damage if absorbed through skin.

## elements Compound Descriptions:

**Methyl Soyate** - biobased, made by the esterification of soybean oil. low toxicity, readily biodegradable.

**Benzyl alcohol** – a preferred alternative to methylene chloride, Meets LVP-VOC exemption criteria established by California Air Resources (CARB).

**Linear Alcohol Ethoxylate\*** - listed as Positive Environmental Profile surfactant on EPA design for the Environment Formulator Initiative. A non-ionic surfactant made from linear primary alcohol that biodegrades readily to compounds with low toxicity.

Ethyl lactate — biobased, derived from the processing of corn starch. low toxicity, readily biodegradable.

## PRODUCT SPECIFICATIONS

**Dark Yellow Emulsification: Excellent** Color: Odor: Melon Rinsability: Good Base: Soybean solvent-based Flash Point: 123 °F (TCC) N/A VOC (%w/w): pH: (Conc.) < 23 Viscosity: Thin **Biobased Content:** 42% (Calculated) Foam: Biodegradability: Complete Moderate Abrasive: None Storage/Stability: 1 year Phosphate: Weight Per Gallon: 8.02 lbs./gal. None Solubility: **Emulsifiable** Freeze/Thaw Stability: Keep from freezing