

elements™



environmentally responsible
maintenance solutions

E20



Bio Solvent Degreaser

Bio desengrasador solvente

Abio-based industrial strength degreaser consisting of a blend of agrochemical solvents, surfactants, and emulsifiers. This unique and versatile solvent degreaser contains bio-renewable solvents derived from soybean oil and corn. It rapidly penetrates and dissolves the toughest deposits of grease, grime, dirt, tar, inks, paint, adhesives, and oil residues. It may be used as is or diluted for light duty cleaning. Bio Solvent Degreaser is water-rinsable and meets the requirements of all Federal and State VOC regulations.



1:32

For General Cleaning

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

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