

EnvaSolv™ Biodegradable Solvents—where environment meets consistent supply.

Applications in the oilfield market:

- dissolve asphaltene and paraffin organic deposits
- wellbore clean-outs prior to cementing operations
- hydraulic fracturing stimulation
- antisludge application

Safe to handle—easy to transport

Envasolv are great performing dissolvers that are safer to handle and transport than Benzene, toluene, ethylbenzene, and xylene (BTEX) solvents and are not suspected to be human carcinogen. They are biodegradable, less toxic, and less flammable.

	Biodegradability 28 days	Guideline
EnvaSolv	81%	OECD 301 D

BTEX solvents offer good performance, but that performance comes at a high health price.

How do BTEX solvents affect health?

Dosage	Side effect
100-200 ppm	Nausea, headache
200-500 ppm	Feeling high, dizziness, weakness, irritability, vomiting
800-10000 ppm	Confusion, clumsiness, loss of balance
>10000 ppm	Sleepiness, loss of consciousness, death

Acute (short-term) exposure to its components benzene, toluene and xylenes has been associated with skin and sensory irritation, central nervous system-CNS problems (tiredness, dizziness, headache, loss of coordination) and effects on the respiratory system (eye and nose irritation).

Prolonged (chronic) exposure to BTEX compounds can affect the kidney, liver and blood systems. Long-term exposure to high levels of the benzene compound can lead to leukemia and cancers of the blood-forming organs.

You don't have to risk your health for performance. EnvaSolv Dissolvers offer high performance while being safe to handle. EnvaSolv is safer because:

- produced from renewable and sustainable resources
- readily biodegradable
- non-carcinogenic
- lower toxicity and higher flash point than BTEX Solvents

Consistency is key

Our dissolvers are derived from pine trees. Ample raw materials mean consistent supply, consistent pricing.



In 2016, the pricing for d-limonene products almost doubled. This is due to fluctuations with orange crops. Hurricanes, early or late frosts, excess rainfall, drought, and plagues of locusts have all negatively impacted the orange crop at one time or another. Citrus greening is one of the most threatened plagues for orange crops because once a tree is infected, there is no cure. Florida's citrus production has declined by 60 percent since the state's first case of citrus greening was confirmed in 2005. Stability is something you can't count on when it comes to d-limonene.



EnvaSolv dissolvers come from pine trees which are a much more stable raw material. You can depend on our consistent products and pricing.

Performance

In the chart below, EnvaSolv, a biodegradable solvent, dissolved this oilfield paraffin better than D-Limonene.

