



# PetroSolv™ Effective, Biodegradable, Low-Cost Non-Ionic Surfactant

PetroSolv™ is a low cost, biodegradable, non-ionic surfactant specially-formulated for cleaning, soil flushing and enhanced free product recovery. PetroSolv™ is also applicable for vapor suppression of volatile organic constituents.

## Properties and Characteristics

PetroSolv™ represents a major advancement in natural, biodegradable surfactant products – extremely effective yet environmentally responsible. PetroSolv™ is formulated for cost effective, simple specification and application. Additional product information includes:

Product Information	PetroSolv™ Characteristics
Packaging	5-gallon plastic jugs, 55-gallon drums or 275 gallon totes
Physical Composition	Clear or milky liquid
Changes groundwater pH	No
Water Soluble	No
Type of Surfactant	Non-ionic
Tracer Dye	Upon request
Effective Emulsification of:	LNAPL & DNAPL
Typical Injection Solution Strength	1-10%
Field Application Assistance	Yes, upon request
Safe for workers	Yes
Biodegradable	Yes
Typical Application Method	Dilute PetroSolv™ with water to make working solution

- ETEC manufactures, distributes and provides technical support
- Non-ionic surfactant designed for free-product recovery of petroleum or solvents
- Emulsifies and solubilizes free-product and soil bound contaminants
- Quantity estimates are based on impacted soil volume and extractable groundwater volume
- Use in conjunction with groundwater extraction or recirculation.

**PetroSolv™**

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# PetroSolv™

## Proven Effective Applications

### Soil Remediation

A dilute solution (typically 1-10%) is injected into the impacted zone to solubilize and mobilize NAPL that is trapped in the soil. When surfactants are introduced into a water/fuel system, they have two major results: 1) temporary mobilization/emulsification of free and sorbed NAPL and 2) solubilization of residual NAPL (making it more bioavailable). In order to stimulate biodegradation of residual solubilized NAPL that is dissolved in groundwater as a result of the surfactant injections, ETEC typically recommends application of our PetroBac™ and CBN™ (nutrients and secondary electron acceptors) for aerobic degradation and CarBstrate™ for reductive remediation. The application of bioremediation products supports the degradation of mobilized contaminants that may be left behind following the surfactant-flushing event and provides treatment for many months following treatment.

### Emergency Response

Application of PetroSolv™ makes for quick clean up of roadway surfaces and eliminates hazardous oil sheen. When PetroSolv™ is applied directly to a fuel spill it rapidly reduces the fire and explosion risk (i.e. lowers the LEL readings) to make the area safe to continue cleanup activities.

### Equipment Decon and Tank Cleaning

Applied using a pressure washer or steam/hot water cleaning system, PetroSolv™ can take care of all your tough to clean equipment and tools. Used on tank cleaning, remediation and drilling sites for decontamination and in refineries and industrial maintenance operations to improve operation. PetroSolv™ is a low cost solution to addressing your oily mess.

### Excavation Odor/Vapor Suppression

Applied in a dilute solution, PetroSolv™ can be sprayed on stockpiles or exposed excavation surfaces to reduce volatilization of hazardous VOCs and eliminate odors. PetroSolv™ is a biodegradable, low cost alternative to foam sprays. Applied with our PetroBac™ and CBN™, you can promote long term biological degradation of residual impacts left behind after hot spot soil removal.

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INFO@ETECLLC.COM



(971) 222-3616



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