

biosolve®

WATER-BASED HYDROCARBON MITIGATION AGENTS™



- » Reduces Volatility
- » Increases Solubility
- » Accelerates Biodegradation

The leading specialty surfactant formulation used by professionals to mitigate contamination from oil, fuel and other hydrocarbons



Vapor Suppression



Soil



Remediation

Used Worldwide by Environmental & Industrial Contractors, Utilities & Municipalities

BioSolve.com

Tank Cleaning & Degassing



BioSolve PINKWATER, brand leader and industry workhorse for over 30 years. Formulated with our signature magenta dye for traceability. Sold only as a concentrate.



BioSolve CLEAR, same concentration and performance as Pinkwater, without traceable magenta dye.



NEW BioSolve Activator, formulated as a high performance emulsification surfactant for improved soil remediation. Meets EPA's Safer Choice Standard as well as OECD standard for Ready Biodegradability.



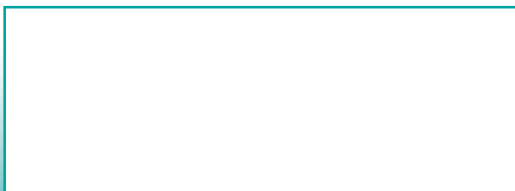
BioSolve FOGwash, same concentration and performance as Pinkwater, with no fragrance and less color. FOGwash is formulated for professional use in both commercial & industrial kitchens. (Sold only in cases/gallons.)

BioSolve products sold in:

Units	US Gallons	Liters	Pallet
Tote	275	1,041	1 unit
Drum	55	208	4 units
Pail	5	19	24 units
Case	4 x 1G	4 x 3.8L	27 units



Authorized BioSolve Distributor



TO ORDER CALL **800 225-3909**



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BioSolve.com

APPLICATIONS ◀



Vapor Suppression & Odor Control >> PINKWATER • ACTIVATOR

Diluted in large mixing tanks, Pinkwater and Activator are used at major remediation and construction work-sites where excavation of contaminated soils may release noxious organic odors or hazardous VOCs. The dilute solution is sprayed directly onto newly exposed soil surfaces or stockpiles of contaminated material where volatilization is taking place. Used as an alternative to foam, our products create a barrier that keeps vapors in the soil, allowing work to continue safely without disruption to workers or neighbors.

Soil Remediation >> ACTIVATOR • PINKWATER

In-situ, a dilute solution is injected into contaminated subsurface zones to mobilize and solubilize NAPL trapped in the soil. The effluent is then extracted under careful hydraulic control and treated prior to discharge. For ex-situ remediation or soil washing, Pinkwater and Activator are used as washing agents to remove hydrocarbons. Following the wash, soil is rinsed, dried and returned to grade. On bioremediation or land farming projects, the ability to micro-emulsify hydrocarbons results in enhanced bioavailability for naturally occurring hydrocarbon degrader bacteria. This dramatically accelerates the biodegradation process.

Tank Cleaning & Degassing >> PINKWATER

Pinkwater is a standard component in cleaning/degassing protocols for oil and fuel tanks of all sizes. High pressure spray application of Pinkwater solution to tank walls and internal structures rapidly reduces LEL (Lower Explosive Limits) readings, improves worker safety and sharply reduces project turnaround time. Pinkwater solution is also sprayed/mixed into sludge to knock down vapor levels and convert sludge into a pumpable aqueous solution.

Emergency Spill Response >> PINKWATER

BioSolve Pinkwater eliminates fire and explosion hazard when sprayed directly onto a fuel/oil spill. Aggressive agitation reduces volatilization and causes LEL readings to immediately decline, possibly registering “0.” Application of Pinkwater also facilitates roadway cleanup and elimination of hazardous oil sheen.

Equipment Decontamination >> PINKWATER • CLEAR

Used for cleaning/decontaminating tools and equipment at remediation sites, in refineries, on drilling rigs, following spill cleanup, and in industrial maintenance operations. Generally applied with standard pressure washing equipment, most oil and tar build-up can be washed away on contact. For more severe contamination, a hot water spray system may be required.



▶ HOW DO BIOSOLVE PRODUCTS WORK?

BioSolve products are water-based surfactant formulations engineered to aggressively “grab” hydrocarbon molecules and hold them in an aqueous solution, called an emulsion. When applied as a dilute solution and agitated, the formulation first mobilizes hydrocarbons, pulling them away from hard surfaces (e.g., metal, concrete, asphalt) or releasing them from soil, and then solubilizes hydrocarbons in an emulsion that can be removed with water. The emulsion is non-volatile and readily degraded.

This functionality enables BioSolve products to be effective across a wide range of applications where increased solubility, reduced volatility and/or accelerated biodegradation is required for removing or remediating oil and fuel contamination. Pinkwater, Activator and Clear are typically applied as a 1% to 8% solution. Agitation may be provided by a pressure washer, pump, brush, water hose, jet sprayer or mixer.

“Shell is purchasing BioSolve Pinkwater for only one reason, because it works”

Pat Agbo
Head of Oil Spill Response
Shell Oil Upstream International
Port Harcourt, Nigeria

“Your product performed exactly as advertised”

David Turner
Colonial Pipeline
Alpharetta, Georgia

“The loading dock was caked with hydraulic oil and had a grotesque odor. The Pinkwater worked brilliantly. When those guys were finished, it literally smelled clean.”

Mike Dimino
The Seneca Companies
Denver Colorado

“BioSolve Pinkwater helped mitigate a big VOC emission issue, assisting in eliminating citizen complaints and keeping the project on schedule.”

Shouvik Gangopadhyay
ECC Senior Project Manager
Nordlys Environmental, LP
Sydney Tar Ponds Project

» PROVEN EFFECTIVE » EASY TO USE » SAFE FOR WORKERS & ENVIRONMENT



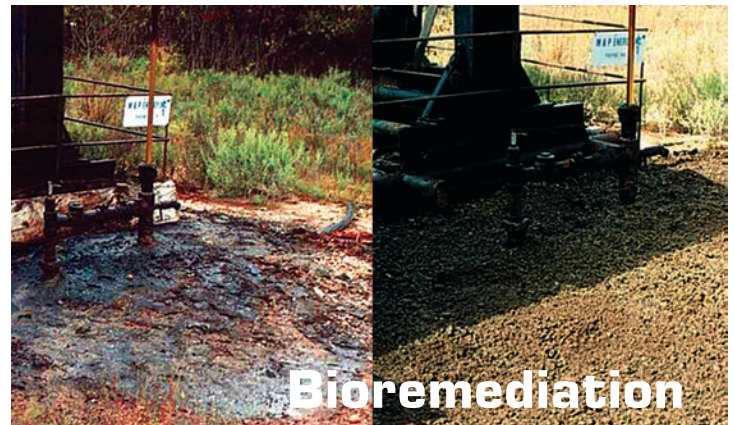
Water-based



Biodegradable

COMMON USES

- Suppression of Volatile Organic Vapors
- In-Situ/Ex-Situ Remediation of Contaminated Soil
- Bioremediation of Contaminated Soil
- Hazardous Spill Containment & Cleanup
- Solubilization of Sludge & Grease
- Oil/Fuel Storage Tank Cleaning & Degassing
- Equipment & Hard Surface Decontamination
- Paraffin Control in Oil Wells



BioSolve products contain no caustic, d-limonene or hydrocarbon solvents. Products do not contain any hazardous ingredients as defined by CERCLA, OSHA (29 CFR 1910.1200), Massachusetts Right to Know Law, and California Proposition 65. Products are rated by DOT as Class 55, non-hazardous.

BioSolve Pinkwater is on the U.S. Environmental Protection Agency's NCP Product Schedule. This listing does NOT mean that EPA approves, recommends, licenses, certifies, or authorizes the use of BioSolve Pinkwater on an oil discharge. This listing means only that data have been submitted to EPA as required by Subpart J of the National Contingency Plan, 40 CFR Section 300.915.

Pinkwater and Activator are not listed as bioremediation agents on the EPA National Contingency Plan and therefore are not to be used for bioremediation purposes on or near the shorelines of navigable waters within the US.

This material is made available for use by professionals or persons having the proper technical skills. The statements made herein are guidelines only and may require modification to accommodate site specific conditions. Nothing contained herein is a warranty or is to be taken as a license to use without proper instruction and supervision. BioSolve products should always be used in accordance with applicable federal, state and local rules and regulations

Case Studies, Information Sheets, Application Protocols & SDS are available on request

"I am very impressed with your product's ability to clean everything from invert and gel drilling mud to hydraulic oil."

Colby Simpson
Hot Flash Oil Field Services
Alberta Canada

"BioSolve clearly outperformed everything else we have tried. I'm a real believer in the product."

Lane Altenbaumer
Specialized Maintenance Services,
Carylon Corporation
Pasadena, TX

Used by 'Fire Department of New York' Hazmat Units (for emergency response) and 'New York City Transit' (for parts cleaning) for over ten years.



BioSolve.com