

# Petro-Clean

*"Our solutions prevent pollution"*

**Emergency Spill Response Solution**



*Petro Clean™ can clean-up and render hydrocarbon spills non-flammable! All ingredients in this product are biodegradable, non-pathogenic, non-flammable, non-toxic, and non-carcinogenic.*

*Alabaster Corp.  
For information call 1-800-609-2728.*

**Petro-Clean™ Product Information:** Petro Clean™ Emergency Response Solution is applied to any hydrocarbon or fuel spill. It is designed to immediately break up the spill on contact and can render the spill non-flammable, leaving no slippery residue when washed down. It's that simple! Petro Clean™ is designed to encapsulate and hold the volatiles within fuel hydrocarbons in a very tight emulsion or oil water mixture. Once Petro Clean™ is mixed with the water and fuel it traps the volatiles.

**Petro-Clean™** is a special chemical formulation designed as an emergency spill response solution. It is used by Emergency Response, Firefighting and Hazmat Groups to clean up fuel spills. It has been used successfully by some of the largest Hazmat groups in the world. Petro Clean™ is successfully used by Petrochemical Plants and Refineries, Fuel Service Stations, Emergency Response and Environmental Remediation Contractors, Airports and Fire Departments for Emergency Response, Surface Cleaning, Tank Cleaning, and Remediation projects. Petro Clean™ is Excellent for Aviation and Aerospace fuel spills. Petro Clean™ Will Break Down and Remediate Glycols!

**Petro-Clean™** applied to gasoline, diesel and other volatile hydrocarbons takes care of your safety and environmental issues immediately. Moments count when there is a fuel spill! Emergency response groups risk their lives to protect us. They deserve to have the very best products available.

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## **Petro-Clean™ Emergency Response Solution**

**Petro-Clean™ Emergency Response Application:** Typically, for emergency response or fuel spill applications we recommend the following for safety. Estimate the amount of fuel spilled in gallons. Use 10% of this fuel spill amount in Petro Clean™. Add an amount of water equal to the spill. Therefore for a 1000 gallon gasoline fuel spill, use 100 gallons of Petro Clean™ Concentrate applied and broadcast or spread over the entire surface area of the fuel spill. Add approximately 1000 gallons of water to surface wash and mix the Petro Clean™, water, and fuel very well. Please contact Alabaster Corp. for specific recommendations if needed. We care very much for our customers and want to assist in every way possible!



**Petro-Clean™ General Surface Washing Application:** Petro Clean™ is usually sold in concentrate. Concentrated Petro Clean™ can be diluted with water to as little as between 5% and 10% product before application depending upon usage. Heavier or severe surface cleaning of contamination typically requires a ratio of approximately 25% product. Typical guidelines for dilution ratios are 5% minimum product to 95% water for hard surface spill response and 10% product for more permeable surfaces. Heavier contamination, tank cleaning, or other remediation typically requires a minimum of approximately 25% product to 75% water depending upon usage. Please contact Alabaster Corp. or one of our distributors for specific recommendations if needed. We care very much for our customers and want to assist in every way possible!

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# **Petro-Clean™ Emergency Response Solution**

## **Emergency Response Mixing Ratios and Application for Petro-Clean™ Concentrate:**

**Typically Petro Clean™ Concentrate is mixed 10% product with 90% water for Emergency Response to fuel spills. 1 gallon of Petro Clean™ Concentrate + 9 gallons of water = 10 gallons of RTU (Ready to Use) product. 10 gallons of RTU = 10 gallon fuel spill.**

**Spray, broadcast and distribute the RTU Petro Clean™ evenly OVER THE ENTIRE SURFACE AREAS OF THE FUEL SPILL. Petro Clean™ may be brushed or mixed into the spill with a broom. Flush with more water!**

**10 gallon fuel spill = 1 gallon of Petro Clean™ Concentrate + 9 gallons water.**

**50 gallon fuel spill = 5 gallons of Petro Clean™ Concentrate + 45 gallons water.**

**100 gallon fuel spill = 10 gallons of Petro Clean™ Concentrate + 90 gallons of water.**

**250 gallon fuel spill = 25 gallons of Petro Clean™ Concentrate + 225 gallons of water.**

**500 gallon fuel spill = 50 gallons of Petro Clean™ Concentrate + 450 gallons of water.**

**1000 gallon fuel spill = 100 gallons of Petro Clean™ Concentrate + 900 gallons of water.**

**Petro-Clean™ Size Availability:** Petro Clean™ Concentrate is available in 5 U.S. gallon buckets, 55 U.S. gallon drums, and 250 to 300 U.S. gallon totes. Petro Clean™ is also available pre-diluted to 10% and ready to use in 2 ½ U.S. gallon containers designed for quick application! This is convenient and efficient for emergency spill use at service stations or on other applications. In the event of a spill such as those typical during fueling and re-fueling operations the service station attendant simply opens a container and distributes or pours the Petro Clean™ over the gasoline or diesel spill. Then the surface area of the spill is agitated with a broom or mop to emulsify or mix the fuel. Once this is achieved the possibility of ignition is greatly reduced and reasonable environmental measures are taken. The product can then be washed down as usual with greatly reduced environmental concerns.

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## **Petro-Clean™ Emergency Response Solution**

**Petro-Clean™ Automobile Accident Letter:** An automobile accident occurred in Broaddus, Texas in May of 1998. The driver overturned the car and the vehicle's fuel line broke. The helpless driver was pinned and trapped within the car. In moments the ground beneath the vehicle was covered in gasoline. Explosive and flammable. This is the worst nightmare scenario.

In these circumstances the first concern is always safety. The pollution becomes secondary at best. It's always a good idea to have a fire extinguisher in your trunk just in case you happen to come across a situation like this. We recommend contacting your local fire department for advice BEFORE you become involved with an accident! Ask them what to do if you are the first to arrive.

In a letter dated May 22, 1998 from the Broaddus Volunteer Fire Department: "To Whom It May Concern: There was an automobile accident on highway 147 in Broaddus, Texas involving a Suburban. The driver lost control of the vehicle and it overturned leaving the driver pinned in the car. The fuel line to the engine ruptured resulting in gas spilling on the ground beneath the car.

The potential for a fire at this accident scene was serious which put rescue personnel at extreme risk. We sprayed the spill with Petro Clean™ in an effort to prevent a catastrophic event. The results were excellent. Extraction of the driver from the car required two (2) hours and during this period we not only didn't have a fire but both rescue workers outside and inside of the vehicle reported that they could not smell gasoline fumes. (Signed), Fire Chief. Broaddus Volunteer Fire Department."

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# **Petro-Clean™ Emergency Response Solution**

## **Petro-Clean Emergency Response Solution® (Liquid Spill Control) :**

- Can Render Volatile Spills Non-Flammable.
- Greatly Reduces Fire Hazards.
- Renders Volatile Vapors Inside Tanks Harmless.
- Reduces LEL levels to zero quickly.
- Holds Emulsion Longer than Any Other Product.
- Breaks Down and Dissolves Hydrocarbons.
- Totally Cleans All Surfaces Areas.
- Extremely Effective if used with microbial or bioremediation products.
- Resolves Safety and Environmental Issues Immediately.
- Prevents Dangerous Slipping Hazards.
- Reduces worker exposure to volatile hazards.
- Reduces worker exposure to hazardous cleaning compounds.
- Environmentally Friendly, Non-Toxic, Non-Hazardous and Non-Pathogenic.
- Ships in Concentrate and Ready To Use.
- Saves Time and Money.
- Reduces or Eliminates “Cradle to Grave” Liabilities.
- Neutral pH. Non-corrosive. Does Not Contaminate.
- Compatible with Common Delivery Systems and Equipment.
- Will Not Harm Equipment.
- Listed on the U. S. EPA NCP Product Schedule as a surface-washing agent. \*

**\*PETRO-CLEAN™ IS ON THE U. S. ENVIRONMENTAL PROTECTION AGENCY'S NCP PRODUCT SCHEDULE AS A SURFACE WASHING AGENT. THIS DOES NOT MEAN THAT EPA APPROVES, RECOMMENDS, LICENSES, CERTIFIES, OR AUTHORIZES THE USE OF PETRO-CLEAN™ ON AN OIL DISCHARGE. THIS LISTING MEANS ONLY THAT DATA HAVE SUBMITTED TO EPA AS REQUIRED BY SUBPART J OF THE NATIONAL CONTINGENCY PLAN, SEC. 300.915.**

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# **Petro-Clean™ Emergency Response Solution**

## **Emergency Response Applications:**

Fire departments and emergency response groups risk their lives to protect us. They deserve to have the very best products available for their protection, as well as those involved in accidents. Petro Clean™ Emergency Response Solution (Liquid Spill Control), applied for gasoline, diesel and other volatile fuel spills, takes care of the situation safely and effectively.

## **Air Pollution Regulations and Fence Monitoring:**

Air pollution regulations require fence monitors at many facilities to monitor for hazardous air contaminants such as benzene, ethylene, propylene, 1-3 butadiene, etc. There are harsh repercussions for these uncontrolled gases. Thousands and thousands of gallons of Petro Clean™ have been used for VOC and odor control. When state officials could impose a \$9 million settlement on a Petrochemical company for violations, Petro Clean™ is an indispensable investment in protecting your company from liability.

## **Spill and Leak Clean Up:**

Spills and leaks are a fact of life! From minor time consuming chores to major hazards. Hydraulic lines, valves, fuel lines, loading sites, gasoline pump areas, and maintenance bays constantly need to be cleaned of leaks and spills. Petro Clean™ (Liquid Spill Control) addresses these pollution problems. It was developed to attack spills and leaks quickly and efficiently, turning the offending hydrocarbons and other organic wastes into harmless by-products of carbon dioxide and water. Indispensable at fueling stations!

## **Industrial Vessel, Tank and Line Cleaning:**

The petrochemical industry is searching for the most effective method of keeping their operations running. Downtime means production is offline and no revenue stream! Petro Clean™ Emergency Response Solution (Liquid Spill Control) has been used in plants and refineries for years to quickly take care of those spills and leaks that happen. Petro Clean™ significantly reduces downtimes and turnaround time on tank cleaning projects. Petro Clean™ is designed to break down and degrade a wide range of organic wastes. It will quickly penetrate contamination and begin remediation. Applied properly, Petro Clean™ will degas tanks rendering the contents non-flammable! Petro Clean™ takes just a short time to render any explosive vapors safe and cleans the tank at the same time. LEL levels in Fuel Tanks can drop to zero quickly. With Petro Clean™ there is less disruption to surrounding areas and it reduces worker exposure to volatile hazards and hazardous cleaning compounds.

## **Remediation of Pollution:**

Petro Clean™ is extremely effective when used with bioremediation products such as microbes. Applied with a water-type fire extinguisher, pump-up garden sprayer, portable adductor applicator or a fire foam adductor setup. Petro Clean™ will quickly penetrate the surface going into contamination and go to work digesting wastes. Petro Clean™ reduces odors, remediate volatile hot spots, promotes degradation of wastes, negates cradle to grave liability, and ships in concentrate ready to dilute and use for cost savings.

## **Golf Courses:**

Petro Clean™ will even keep your golf course green! Spills on greens are a golf course nightmare. Until now there was little that could be done to prevent the dead grass and long healing process associated with this type of contamination. Now there is Petro Clean™! By spraying a spill with Petro Clean™ and flushing the area with copious amounts of water, the contamination is removed, the grass doesn't die and new grass continues to grow.

# ALABASTER CORP.

Bioremediation and Environmental Site Assessment Consultants

Manufacturer of The World's Best Bioremediation Materials!

6921 Olson Pasadena, TX. 77505 1-800-609-2728 [www.alabastercorp.com](http://www.alabastercorp.com)

24 Hour Emergency Assistance

## Material Safety Data Sheet

**Petro-Clean™**

03/01/2006

Emergency Response Solution

SECTION 1 - PRODUCT NAME		COMPANY INFORMATION
1a.	Trade name – Alabaster Corp. Petro Clean™ Emergency Spill Response Solution®	ALABASTER CORPORATION 6921 OLSON PASADENA, TEXAS 77505
	EMERGENCY TELEPHONE NUMBER 1-800-609-2728 Fax: 281-487-9014	TELEPHONE NUMBER FOR INFORMATION 1-800-609-2728
		DATE PREPARED - 10/17/2005
SECTION 2		HAZARDOUS INGREDIENTS
	Non-Hazardous. The liquid Material is a Water-Based Proprietary Mixture of Emulsifiers, Surfactants, Dispersants and in Some Formulations Naturally Occurring Micro- Organisms, Which are Non-Pathogenic to Humans, Livestock, or Agriculture.	
SECTION 3		PHYSICAL DATA
	Appearance and Odor:	CLEAR, GOLDEN LIQUID WITH MEDIUM VISCOSITY AND SLIGHT DETERGENT SMELL
	Boiling Point:	212 DEGREES
	Solubility:	SOLUBLE IN ALL RATIOS
	Evaporation:	1
	Specific Gravity:	1.02
	Vapor Pressure:	SAME AS WATER
	Melting Point:	N/A
	Vapor Density:	SAME AS WATER
SECTION 4		FIRE AND EXPLOSION DATA
	Flash point:	NONE, PM
	Upper explosive limit:	
	Lower explosive limit:	
	Unusual fire & explosion hazards:	NONE KNOWN
	Extinguishing media:	NONE
	Special fire & explosion hazards:	NONE KNOWN
SECTION 5		REACTIVITY
	Stability:	STABLE
	Hazardous polymerization:	WILL NOT OCCUR
	Conditions to avoid:	NONE ESTABLISHED OR KNOWN
	Decomposition products:	OXIDES OF CARBON
	Incompatibility	STRONG ACIDS, STRONG OXIDIZERS.

SECTION 6		SPILLS AND DISPOSAL		
6a.	Land spill:	FLUSH AREA WITH WATER		
6b.	Water spill:	FLUSH AREA WITH WATER		
6c.	Waste disposal:	ANY APPROVED METHOD FOR DILUTE SURFACTANTS. PRODUCT IS HIGHLY BIODEGRADABLE.		
SECTION 7		STORAGE AND HANDLING		
	Precautions required:	AVOID SPILLS		
	Other Precautions:	NONE IN NORMAL SHIPPING, HANDLING, STORAGE AND USE.		
SECTION 8		PROTECTIVE MEASURES		
	WEAR SAFETY GLASSES OR GOGGLES DO NOT INGEST			
SECTION 9		EMERGENCY AND FIRST AID PROCEDURES		
	ROUTES OF ENTRY	INHALATION ?	SKIN ?	INGESTION ?
		X	X	X
	HEALTH HAZARD (ACUTE AND CHRONIC) EYES: SEVERE IRRITATION. SKIN: MAY PRODUCE DRYING OUT AND CHAPPING. INGESTION: MAY RESULT IN DAMAGE TO GASTROINTESTINAL TRACT.			
	Carcinogenicity:	NIP ?	IARC MONOGRAPHS	OSHA REGULATED
	NONE OF THE INGREDIENTS HAVE BEEN IDENTIFIED AS CARCINOGENIC OR AS A SUSPENDED CARCINOGEN.	NIL	NIL	NIL
	Signs And Symptoms Of Exposure	EYES: TEARING, REDNESS, REDUCED VISION. SKIN: CHAPPED CONDITION, DERMATITIS. INGESTION: DAMAGE TO MUCOUS MEMBRANE.		
	<b>Emergency and First Aid Procedures</b>			
	<b>Skin:</b> WASH WITH WATER. SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS.			
	<b>Ingestion:</b> SEEK IMMEDIATE MEDICAL ATTENTION.			
	<b>Eyes:</b> FLUSH WITH WATER USING AN EYE CUP OR FOUNTAIN FOR 15 MINUTES. SEEK MEDICAL ATTENTION IF DISCOMFORT PERSISTS.			

Petro Clean™ is on the U.S. Environmental Protection Agency's NCP Product Schedule as a "Surface Washing Agent." This listing does NOT mean that EPA approves, recommends, licenses, certifies, or authorizes the use of Petro Clean™ 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, Sec. 300.915 Due to regulations regarding this listing category Petro Clean™ is advertised as a "Surface Washing Agent" within the U.S. and not advertised as a "Bioremediation Agent." Alabaster Corp. does not imply that Petro Clean™ was designed for Bioremediation.

Alabaster Corp. does not imply that Petro Clean™ is designed to extinguish fires. Petro Clean™ is only used as a precautionary material to assist in the prevention of ignition of flammable liquids within certain circumstances and when used within certain parameters. Petro Clean™ can be used to assist in the prevention of flammable liquid ignition if used in appropriate ratios with water. Minimal usage for these applications should be 10% Petro Clean™ Concentrate mixed with an amount of water equal to the fuel spill. Therefore a 100 gallon gasoline spill would be treated with a ratio of 10 gallons of Petro Clean™ Concentrate plus 90 to 100 gallons of water. This will effectively assist in rendering the fuel non-flammable provided the materials are adequately broadcast over the entire surface area of the fuel spill and mixed within. Please contact Alabaster Corp. or your local fire department or emergency response personnel for safety advise.

To the best of our knowledge the information contained in this Material Safety Data Sheet is accurate. However, neither or any of its affiliates makes any warranty, expressed or implied, or accepts any liability in connection with this information or its use. Due to EPA NCP Product Schedule listing requirements and Petro Clean™ being listed as a Surface Washing Agent, Alabaster Corp. and our Distributors must refrain from the advertisement or implication that Petro Clean™ is any other type of product.