GREENSORB™

IT'S SO EASY TO USE... EASY TO DISPOSE... JUST POUR... AND SWEEP...

Example of liquids absorbed by GreenSorb™:

- Oils (all sorts, types and viscosity)
- Fuels (gasoline, jet fuel, diesel)
- Acids (except Hydrofluoric acid)
- Solvents
- Grease
- Medical fluids
- Toxins
- Blood & urine
- Caustic fluids
- Alcohols
- Paint
- Sewage

Saves time and money...

Non-toxic, non-flammable, non-reactive, non-corrosive, non explosive, non-oxidizing, all natural. Can be disposed of in landfills.

✓ U.S. EPA accepted

✓ HAZMAT safe

✓ OSHA accepted

✓ U.S. Dept of Agriculture accepted

✓ U.S. Dept of Energy accepted

- Absorbs 7 times more than ordinary clay absorbents according to our largest customers
- Non-leaching, more than 99% retention (TCLP tested to EPA guidelines)
- Safe to use on all liquids (except hydrofluoric acid)

GreenSorb™ creates a cleaner, safer and Eco-Friendly environment in a variety of applications in retail, municipal, public and private environments from garages, warehouses, workshops, production areas, supermarket stores, hospitals, hotels, storage rooms, schools, restaurants, airports, factories, parking lots and garages.

GREENSORB™

All Purpose Uses

Industrial

- Factories
- Machine Shops
- Oil Refineries
- Oil Fields
- Steel Mills

Environmental

- Brown Fields
- Gas Stations
- LUST
- Oil Spills
- Hazmat Spills
- Beaches
- Animal Clean-up

Recreational

- Bilge kits
- Horse Racing tracks
- Auto Racing tracks

Household

- Kitchen oil/grease spills
- Garage oil clean-up

Commercial

- Airline Maintenance
- Truck Maintenance
- Train Maintenance
- Auto Maintenance
- Auto Parts clean-up
- Auto Repair shops
- Gas Stations
- Transmission Shops
- Harbors
- Marinas
- Bus Maintenance
- Diesel Fuel Depots
- Fuel Trucks
- Hazmat Trucks
- Fire Dept. Hazmat Response Trucks
- Lake & Ocean Vessel Bilge's

Clean-Up (ANIMAL FLUIDS, SMALL SPILLS)

- Schools
- Hospitals
- Nursing Homes
- Home Health
- Hospice
- Airline Cabins
- Restaurants
- Bars/Taverns
- Bus Interiors
- Cruise Ship clean-up

Clean-Up (MAJOR SPILLS)

- Crime scene clean-up
- Accident scene clean-up
- Hazmat clean-up
- Aqueous NuclearWaste clean-up

Save 15% or more using GREENSORB™

	GREENSORB™	Crushed Clay
Material to absorb 1 gallon of oil (SAE 40)	20 lbs	140 lbs
Cost to absorb 1 gallon of oil (SAE 40)	$42.40	$26.25
Disposal cost ($0.15/lb)	Free	$21.00
Labor, storage, and handling costs ($0.02/lb)	$0.40	$2.80
Cost of material and disposal to absorb 1 gallon of oil	**$42.80**	**$50.05**
Efficiency - Gallons absorbed per 50 lb bag	2.5	0.30
Weekly use in lbs (50 gallons of oil cleaned/week)	1,000 lbs	7,000 lbs
Weekly cost for material	$2,120.00	$1,312.50
Weekly disposal cost ($0.15/lb)	Free	$1,050.00
Weekly labor, storage, and handling costs ($0.02/lb)	$20	$140.00
Total Weekly Spend	**$2,140.00**	**$2,502.50**
Annual use in lbs (50 gallons of oil cleaned/week)	50,000 lbs	350,000 lbs
Annual cost for material	$106,000.00	$65,625.00
Annual disposal cost ($0.15/lb)	Free	$52,500.00
Annual labor, storage, and handling costs ($0.02/lb)	$1,000.00	$7,000.00
Total Annual Spend	**$107,000.00**	**$125,125.00**

Annual Savings	**$18,125.00**
Annual Waste Reduction	**300,000 lbs**

Assumptions:

1) Using GreenSorb™ list price for 50 lb Bag or $2.12/lb - purchasing in volume significantly reduces this price and increases the savings
2) Weight of spilled items: Motor oil = 8 lbs/gal and Aviation Gas = 6 lbs/gal
3) Top 5 Airlines tested GreenSorb™ for 1 year and found our product to be 7 times more absorbant than crushed clay
4) GreenSorb™ test - worst case requires 2.5 lbs of GreenSorb™ to absorb 1 lb spill
5) Using crushed clay price of $9.38 for 50 lbs or $0.1875/lb
6) Disposal + storage/labor fees taken from generally available information from the top 5 U.S. Environmental Service companies - figures used in calculations are lowest (conservative) found.

GREENSORB™

Anti-Leaching Process

Comparison of Amorphous Silicate vs. GREENSORB™

Both absorbents (Amorphous Silicate and GreenSorb™) are placed on a clean sheet of white copy paper to test their ability to retain (anti-leaching action) the absorbed oil. As it can be seen amorphous Silicia releases some oil after 15 minutes. GreenSorb™ retains all of the absorbed oil.

Top left image is taken after 24 hours have lapsed and again it shows amorphous Silicate releasing the absorbed oil. GreenSorb™ completely retains it.

Amorphous Silicate leaks the absorbed oil after 15 minutes, and continues to leak after 24 hours!

GreenSorb™ does not release any absorbed oil, an indication of its superior anti-leaching property.

Comparison of Clay Absorbents vs. GREENSORB™

Both absorbents (Clay based absorbent and GreenSorb™) are placed on a clean sheet of white copy paper to test their ability to retain (anti-leaching action) the absorbed oil. As it can be seen Clay based absorbent releases some oil after 15 minutes. GreenSorb™ retains all of the absorbed oil.

Top left image is taken after 24 hours have lapsed and again it shows Clay based absorbent releasing the absorbed oil. GreenSorb™ completely retains it.

Clay Absorbent leaks the absorbed oil after 15 minutes, and continues to leak after 24 hours!

GreenSorb™ does not release any absorbed oil, an indication of its superior anti-leaching property.

GREENSORB™

Comparison Matrix Chart

	Total Encapsulation	Green	Bio-Remediation	Eliminate Disposal Process
 GREENSORB™ Proprietary Cocktail of Earth Materials	YES	YES	NO	YES
 Amorphous Alumina Silicate	NO	NO	YES	NO
 Plant by-product	YES	YES	NO	YES
 Silica Clay	NO	NO	YES	NO
 Corn Cob	NO	YES	YES	NO
 Volcanic Ash	NO	YES	YES	NO
 Sphag-Moss	NO	YES	YES	NO

GREENSORB™

Research

GreenSorb™ passed all tests and exceeded testing guidelines, standards, and requirements for safety and cleanup of spills.

Illinois Institute of Technology	Testing determined that our products were able to absorb any hydrocarbon, petro chemical, or hazardous material except hydrofluoric acid. It also determined the optimum formula and production configuration.
Northwestern University	Initial research performed to determine its uses world wide, in all climates, in all types of salt water for oil spill applications, and even secondary applications after absorption hydrocarbons such as road building instead of disposal. Various types of cooking oils were also addressed and tested.
University of Illinois	Researched applications used on animal body fluids, i.e. fats, oils, greases, urine, feces, blood, and vomit. This work also included anti-slippage qualities as well as absorption qualities to determine its safety capabilities. These experiments determined its uses in the food processing industry and restaurant applications within OSHA guidelines.
United States Dept of Agriculture	Based on the results of the above experiments at the University of Illinois, our product has USDA approval for use in meat and chicken packing plants and the food industry in general.
United States Dept of Energy	**Argonne National Laboratory** In order to achieve a Hanford National Laboratory requirement that a product must pass a 20 pound external pressure test to be considered for mixed waste. We doubled this requirement and had Argonne National Laboratory conduct a 40 pound external pressure test on our product. Argonne used three different types of materials of their own choosing and once again, our products passed with flying colors. The U.S. Department of Energy's Argonne National Laboratory is operated under the auspices of the University of Chicago. **Hanford National Laboratory** Based on the results of the testing by Argonne National Laboratory, GreenSorb™ was placed on the approved list of the Hanford Site Solid Waste Acceptance Program. This means GreenSorb™ is now qualified to absorb aqueous nuclear materials.

GREENSORB™

Material Safety Data Sheet

Manufacturer:	Sorbent Green LLC 200 S. Wacker Drive, Suite 1500 Chicago, IL 60606
Phone:	(800) 259-3577
Facsimile:	(312) 348-6293

Date Prepared: January 2010

SECTION I. MATERIAL IDENTIFICATION

Identity:	Floor Absorbent - GreenSorb™
Chemical Family:	Montmorillonite
DOT Classification:	Not Regulated

SECTION II. INGREDIENTS AND HAZARDS

Contains Crystalline Silica (As quartz)

1. No subject reporting requirements under SARA, Title III, Section 313
2. ACGIH - Respirable Dust
3. IARC has determined that there is limited evidence for the carcinogenicity of crystalline silica to humans involved in occupations such as miners, quarry workers, foundry workers, ceramic workers, granite workers, and stone cutters. However, crystalline silica in the respirable range is below the OSHA concentration limit of 0.1%. Additionally, applications data indicates that respirable quartz in this product is well below the OSHA permissible exposure limit (PEL) and the ACGIH threshold limit value (TLV): both values are listed as 0.1 mg/m (time weighted averages). Therefore this material is considered NOT HAZARDOUS.

* Contains crystalline silica, silicon alloys, and compounds (as Si), quarts, magnesite, flourides, iron, and nonreportable traces of maganese and/or maganese alloys and compounds (as Mn)

SECTION III. PHYSICAL AND CHEMICAL CHARACTERISTICS

Boiling Point:	N/A	**Specific Gravity (H_20=1):**	See Bulk Density
Vapor Pressure (mm Hg)	N/A	**Evaporation Rate:**	N/A
Vapor Density (Air=1)	N/A	**Melting Point:**	N/A
Water Solubility:	Negligible	**Bulk Density:**	38-39 lbs/cft
Appearance & Odor:	Reddish Brown, flat, musty odor.		

SECTION IV. FIRE AND EXPLOSION DATA

Flammability:	Not Combustible

GREENSORB™

Material Safety Data Sheet

SECTION V. REACTIVITY DATA

Stability: Stable

Incompatibility: Under uncommonly dry conditions temperature build up may occur with certain solvents and vegetable oils. Do not use with hydrofluoric acid.

Hazardous Decomposition or By-Product: None

Hazardous Polymerization: Will not occur

SECTION VI. HEALTH HAZARD INFORMATION

Inhalation: Based on limited evidence, crystalline silica is classified by IARC in Group 2A, "Probably carcinogenic to humans". Crystalline silica, including quartz, is present in many mineral products.

Signs and Symptoms of Exposure: N/A

Medical Conditions Generally Aggravated by Exposure: N/A

Emergency and First Aid Procedures: No special procedures required

SECTION VII. PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be take in case material is released or spilled: Vacuum or sweep up.

Waste Disposal Method: Dispose of in accordance with state and local laws.

Precautions to be taken in handling and storage: N/A

Other protective clothing or equipment: N/A

Work/Hygienic Practices: Normal good work and safety practices

SECTION VIII. CONTROL MEASURES

Respiratory Protection: General NIOSH approved dust respirator in working with large quantities.

Ventilation: Normal exhaust

Protective Gloves: N/A

Other protective clothing or equipment: N/A

Work/Hygienic Practices: Normal good work and safety practices

GREENSORB™

Tested Safe

Tests for Toxicity Characteristic Leaching Procedure (TCLP)

The US Environmental Protection Agency (EPA) establishes specific & definite criteria to determine if solid waste should be considered hazardous. Waste or spills that are classified as hazardous are generally harmful to human life and the environment. The rules and regulations concerning the storage, shipment, treatment and legal disposal of hazardous waste apply...and compliance is often very expensive.

	U.S. EPA TCLP Test Standards	Results		
Compound	(mg/L)	Test 1	Test 2	Test 3
O-Cresol	200.02		<0.20	<0.20
m,p - Cresol	200.02		<0.20	<0.20
1,4 Dichlorobenzene	7.5	<0.005	<0.10	<0.10
2,4 Dinitrotoluene	0.133		<0.10	<0.10
Hexachlorobenzene	0.133		<0.10	<0.10
Hexachlorobutadiene	0.5		<0.10	<0.10
Hexachloroethane	3.0		<0.10	<0.10
Nitrobenzene	2.0		<0.10	<0.10
Pentachlorophenol	100.0		<0.50	<0.50
Pyridine	5.03		<0.10	<0.10
2,4,5-Trichlorophenol	400.0		<0.10	<0.10
2,4,6-Trichlorophenol	2.0		<0.10	<0.10
Benzene	0.5	<0.005	<0.10	<0.10
Carbon tetrachloride	0.5	<0.005	<0.10	<0.10
Chloroform	6.0	<0.005	<0.10	<0.10
1,2-Dichloroethane	0.5	<0.005	<0.10	<0.10
1,1-Dichloroethane	0.7	<0.005	<0.10	<0.10
Methyl ethyl ketone	200.0	<0.010	<1.00	<1.00
Tetrachlorethane	0.7	<0.005	<0.10	<0.10
Trichlorethane	0.5	<0.005	<0.10	<0.10
Vinyl chloride	0.2	<0.005	<0.10	<0.10
Arsenic	5.0		<1.00	<1.00
Barium	100.0		<1.00	<1.00
Cadmium	1.0		<0.021	<0.020
Chromium	5.0		<0.020	<0.020
Lead	5.0		<0.100	<0.100
Mercury	0.2		<0.0010	<0.0010
Selenium	1.0		<0.400	<0.400
Silver	5.0		<0.0200	<0.0200

Laboratory	Location	Test Number	Date Conducted	Sponsored by
Enviro-Test/Perry Labs	Chicago, IL	Test 1	August 9, 1996	Aviation Customer
Inchcape Testing Services	Dallas, TX	Test 2 & 3	October 25, 1996	Petro-Chemical Customer

The three separate field tests featured were performed by independent labs. GreenSorb™ was used in removing petroleum based liquid comprised of water, gas, diesel fuel, and transmission fluid. The conclusion is that GreenSorb™ safely absorbed the spill, and the spill was completely absorbed into the GreenSorb™... now dry. The GreenSorb™ with absorbed waste was found to be non-hazardous material in accordance with the Resource Conservation and Recovery Act (RCRA). This meant that it could be disposed of as a regular, non-hazardous waste product at a significant cost savings!

UNIVERSAL LABORATORIES

20 Research Drive Hampton, Va 23666
1-800-695-2162
(757) 865-0860
Fax: (757) 865-8014
E-mail: info@universallaboratories.net

Date: Wednesday, October 13, 2010

Pages: Page 1 of 3

To:

Myriad Greevn Energy

Fax#: (806) 498-3604

Email:

From:

Subject: Results for Project Product Testing designated as UL Order Id 1009423 and received on Wednesday, September 22, 2010

UNIVERSAL LABORATORIES

20 Research Drive Hampton, Va 23666

TELEPHONE: (757) 865-0880
TOLL-FREE: (800) 666-2102
FAX: (757) 865-8014

REPORT OF ANALYSIS

Order ID: 1009423

(REPORT DATE)
13-Oct-10

TO: **Myriad Greeyn Energy**
2342 Croix Drive
Virginia Beach Va 23451
ATTN: [redacted]

Project ID: Product Testing
Project # N/A
Site: Paint Waste From [redacted]
Matrix: Liquid
Comments for Order:

UL Sample Number: **1009423-001**
Sample ID: Paint Waste Fro[redacted]
Grab Date/Time: 9/22/2010
Composite Start: N/A
Composite Stop: N/A
Collected By: Client

Parameter	Method	Test Result	Units	UL Report Limit	Analysis Date/Time	Analyst
Absorption Ratio	Manual	**2.55:1** Greensorb ; Sample			9/22/2010 13:32:00	SS
Pyridine (TCLP)	SW-846 1311/ 8270 D	<	mg/L	0.02	10/1/2010 04:35:00	BD
Hexachloroethane (TCLP)	SW-846 1311/ 8270 D	<	mg/L	0.02	10/1/2010 04:35:00	BD
Total Cresols (TCLP)	SW-846 1311/ 8270 D	<	mg/L	0.02	10/1/2010 04:35:00	BD
Nitrobenzene (TCLP)	SW-846 1311/ 8270 D	<	mg/L	0.02	10/1/2010 04:35:00	BD
Hexachlorobutadiene (TCLP)	SW-846 1311/ 8270 D	<	mg/L	0.02	10/1/2010 04:35:00	BD
2,4,6-Trichlorophenol (TCLP)	SW-846 1311/ 8270 D	<	mg/L	0.02	10/1/2010 04:35:00	BD
2,4,5-Trichlorophenol (TCLP)	SW-846 1311/ 8270 D	<	mg/L	0.02	10/1/2010 04:35:00	BD
2,4-Dinitrotoluene (TCLP)	SW-846 1311/ 8270 D	<	mg/L	0.02	10/1/2010 04:35:00	BD
Hexachlorobenzene (TCLP)	SW-846 1311/ 8270 D	<	mg/L	0.02	10/1/2010 04:35:00	BD
Pentachlorophenol (TCLP)	SW-846 1311/ 8270 D	<	mg/L	0.02	10/1/2010 04:35:00	BD
Arsenic (TCLP)	SW-846 1311/6010 C	<	mg/L	0.005	9/24/2010 09:47:00	LS
Barium (TCLP)	SW-846 1311/6010 C	**0.593**	mg/L	0.005	9/24/2010 09:47:00	LS
Cadmium (TCLP)	SW-846 1311/6010 C	<	mg/L	0.005	9/24/2010 09:47:00	LS
Chromium (TCLP)	SW-846 1311/6010 C	<	mg/L	0.005	9/24/2010 09:47:00	LS
Lead (TCLP)	SW-846 1311/6010 C	**0.009**	mg/L	0.005	9/24/2010 09:47:00	LS
Selenium (TCLP)	SW-846 1311/6010 C	<	mg/L	0.005	9/24/2010 09:47:00	LS
Silver (TCLP)	SW-846 1311/6010 C	<	mg/L	0.005	9/28/2010 09:46:00	LS

VDEH Lab# 00030 (Hampton) North Carolina Drinking Water Lab # 51706 EPA LAB CODE VA00912 1009423-001
VDEH Lab# 00065 (Fredricksburg) North Carolina Wastewater/Groundwater Lab # 543 VDEQ Lab #000003

Mercury (TCLP)	SW-846 1311/7470	0.0091	mg/L	0.0002	9/24/2010 10:10:00	EK
Lindane (TCLP)	SW-846 1311/8081 B	<	mg/L	0.005	10/5/2010 16:23:00	BD
Heptachlor (TCLP)	SW-846 1311/8081 B	<	mg/L	0.005	10/5/2010 16:23:00	BD
Heptachlor Epoxide (TCLP)	SW-846 1311/8081 B	<	mg/L	0.005	10/5/2010 16:23:00	BD
Endrin (TCLP)	SW-846 1311/8081 B	<	mg/L	0.005	10/5/2010 16:23:00	BD
Methoxychlor (TCLP)	SW-846 1311/8081 B	<	mg/L	0.02	10/5/2010 16:23:00	BD
Chlordane (TCLP)	SW-846 1311/8081 B	<	mg/L	0.02	10/5/2010 16:23:00	BD
Toxaphene (TCLP)	SW-846 1311/8081 B	<	mg/L	0.05	10/5/2010 16:23:00	BD
Vinyl Chloride (TCLP)	SW-846 1311/8260 B	<	mg/L	0.2	10/11/2010 20:56:00	ES
1,1-Dichloroethylene (TCLP)	SW-846 1311/8260 B	<	mg/L	0.2	10/11/2010 20:56:00	ES
Chloroform (TCLP)	SW-846 1311/8260 B	<	mg/L	0.2	10/11/2010 20:56:00	ES
Carbon Tetrachloride (TCLP)	SW-846 1311/8260 B	<	mg/L	0.2	10/11/2010 20:56:00	ES
1,2-Dichloroethane (TCLP)	SW-846 1311/8260 B	<	mg/L	0.2	10/11/2010 20:56:00	ES
Methyl ethyl ketone (TCLP)	SW-846 1311/8260 B	0.7	mg/L	0.2	10/11/2010 20:56:00	ES
Benzene (TCLP)	SW-846 1311/8260 B	<	mg/L	0.2	10/11/2010 20:56:00	ES
Trichloroethylene (TCLP)	SW-846 1311/8260 B	<	mg/L	0.2	10/11/2010 20:56:00	ES
Tetrachloroethylene (TCLP)	SW-846 1311/8260 B	<	mg/L	0.2	10/11/2010 20:56:00	ES
Chlorobenzene (TCLP)	SW-846 1311/8260 B	<	mg/L	0.2	10/11/2010 20:56:00	ES
1,4-Dichlorobenzene (TCLP)	SW-846 1311/8260 B	<	mg/L	0.2	10/11/2010 20:56:00	ES

Comments for Sample I 1009423-001

No comments

Respectfully Submitted,

VDEH Lab# 00030 (Hampton) North Carolina Drinking Water Lab # 51706 EPA LAB CODE VA00912 1009423-001

VDEH Lab# 00065 (Fredricksburg) North Carolina Wastewater/Groundwater Lab # 543 VDEQ Lab #000003

ABSORP

CHAIN-OF-CUSTODY

UNIVERSAL LABORATORIES

20 Research Drive
Hampton, VA 23666

Phone: (757) 865-0880
Fax: (757) 865-8014

Company: Myriad Greeyn
Street/Box: 2342 Croix Drive
City/State: Va. Bch, VA 23451
Phone: 800-659-9881 Fax: 806-498-3604
Contact:
Job No. / P.O. No.

Analysis Required

Sample ID	Date/Time	Sampled By	Matrix	Sample Type	Field Notes	Preservative None	Preservative Absorption Rate	Preservative Full TCLP	Preservative	Preservative	Preservative	Preservative	Preservative	Preservative	Lab Number
Paint Waste from	9/20/10	C	L	C (G)		2	*								[illegible]
				C G											
				C G											
				C G											
				C G											
				C G											
				C G											
				C G											
				C G											
				C G											
				C G											
				C G											

Comments:

Cooler Temp at LI: N/A Pres √: N/A

Possible Hazards:

Disposal: Lab ☑ Client ☐ Charge ☐

Due Date:

Express Service

Express Service Approval

Relinquished By	Signature	Company	Date/Time
Received By	Signature	Company Myriad Green	9/20/10 1210
Relinquished By	Signature	Company	Date/Time
Received By	Signature	Company	Date/Time
Relinquished By	Signature	Company	Date/Time
Received By	Signature	Company	Date/Time

Work Order No.

Delivery Order

Trans☐ P.U.☐ Grab☐ Comp☐

Shipping/Delivery Charges

Composite Start / Composite Stop

*sample sent for TCLP after mixed with GreenSorb. ss 9/21/10

AVAILABLE

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