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TECHNICAL DATA SHEET

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PRP® - Family of Petroleum Sorbent and Remediation Products

INTRODUCTION

PRP® is a powder of formed, hollow wax microcapsules. The microcapsules average 50 microns in size and appear as a fine powder. PRP® has a natural affinity for hydrocarbons and will immediately combine to encapsulate petroleum molecules. PRP® is also highly hydrophobic and cannot be mixed or dissolved in water even after absorbing spills. PRP® is composed of a proprietary blend of natural ingredients. One of the principle ingredients is beeswax which contains nitrogen, phosphorus and potassium, nutrients for microbes which utilize the blend of PRP® and absorbed petroleum.

TYPICAL APPLICATIONS

PRP® Powder	Bulk powder hand cast/distributed or through a dry or hydro-sprayer	<ul style="list-style-type: none"> • Spills on water • Spills on land
WellBoom®	PRP® in a weighted sock for vertical deployment in a groundwater monitoring wells	<ul style="list-style-type: none"> • Subsurface remediation (UST Leaks) • Groundwater test well management
BioBoom®	PRP® in 5 foot, 10 foot or custom length floating booms	<ul style="list-style-type: none"> • Spill containment/diversion • Absorption and remediation • Marinas, Coastal, Swamps, Lakes, Rivers, parking lots, water runoff areas
BioSok®	PRP® in 3"x10" and 2"x6" floating booms for deployment in boat bilges.	<ul style="list-style-type: none"> • Boat bilge management and remediation
OilBuster® or BDTM®	OilBuster® deployed by hand or spreader BDTM® is in conjunction with walkable track mat	<ul style="list-style-type: none"> • Concrete fracking and well pads • Rail beds/yards • Shop and depot floors • Chemical treatment plants

PROPERTIES AND ADVANTAGES

- Non-toxic to human and wildlife
- Oleophilic – absorbs and encapsulates hydrocarbons on contact on surface or in groundwater

- Hydrophobic – floats and cannot dissolve in water even after sorbing
- Changes sticky hydrocarbons into a non-sticky mass that cannot attach to wildlife, plants or structures
- PRP® is listed on the EPA NCP Schedule as a sorbent, but also facilitates bioremediation by increasing surface area and reducing interfacial tension between naturally occurring microbes and hydrocarbons
- PRP® is accepted by the US Coast Guard as a hydrocarbon sorbent for ecologically sensitive areas
- Not compatible with chemical detergents and surfactants

PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White to light brown colored powder (Average size ~50 microns)
Acid Value (USP 401)	17-24mg KOH/g
Ester Value (USP 401)	72-79mg KOH/g
Melting Point	62° - 65°C/62° - 65°F
Recommended Storage Temp	Below 35°C/95°F

PRODUCT STEWARDSHIP

PRP® is formulated and manufactured using organic, food-grade materials. The product is produced in the United States using a proprietary process that was developed by NASA and related research entities. The production facilities are compliant with all required standards for safety, cleanliness, sustainability and accessibility.