

Marine Systems

PRISTINE SEA A BIOSORBENT TECHNOLOGY

WHAT IS BIOSORBENT TECHNOLOGY ?

- COMBINATION OF ABSORBENTS, MICROBES & NUTRIENTS
- ABSORBENT CAPTURES AND CONTROLS OIL SPILL
- MICROBES DEGRADE HYDROCARBONS TO:
 - CARBON DIOXIDE
 - WATER
 - FATTY ACIDS
- NUTRIENTS SUPPLY RATE-LIMITING NITROGEN & PHOSPHORUS

WHAT IS THE ADVANTAGE OF THIS TECHNOLOGY ?

- USED IN ALL WEATHER & LIGHT CONDITIONS
- USED IN HEAVY ICE CONDITIONS
- SCALE TO SPILL SIZE
- DISPERSAL BY AIRCRAFT AND SHIPS
- REQUIRES FEW PERSONNEL

PERFORMANCE DESIGN

PRISTINE SEA PRODUCTS

- SEMI-SOLID “CAKES” ARE FORMED
 - CHEMICALLY BOND WITH OIL
 - HYDROPHOBIC & HAS AFFINITY FOR ORGANIC LIQUIDS
- “CAKES” CONSIST OF OIL, OXYGEN, MICROBES & NUTRIENTS
- “CAKES” DENSITY LESS THAN WATER
- “CAKES” KEEP MICROBES IN CONTACT WITH OIL, NUTRIENTS, & OXYGEN SATURATED WATER
- “CAKES” PROVIDE TIME RELEASE METHOD FOR NUTRIENTS
- “CAKES” WILL NOT LEACH CAPTURED OIL

FEATURES:

- NO CONTAMINATION OF WATER COLUMN OR SEDIMENT

- WORKS IN SALINE, BRACKISH & FRESH WATER
- APPLICATION BY AIRCRAFT & SURFACE VESSELS

REMOVAL PROCESS:

- BIODEGRADATION, MECHANICAL AND OTHER METHODS