
DECOMPOSITION OF OIL SPILLS IN WATER

Presented by ST Global Resources Ltd.

THE SOLUTION

WHAT IS IT?

- The new solution is biological product produced by a combination of natural herbs.
- The Solution treats water and sand from the sea floor organic pollution.
- The Solution immediately reacts on the organic elements (including hydrocarbons) on the surface of the water.
- The Solution stretches the organic material (on the surface) dramatically increasing the ratio of evaporation and at the same time reducing the concentration of organic material.
- In the case of polluted sediment the mechanism includes primarily the temporary dissolving of organic material in a liquid form, and subsequently the evaporation as explained above.

THE SOLUTION

HOW IT WORKS

- Works for oil at sea surface and at the water column, as well as old oil that may be stuck in sediment.
- Dismantles the hydrocarbon chains.
- Oil loses its viscosity.
- Symmetric distribution.
- Fast acting formula - the oil will not be able to reach the shoreline.
- Breaks down the oil and its components on the water surface.

THE SOLUTION

APPLICATION AREAS

- Harbors and Marinas
- Coastlines and Beaches
- Floating Cages in Farming Operations

THE SOLUTION

SOLVES ISSUES WITH...

- BOD – Biological Oxygen Demand
- COD – Chemical Oxygen Demand
- TPH – Total Petroleum Hydrocarbons
- FOG – Fats, Oils and Grease

SOLVES ISSUES OF...

- Reduction of UV disinfection
- Algae and bacteria blooms
- Accumulation of organic and inorganic material
- Oil sedimentation
- Water toxicity, toxic gases, toxic organisms, condensate water
- Bad odor

THE SOLUTION

EFFICIENCY

The efficiency indicated that solution is very efficient for treatment of crude oil with efficiency equal to 88.36% which much greater than 60% recommended by EPA (Environmental Protection Agency).

BIODEGRADATION

The biodegradation test indicated that the maximum degradation rate of the mixture oil with solution was 90.48%/96 hours.

METHODS

The determination of the efficiency index of oil spill dispersants according to Appendix A to WSL Report RL 448 (OP), revised February 2017. This specification relates to oil spill dispersants for the application at sea or beaches and to the procedures adopted in the UK before any dispersant can be used.