

# TECHNICAL DATA SHEET ECO44-2

## Oil Slick Dispersant

**ECO-44** is a water soluble, highly rinsable combination of mild natural detergents and inorganic builders that work extremely well in fresh or brine water on a wide range of petroleum products. It is also effective in helping to break up the semi-solid water-in-oil emulsions often found after a large spill.

Properly applied, **ECO-44** will help make a spill dispersible by wave action or by mechanical agitation of the area with the boat wakes. **ECO-44** greatly increases the natural biological decomposition of the oil by separating the oil into small droplets that allow for speedy attack by bacteria and natural physical degradation.

The amount of **ECO-44** is dependent upon the viscosity and the type of oil in the slick. Normal experience and extensive laboratory tests have shown that one part **ECO-44** will treat 15 to 20 parts of oil. Common usage of **ECO-44** (in addition to oil spill dispersant) are as a post spill cleaner and to help protect the shoreline by helping to prevent the oil from adhering to beaches, rocks, plant growth and buildings.

**ECO-44** may be used as provided or diluted with water. Normal dosage is 10-30 gallons per acre. **ECO-44** should be applied with equipment that will spray the product in fine droplets over the oil. This will allow a rapid penetration of the product into the oil to begin the dispersion.

A small spill can often be handled by spraying **ECO-44** from small hand held sprayers. Apply a fine mist of **ECO-44** over the surface of the spill and then agitate with boat propellers or high pressure water jets. Large areas are treated from work boats by using spray booms mounted in the front of the boat so the **ECO-44** will penetrate as the rear wake action churns the water. Undiluted **ECO-44** can be sprayed from a helicopter or airplane. Normal application is 15 -30 gallons per acre.

The importance of spraying **ECO-44** so that a fine mist completely covers the oil slick can not be *overemphasized*. Pouring **ECO-44** over oil spots will not allow for complete dispersion of the slick. After treatment, mechanical action by boats or wave action will begin the breakdown of the slick into small droplets.

Treatment of shorelines with a 3% to 5% solution of **ECO-44** will help protect beaches, rocks, plants and buildings by not letting the oil stick to their surfaces. Post slick clean-up may be started by using a 3% to 5% solution to help clean the oily surfaces.