In 2010, Corexit Environmental Solutions LLC ("CES") was established to address the unique environmental challenges faced by the oil and gas industry. Recognized globally, our COREXIT™ brand is a proven oil spill dispersant and shoreline cleaner that has demonstrated significant results. In addition to managing COREXIT technology, CES is focused on expanding and developing new technologies to support the oil and gas industry’s commitment to sustainability.

**HOW DO DISPERSANTS WORK?**

Oil on the surface of water will naturally break up and be dispersed by wave motion. This natural process is slow and often incomplete. An oil slick can travel long distances and impact sensitive shorelines during this unpredictable process. In addition, if the oil does not naturally disperse, the formation of water-in-oil emulsions (mousse) and tar balls will occur.

Oil spill dispersants contain surface active molecules known as surfactants. Each surfactant molecule has a water-soluble and oil-soluble end. When the dispersant is applied it diffuses into the oil, reducing the interfacial tension between the oil and water and breaking the oil into tiny droplets that disperse throughout the upper regions of the water column. Dispersing the oil accelerates the ability of naturally occurring microbes to metabolize and degrade the oil. COREXIT chemical dispersants are designed to aid this natural process. Dispersing the oil also minimizes the possibility of surface drift and reduces sea surface exposure to birds, turtles and sea mammals in the spill vicinity. In addition, the possibility of adherence of the oil to marine animals, shorelines and boats is reduced.
ENSURING AN EFFECTIVE RESPONSE

Response to an oil spill at any stage has one important primary goal - to minimize the impact of the spill. Complete recovery of oil is rarely possible due to weather conditions and/or the size of the spill. The challenge then becomes one of preventing oil from reaching the shoreline where damage to natural and commercial resources can be considerable. Prompt application of COREXIT oil spill dispersants is one proven method of minimizing the total environmental impact of a spill both onshore and offshore.

The effective use of chemical dispersants requires thorough contingency planning and training. This includes the availability of all necessary dispersant deployment equipment.

A DIVERSIFIED PRODUCT LINE

COREXIT oil spill dispersants are listed on the Environmental Protection Agency National Contingency Plan Product Schedule. The result of 20+ years of research, these dispersants are formulated to maximize response effectiveness to various oil types and spill conditions while decreasing the impact the application has on the environment. The building blocks for these products are used in many other consumer products including cosmetics, pharmaceuticals and household cleaners.

COREXIT EC9527A, COREXIT EC9500A and COREXIT EC9500B dispersants are bio-degradable formulations with unique “self-mix” property and oleophilic solvent delivery system designed to enhance penetration of surfactants making them well suited for dispersion of heavy oils including weathered, waxy and emulsified oils. COREXIT dispersants have offered maximum versatility in dispersing oil slicks on seawater using well-proven surfactants which are effective in a variety of real world conditions on a wide range of oils.

CES also offers a technology designed specifically for shoreline protection and cleaning. It removes a wide range of crude oil and petroleum products from contaminated shoreline surfaces, including certain vegetation. For freshwater or seawater shoreline oil cleaning, we recommend COREXIT EC9580A, the biodegradable surface washing agent for oil spills on rocky shores, bay shores, lakeshores, marshes, rivers and inlets.

CES is committed to continuing collaboration with industry and government to improve its oil spill dispersant technology.

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