



## COREXIT<sup>®</sup> 9500 (EC9500A) Oil Spill Dispersant

Product Bulletin PB-EC9500A

### Product Benefits

- A high performance, biodegradable, low toxicity oil spill dispersant
- Effective on a wide range of oils, including the heavier, more weathered oils and emulsified oils
- Contains a new improved oleophilic solvent delivery system

### Principal Uses

COREXIT 9500 is used to disperse oil spilled on the sea, thereby minimizing its environmental impact.

### General Description

COREXIT 9500 is a high-performance oil spill dispersant that is effective on a wide range of oils, including the heavier, more weathered oils and emulsified oils. COREXIT 9500 contains the same well-proven, biodegradable and low toxicity surfactants present in COREXIT 9527, with a new improved oleophilic solvent delivery system. The unique oleophilic nature of COREXIT 9500 enhances the penetration of the surfactants, which is particularly important for dispersion of heavy oils. Based on laboratory tests, COREXIT 9500 is effective on all spreading oils. As with all dispersants, timely application ensures the highest degree of success. Early treatment with COREXIT 9500, even at reduced treat rates, can also counter the "mousse" forming tendencies of the spilled

oil. Thus, with the enhanced penetration capability and emulsion fighting properties, the "window of opportunity" to successfully treat the spill is increased with COREXIT 9500. For a general description of the chemical and physical properties, refer to the Material Safety Data Sheet.

### Feeding and Dosage

#### Aerial Spraying

Aircraft provide the most rapid method of applying dispersants to an oil spill and a variety of aircraft can be used for spraying. For aerial spraying, COREXIT 9500 is applied undiluted. A typical treatment rate is two to ten U.S. gallons per acre or a DOR (dispersant to oil ratio) of 1:50 to 1:10. However, this can vary depending on the type of oil, degree of weathering, temperature and thickness of the oil slick. Typical application altitudes of 30 to 50 feet have been used, although higher altitudes may be effective under certain conditions. Actual effective altitudes will depend on the application equipment, weather and aircraft. Careful selection of spray nozzles is critical to achieve desired dose levels, since droplet size must be controlled. Many nozzles used for agricultural spraying are of low capacity and produce too fine a spray. A quarter-inch open pipe may be all that is necessary if the aircraft travels at 120 mph (104 knots) or more, since the air shear at these speeds will be sufficient to break the dispersant into the proper sized droplets.

## Boat Spraying

COREXIT 9500 may also be applied by workboats equipped with spray booms mounted ahead of the bow wake or as far forward as possible. The preferred and most effective method of application from a workboat is to use a low-volume, low-pressure pump so the chemical can be applied undiluted. Spray systems that apply dispersant neat are preferable. However, if this is not practical, water-dilution systems that provide a 5-10% dispersant concentration should be used. COREXIT 9500 is formulated to be diluted with seawater if necessary during application, since the product is active at very low dosage (2-10 USGPA, 19-94 L/ha). A seawater pump allows for easy chemical addition by education into the water stream. The mixture of dispersant and seawater is then discharged through booms having several nozzles. COREXIT 9500 should be applied as droplets, not fogged or atomized. Natural wave or boat wake action usually provides adequate mixing energy to disperse the oil. Recent tests have indicated that a fire monitor modified with a screen cap for droplet size control may also be useful for applying COREXIT 9500. Due to the increased volume output and the greater reach of the fire monitor, significantly more area can be covered in a shorter period of time.

## System Calibration

Refer to the Nalco TECHNIFAX® TX-116 charts for calibration information.

## Material Compatibility

For application equipment, COREXIT 9500 is compatible with stainless steel, carbon steel, aluminum, H-D polyethylene, polypropylene, PTFE, natural and synthetic rubbers, Viton®, Teflon® and Kalrez®. Compatibility with plastic materials varies.

## Handling and Storage

This material can be stored in high-density polyethylene, stainless steel, or double epoxy phenolic-coated carbon steel containers. The containers should always be capped when not in use to prevent contamination and evaporation. Carbon steel and aluminum are not recommended for long-term storage. Read the label and Material Safety Data Sheet for complete handling information before using or storing this product.

## Shipping

COREXIT 9500 is shipped in 55-gallon non-returnable high-density polyethylene drums from manufacturing and distribution centers worldwide. Bulk shipments are available upon request. Contact your Nalco representative for net container weights.

## Remarks

### Regulatory Submission

COREXIT 9500 is on the U.S. Environmental Protection Agency's (EPA) National Contingency Plan (NCP) Product Schedule. This listing does not mean that EPA approves, recommends, licenses, certifies or authorizes the use of COREXIT 9500 on an oil discharge. This listing means only that data have been submitted to EPA as required by Subpart J of the National Contingency Plan 300.915. COREXIT 9500 has been tested and accepted by Environment Canada, and approved by U.K. Ministry of Agriculture, Fisheries and Food as a Type 2 and 3 dispersant. COREXIT 9500 has also been approved in Norway, France, Singapore and Indonesia. Prior to use, check with local authorities.

For additional information or to place orders, please contact your local Nalco representative or our Division Headquarters in Sugar Land, Texas, U.S.A. at 1-281-263-7000.

For Medical and Transportation Emergencies involving Nalco products, call (24-hour response): 1-800-424-9300.



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