



Sample Operating Guidelines #29

Use of F-500 for Environmental Emergency Surface Washing

To: All Personnel

Objective: To Establish a Manner for the Use of F-500 for Surface Washing

Responsibility: As Directed by Department Policy

F-500 Encapsulator Agent is listed on the US EPA's NCP Product Schedule Subpart J as a surface washing agent. A Surface washing agent is any product that removes oil from solid surfaces, such as beaches and rocks, through a detergency mechanism.

This affords incident commanders an option for treating hydrocarbon spills on shorelines, roadways, marinas, pilings, shipboard, etc.

Procedure:

When responding to reports of fuel spills, whether on land or in a body of water, upon arrival it is necessary to size-up the incident, determine the conditions, and establish command. Once an evaluation is made that the fuel is approachable and can be mitigated with a water-based agent, F-500 is suitable for use as a vapor control/mitigation agent.

Application From a 2½ Gallon Extinguisher

Mix 10 ounces of F-500 into 2.5 gallons of water to achieve a 3% application rate for small fuel spills and small spill fires up to 1 gallon of gasoline, oil, or E-85. Using the HCT spray mist wand, treat the spill or extinguish the spill fire by sweeping over the spill and/or spill fire quickly cooling and encapsulating the hydrocarbon portion of the spill.

Shoreline Applications

Solid Surfaces- Rocks, pylons, boat bottoms, etc.

1. Use F-500 premixed at 1/4 - 3%
2. Apply F-500 Solution through a high pressure spray machine or hand line.
3. If available preheat F-500 Solution to enhance and increase effectiveness of F-500 solution to encapsulate hydrocarbons.
4. If oil buildup is a tar like substance spray 100% F-500 directly to surface and come behind with high a high pressure spray system to clean area.

Note: This information is submitted as a suggested guide to establish a Departmental SOG when using F-500 as part of your emergency response procedures, and should in no way be considered a replacement for existing, established protocol. Hazard Control Technologies, Inc. is responsible for the quality of the product F-500 only, and will not assume responsibility for any other problem areas encountered when the product is being used.

Porous Surfaces- Sand, beach, marsh, etc.

1. Use F-500 premixed at 3%
2. Apply F-500 solution through high pressure spray machine or hand lines using a 20 to 30 degree spray pattern to coat the surface.
3. Allow solution to soak into the surface and reapply if oil is still visible.

F-500 is a highly concentrated product and is typically diluted with water for use. Ratios of dilution vary depending on site specific conditions, but normally run at 6%, 3%, or 1%.

Heavy, mousse, or weathered oil require a 3% to 6% solution application. Lighter or refined products, warrant an application at 2% to 3%. Sheens can be treated with a .5 to 1% solution.

F-500 will quickly encapsulate and solubilize weathered crude; therefore it can be applied any time after a spill occurs. Environmental impact considerations should be fully considered prior taking action.

Always follow established Environmental Procedures as dictated by your Local, State, and Federal Regulations, as well as established Department SOGs.

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