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OSEI Corporation Deck Cleaner Brochure

and Procedure

There are two basic means to handle spills on ship/vessel decks.

I. Educator/Induction system from the onboard fire fighting system, or from a ships on board water system with a venture, induction, eductor nozzle.

A. Educator/Induction system from the onboard fire fighting system, or from a ships on board water system with a venture, induction, eductor nozzle can be used by merely adding the product tube that would be introduced to the foam container, directly into the OSE II container, (55 gallon drum/208 liter drum, or one of the 2.5 gallon container/ 9.45 liter containers) set the educator/induction to 2 %; which produces the 50 to 1 mixing ratio.

B. The person applying the OSE II and water mixture would apply to a particular area/point of the spill until the fuel/oil/hydrocarbons started to flow, then move to the next area/point of the spill until it started to flow, and repeat this application until all of the fuel/oil/hydrocarbons started flowing, which means the molecular structure of the fuel/oil/hydrocarbons has been broken down.

C. Once the molecular structure of the fuel/oil/hydrocarbons has been broken down several things have occurred, the adhesion properties of the fuel/oil/hydrocarbons has been eliminated, the toxicity to the environment has been reduced or eliminated, the fuel/oil/hydrocarbons, are caused to lift out of the pours of the concrete/asphalt/steel surface and float on top of these structures, making it easy to wash the effluent.

D. **Importantly, the flammability** of the fuel/oil/hydrocarbons will have been eliminated as well, so wherever the effluent may flow to or be washed to there will be no flammability problem.

E. While the first actions of OSE II are taking place the multiple enzymes in OSE II will attach themselves readily to the fuel/oil/hydrocarbons, and act as catalyst to speed up the reactions to break down the molecular structure of the fuel/oil/hydrocarbons, as well.







F. WASH DOWN:

There are several means to handle the effluent when you wash down the fuel/oil/hydrocarbons that have had OSE II applied to them. a. First you can collect and store in an empty drum or plastic/steel container, where if you add aeration in a few days the fuel/oil/hydrocarbons will be fully converted to CO2 and water, and you can pour the effluent overboard, or pour into the bilge. OSE II would also help reduce the contaminants in the Bilge, for small or large vessels as well, see link http://www.osei.us/photoalbums/bilge-water-cleanup

b. The effluent wash down can be directly washed into the bilge collection areas.

c. The effluent wash down can be directly washed overboard, since there will be no sheen and the toxicity of the fuel/oil/hydrocarbons have been detoxified and will have no environmental impact.



II. Pump up or electric or gas sprayers





A. Pump up hand sprayer , an electric hand sprayer, or a gasoline spray system, with a tank to mix OSE II and water can be carried on board a vessel where once there is a spill you would add 3 ounces of OSE II for each gallon of water the sprayer would contain, fill the rest of the spray container with water and spray, this mixture produces the 50 to 1 mixing ratio. The water tank would be filled with a pre determined number of gallons of water and you would add 3 ounces of OSE II per gallon of water added to the water tank, and this would feed the gasoline sprayer.

B. The person applying the OSE II and water mixture would apply to a particular area/point of the spill until the fuel/oil/hydrocarbons started to flow, then move to the next area/point of the spill until it started to flow, and repeat this application until all of the fuel/oil/hydrocarbons started flowing, which means the molecular structure of the fuel/oil/hydrocarbons has been broken down. If the sprayer runs out of the OSE II and water mixture, you may have to refill with OSE II and water multiple times depending on the size of the spill.

C. Once the molecular structure of the fuel/oil/hydrocarbons has been broken down several things have occurred, the adhesion properties of the fuel/oil/hydrocarbons has been eliminated, the toxicity to the environment has been reduced or eliminated, the fuel/oil/hydrocarbons, are caused to lift out of the pours of the concrete/asphalt/steel surface and float on top of these structures, making it easy to wash the effluent.

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b. The effluent wash down can be directly washed into the bilge collection areas.

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Summary:

OSE II can be educted/induction onto a spill, or applied by hand sprayer. Allowed to wait 3 to 5 minutes, then wash down to bilge collection area or washed overboard, where the effluent would produce no sheen or visible trace of oil, and it would have no impact to the environment, or sucked up and placed in a drum, plastic tank..

Steven Pedigo

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