

ADP-7 SURFACE WASHING AGENT PRODUCT DATA SHEET

PETRO-GREEN ADP-7 SURFACE WASHING AGENT

ADP-7 is a 100% biodegradable, water soluble, nonionic-anionic surfactant designed for wetting a wide variety of soils and washing a wide variety of crude oils. ADP-7 moves oil from the surface to the topmost layers of soil where it can quickly biodegrade. The appearance and smell of the spill site is immediately brought back to normal with no scraping or replacing of soil, and no worry about where to dump the bad soil. There are no oily rainbows as well.

ADP-7 has been tested under U.S. Environmental Protection Agency rules and is listed on the E.P.A.'s National Oil Pollution Contingency Plan Product Schedule. For treating oil adjacent to regulated water, the use of ADP-7 must first be authorized by the On-Scene Coordinator.

ADP-7 should be diluted in fresh water for application by hose or sprayer, not applied full strength, because it is the water that does the work. Examples are listed below with typical dilution ratios. Use these as a guide. If the spray onto the oil spill foams a lot, then the concentration of ADP-7 can be lowered. For low gravity or high paraffin crudes, the concentration can be increased, however, water heated to 150-160°F may increase efficiency without increasing concentration. For a weathered or asphaltic crude, heated water may be necessary. In the field, a hot-oiler truck with a cleaned out tank can be used to heat and pump the water. Roustabouts can easily handle the hot water hoses by wrapping the nozzle with sorbent pads.

OIL SPILLS ON LAND

TO INCREASE OIL RECOVERY:

If the oil is in a dry creek, or on a slope leading to a temporary recovery dam, it can be emulsified so that it will flow like water. Mix 1 gallon ADP-7 to 1 barrel fresh water. Estimate the number of barrels of oil to be recovered and use 50% as much water/ADP-7 solution. Apply onto oil forming a milky emulsion which will flow to the dam. At the recovery pool add a de-emulsifier to float black oil to the surface for vacuuming. There is nothing in ADP-7 that will harm refinery catalysts so the vacuumed oil can be fully recovered.

TO DISPERSE OIL INTO SOIL:

After all loose oil has been vacuumed, estimate the number of barrels of oil to be soaked into the top soil. Mix 1 gallon ADP-7 in 1 barrel of fresh water for each barrel of oil to be dispersed. An alternate estimate is to use about 100 barrels of solution per acre (43,560 sq. ft.). Spray from a hose connected to a water truck or hot-oiler truck with about 75 PSI nozzle pressure. Most truck side pumps are in this range. Spray onto oil to emulsify (forms milky solution). The emulsion will soak into soil. On silty soil or with weathered crudes, it may be necessary to till the spill site before dispersant application to assure complete removal of the oil from the surface. If heated water is used, do not use water hotter than 160°F as this will kill native bacteria needed for bio remediation.

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OIL SPILLS NEAR WATER:

Booming and skimming should still be the first emergency response of any oil spill contingency plan. After oil recovery is complete, ADP-7 can be used to clean the banks of the lake or river as well as the brush that has been fouled by oil. The E.P.A. On-Scene Coordinator has the authority in conjunction with state regulations to permit the use of ADP-7 near waters under the E.P.A. jurisdiction.

Mix 1 gallon of ADP-7 to 1 barrel fresh water as a starting dilution. If the amount of oil in the brush is heavy, or the accessibility of the bank is difficult, use a more diluted solution and depend more on the spraying agitation of the solution. In some cases a boat mounted pump with a mixing valve is ideal for accessibility. It may be necessary to mix the syrupy ADP-7 with 2 or 3 parts water so it can easily be drawn into the mixing valve.

For floating rainbow oil in confined waters, a fine spray of 1 gallon ADP-7 per 5 barrels of water will safely disperse the oil over a very large area.

SALT WATER SPILLS ON LAND

When salt water spills on land all plants can be killed within minutes. There is no preventative action or emergency responses that can prevent this. In some cases the salt water will leach through the root zone and permanent soil sterilization will not occur. However, often the salt water stays in contact with the top soil and permanent damage takes place. For old dead areas, Petro-Green has a reclamation procedure which is rapid but quite involved (please call for details). For the fresh spill, however, you can dramatically decrease the chances of permanent damage. After flushing with fresh water and recovering run off for disposal, follow by flushing the area with a solution of 2 gallons ADP-7 per 5 barrels of water. As a general rule apply 100 barrels of the solution per acre and follow with 100 barrels of fresh water within 1 to 2 days.

MISCELLANEOUS

ADP-7 is packed in 55 gallon steel drums and is shipped from stock in Dallas, Texas. If you plan to stock the material for contingency, it is a good idea to store a few hundred feet of 1½" or 2" hose with a coupling for your local water truck, and a nozzle down to ½" to ⅝".

ADP-7 can be added directly to the water in the tank truck. Do not add the ADP-7 first since excess foaming will take place when the water enters. The ADP-7 can either be sucked in by vacuum or poured in a top hatch. The ADP-7 will mix easily with the water, so circulate the load for about 2 minutes before it is ready to be sprayed.

ADP-7 is *not toxic to humans*. Excessive quantities of ADP-7 and oil into lakes or streams, however, will kill fish. Obtain approval from E.P.A., U.S. Coast Guard, or State on-scene spill response coordinator prior to using near regulated waterways.