

OIL SPILL CONTROL

Gladiator

OIL SPILL
COLLECTOR

- Unique self-spreading liquid
- Concentrates oil for easy collection
- Non-toxic and environmentally safe

**CLEANER
ENVIRONMENT**



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What is Gladiator?

Gladiator is a unique silicone-based liquid for the control of oil spills in marine environments. Gladiator spreads across the water surface, pushing the oil away and consolidating it on the surface. Its spreading action is very strong: it will keep spreading across a large water body until it forms a thin film. By applying Gladiator at appropriate locations around a spill, the oil can be concentrated into booms or skimmers for easy collection. In many cases, the recovered oil can be recycled to help offset the costs of the cleanup.

Why is Gladiator so Special?

The silicone in Gladiator accounts for its superior spreading properties. Silicones have a very low surface tension – lower than almost any other polymer. In the Gladiator formulation, this translates into a stronger spreading pressure than other products, and hence a more effective means of concentrating oil. Another feature of silicones is that their viscosity remains stable over a wide temperature range. In icy waters, for example, the handling and spreading characteristics of Gladiator are not affected significantly.

Some Typical Applications?

Gladiator can be applied in any situation where an oil slick has spread across the water surface. It is most effective when applied on opposite sides of a slick so as to compress the oil into a narrow band for collection by a skimmer or other suitable equipment. For oil spills in fairly confined spaces such as a dock location, we recommend that Gladiator is trickled along the edge of a slick in such a way as to direct the oil away from obstructions. It is easier to collect the concentrated oil from open water than from around piers, bollards and other obstructions. Although Gladiator is most effective in calm waters, its spreading action is sufficiently strong to be beneficial in rougher waters. In these conditions, it should be applied in a location where the wind and tidal pressures will help it to spread towards the slick. A second application should be made at the other side of the slick. Whilst this may not actually push the oil against the wind and/or tidal forces, it will assist in forming a barrier against further spreading. Once the film is formed, wind or wave action will not break it up.

Can it be Applied at the Shoreline?

If applied from a shoreline, Gladiator is an effective 'last line of defence' against an advancing oil slick. In addition, wave action will coat pebbles and rocks with a thin film of Gladiator, helping to prevent any oil from adhering.

Application Rates and Equipment?

The appropriate application rate depends on many factors including the thickness of the slick, the nature of the oil, the surface conditions of the water and weather conditions. Our trials have indicated that a rate of about 10 ml of Gladiator per lineal metre of oil spill (1 fluid ounce per 10 lineal feet) can be used as a general guide. On larger spills, this equates to about 10 litres per lineal kilometre, or 4 gallons per lineal mile. Gladiator can simply be poured on to the water – spray equipment is not required.

What about the Impact on the Environment?

Gladiator forms an almost invisible film on the surface. Being very thin, the film does not affect the activities of birds or other aquatic life. The silicone film degrades into silicates - the most common mineral in the earth's crust –after a few days. Gladiator is non-toxic. In fact, a similar product called Aquatain (for control of evaporation from water storages) is certified by NSF International for application to drinking water in the United States.

Is Gladiator Registered as an Oil Spill Product?

We have applied for Gladiator to be listed on the Product Schedule of the US EPA's National Oil And Hazardous Substances Pollution Contingency Plan (NCP). When listed, Gladiator will be the only surface collecting agent on the Product Schedule.



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