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## **USE OIL SPILL EATER II (OSE II ) or ORC**

### **USING ORC ONLY**

ORC is an oxygen-releasing compound. ORC can only be effective in an area where there has been a hazardous material spill and (1) oxygen is the only limiting factor and (2) there is no means of injecting oxygen through a hose from a compressor or some type of commercial blower.

If Bioremediation precursors, nutrients, or bacteria are not present, then adding ORC will have limited benefits. Without Bioremediation precursors (which are present in OIL SPILL EATER II) (OSE II), then Bioremediation will be extremely slow even with the addition of ORC.

In any system where BOD or COD or utrified water might be a problem, ORC might be a benefit. However, it seems simple to set up a gasoline compressor or electric blower and blow air through a hose into the oxygen deficient zone.

### **USING OIL SPILL EATER II**

OIL SPILL EATER II (OSE II) Concentrate is a liquid nutrient with enzymes that is mixed with water and applied to hydrocarbon spills or organic contaminants. OSE II grows indigenous bacteria using its nutrient material while enzymes form binding sites on the hydrocarbon walls. After eating OSE II Nutrients, the Bacteria then attack the hydrocarbon or contaminant; turn it into Carbon dioxide and water.

The limiting factors in remediating spills are the precursors (Bio-surfactants and Enzymes) in the correct mix of nutrients and constituents to carry out cellular metabolism, as well as cellular reproduction.

If these constituents are not present, then oxygen addition (ORC) will have little effect on a spilled material. An oxygen deficient situation is easily addressed; however knowing how much of the correct and complete constituents needed for Bioremediation is a much more difficult task to accomplish.

OSE II makes remediation a simple solution to a complex situation.

**SUMMARY**

Once again, the only time ORC can be a benefit is where oxygen is the limiting factor and there are nutrients available and air cannot be injected with some type of blower system.

The more efficient process is to apply OIL SPILL EATER II.

A handwritten signature in black ink, appearing to read "S. Tom Pedigo". The signature is fluid and cursive.

By: Steven R. Pedigo  
Chairman/OSEI, Corp.

SRP/AJL