



T&T Eco

OSE II

OIL SPILL EATER II

the natural solution!

OSE II is the Only Approved (Ecologically safe) Bioremediation agent for use on Land, Water & Sea by the UK's Marine Management Organisation (MMO)



<https://www.gov.uk/government/publications/approved-oil-spill-treatment-products>



PRODUCT INFORMATION

Oil Spill Eater II (OSE II), is the world's most environmentally safe and cost effective bioremediation product, for the mitigation of hazardous waste, spills and contamination.

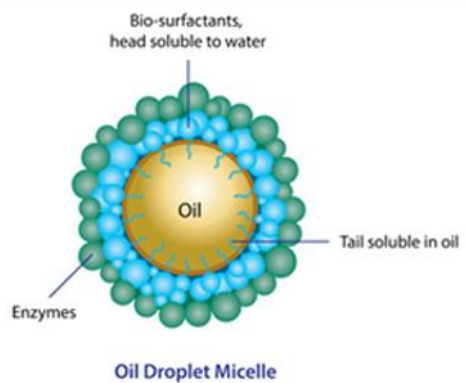
OSE II is an environmentally safe clean-up method because it uses nature's own bioremediation process to effectively eliminate hazardous materials.

OSE II is not a bacteria (bug), fertilizer or dispersant product. It is a biological enzyme that converts the waste into a natural food source for the native bacteria found in the environment. The end result is only CO2 and water.



Hydrocarbon Bioremediation Product

OSE II will reduce clean-up costs and permanently eliminate the hazardous waste problem with no secondary clean-up required.



So what exactly is a natural Bioremediation Process?

When OSE II is applied to an oil spill, the oil's molecular structure begins to breakdown immediately and in a short time, visually disappears.

Biosurfactants help by connecting with the oil molecules and breaking down the covalent and ionic bonds, creating small micelles (oil droplets).

The process rapidly reduces the toxicity of the oil, making it more bioavailable to indigenous bacteria that then utilize the oil as a food source.

OSE II contains nutrients which attract indigenous bacteria that rapidly colonise/grow in numbers, speeding up spill remediation.

OSE II does NOT contain any foreign bacteria or non indigenous organisms.

The bacteria rapidly consume the oil with the help of OSE II nutrients and enzymes until all is converted to CO2 and water, permanently removing the oil from the environment.



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Contamination clean-up managed and delivered with complete environmental benefits for WATER TREATMENT FACILITIES

A one step cleaning procedure; usually there is no need for additional cleaning processes, such as having to collect and dispose of effluent.

Oil spills are dealt with and visibly disappear quickly.

OSE II is a fire retardant: Mixture flammability is greatly reduced or completely diminished.

OSE II can treat underground spills.

OSE II can treat all types of hydrocarbon spills from jet fuel, lubricants and heavy fuel oils, including crude oil.

...Final result is simply: CO2 and water



Application Methods

OSE II can be applied by surface spray apparatus, such as a small hand held tank, back pack, large mixing tanks with mechanical pumping devices, vessels with booms for spraying wide paths or spray devices on aeroplanes or helicopters. OSE II can be applied by educator systems from vessels, fire trucks etc.

Usual mixing ratio is 1:50 (1 ltr of OSE II mixed with 50 ltr of non chlorinated water).

Denser concentrations can be used for older or heavier spills to accelerate process.

Process cleaning time varies from a few hours to several weeks, depending on the type of hydrocarbon and spill.

Typical Applications

- Oil Spills on Oceans, Lakes etc
- Asphalt and Concrete Spills
- Fuel Tank Cleaning
- Underground Spills
- Ship Deck Cleaning
- Ballast Water Tank Cleaning
- Bilge Tank Cleaning
- Oil Water Separator Cleaning
- Airport Tarmac and Apron Cleaning
- WWTP Oil Water Separator Tank Cleaning
- Clean Up of All Types of Oil Leakage



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Physical Properties

Physical State	Liquid, the same density as water
Colour	Amber to Brown
Odour	Some smell of ferment
Density	Same as water
Vapour Density	Same as water
Dropping Point	Same as water
Ph	7.1

Shelf Life

OSE II has a recommended shelf life of 5 years. After 5 years at optimum storage temperature, there is an approximate 10% decrease per year in product capability



MAIN APPROVALS & LISTING

US Environmental Protection Agency, National Contingency Plan (EPA NCP List)

Australia Oil Spill Control Agent (OSCA registered)

UK Marine Management Organisation Approval (MMO Approval)



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