

UNICLEAN OSD ENVIRO R2USE

INTRODUCTION

UNICLEAN OSD ENVIRO R2USE is the environmental solution for oil pollution in the sea. It is a dilution of Type II & III approved product (*UNICLEAN OIL DISPERSANT*). This efficient dispersant can be used for a wide range of oils, converting the oil slick into small droplets which are rapidly distributed within the sea due to natural water movement. Special compounds in UNICLEAN OSD ENVIRO R2USE inhibit coalescence. Dispersion into the sea enhances the biodegradation of the oil.

DIRECTIONS FOR USE

UNICLEAN OSD ENVIRO R2USE should be used undiluted. It can be applied by spraying from the surface vessel. *UNICLEAN OSD ENVIRO R2USE* will disperse in practice, a ratio of about 2 to 5 times its own volume.

APPLICATIONS

UNICLEAN OSD ENVIRO R2USE should be sprayed onto the oil slick using spraying equipment connected to booms with spray nozzles, via a pump connected to the storage tank. When using the product, additional agitation is required using breakers boards, boat propellers, bow wave...etc to help disperse the oil. When dealing with small spills from the vessel, use a hand spray pump or an eductor through the fire hoses. This will mix the dispersant with the seawater and agitating the sea surface will help break up the oil slick as well as spraying the dispersant.

This technique has also proved valuable when dealing with small spills in harbors between ship's side, wharves and pilings... etc or any area which has difficult access.

BEACH AND SHORE APPLICATION

UNICLEAN OSD ENVIRO R2USE may be used for beach and shore cleaning as it complies to the higher toxicologically standards required for this area of cleaning. Before using *UNICLEAN OSD ENVIRO R2USE* on beaches, the local environmental, social, economic and political organizations consideration should be taken into account. Where application is justified, the most appropriate method to use will depend on the type of shoreline, type of oil and the volume. When a beach has oily liquid from a spill it is advisable to remove as much of it as possible mechanically before using a dispersant.

The amount of dispersant used depends on the type of oil. In case of light to medium crude oils and light to medium fuel oils, *UNICLEAN OSD ENVIRO R2USE* will be sufficient (for heavier oils or mousse like residues, we advise to use *UNICLEAN OIL DISPERSANT*). Apply the dispersant over the oil working from the low water mark upwards before a rising tide. In areas where it is calm or with small tidal movements use hoses to wash down the shore line to remove oil from rocks and beach.

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UNICLEAN OSD ENVIRO R2USE

Ready-for-use oil spill dispersant

- Fast acting dispersion of oils
- More environmental friendly, extremely low marine toxicity; totally biodegradable; contains no petrochemical solvents
- Non flammable
- A dilution of Uniclean Oil Spill dispersant (Super-dispersant 25 which is approved by the Ministry of Agriculture, Fisheries and Food UK, EPA listed and tested by Maff / FEPA for efficiency as Type II & III product according to LR 448 specifications)

PRODUCT CHARACTERISTICS

Appearance:	clear amber or yellow liquid
Corrosive action:	no attack on common metals
pH 10% solution:	6,8
Specific gravity:	1,0 (20°C)
Flash point:	none
IMO Class:	not regulated
UN Number:	not regulated
ADR:	not regulated

UNiclean

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TECHNICAL INFORMATION

The effectiveness of the oil dispersant will vary depending on the state of the oil, i.e. its pour point and viscosity at sea temperature. The time of weathering, evaporation of the lighter fractions of the oil and the formation of oil-in-water emulsions which will all quickly increase viscosity and pour point and increase resistance to dispersion.

It is therefore essential to use *UNICLEAN OSD ENVIRO R2USE* at an early as possible stage during the clean up operation, if it is to be effective. We recommend users of oil dispersants to refer to the IMO publication IMO/UNEP Guidelines on Oil Spill Dispersants Application and Environmental Consideration - this book gives more information on the application of dispersants. We would also wish to point out that the use of dispersants in many countries is governed by the local authorities or Coast Guards and permission to use the product must be sought.

NATURE OF SPECIAL RISKS AND SAFETY ADVICE

In accordance with the latest EEC Council directives this product is not subjected to any recommendation. Voluntary UNIMARINE recommendation:

- S2 : Keep out of reach of children
- S24/25 : Avoid contact with skin and eyes
- S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
- S46 : In case of swallowing or if you feel unwell, seek medical advice immediately
(show the label if possible)

Due to its solvents/surfactants content, the product has a strong de-fatting action on the skin. Although corrosiveness on mild steel is very low, it is nevertheless recommended that storage tanks be coated with an inert coating. Gloves, goggles and impervious overalls should be worn when handling.