



Oil Spill Dispersant ECO HD Type II & III Concentrated

we care for
cleanships...
clean seas environment



Introduction

International Shipping and Port Authorities worldwide have recommended that a quantity of dispersant should be carried on board all vessels, being readily available in case of oil spills. Ports, power stations and other installations where oil pollution is possible, should store dispersants as part of their emergency response plan.

EFLOCHEM OSD ECO HD is the most environmentally friendly and efficient solution for oil pollution in the sea.

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 EFLOCHEM OSD ECO HD inhibit coalescence. Dispersion into the sea enhances the biodegradation of the oil.

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 faster and efficient EFLOCHEM OSD ECO HD 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.

Features

- Fast dispersion of oils
- Very efficient and economical
- Flexible, easy miscible with water
- EPA listed and tested by MAFF/ FEPA for efficiency as Type II & III product according to LR 448 specifications
- More environmentally friendly/ extremely low marine toxicity/ totally biodegradable/ contains no petrochemical solvents
- User friendly and non flammable
- Product efficiency 83-89 %



This book gives more information on the application of dispersants.

We would also wish to point out the use of dispersants in many countries is governed by the local authorities or coast guard and permission to use the product must be sought.

Due to its solvents/surfactants content, the product has a strong defatting 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. All sets are available with Corodex Eflochem Marine Network.

Approvals

- IMO (The Marine Management Organisation UK (Ex-Warren Spring Lab - UK)
- CEDRE approved product by French Ministry
- ROPME Approval-Offshore use Approval
- Rocky shore Test Approval
- As per IMO guidelines



Directions for use

EFLOCHEM OSD ECO HD can be used neat or diluted with seawater. It can be applied by spraying from the air or from surface vessels. EFLOCHEM OSD ECO HD will disperse in practice, a ratio of about 1:20 and 1:25 times its own volume.

Used diluted it will disperse in practice a ratio of about 2 to 5 times its own volume. The product is also available already diluted as EFLOCHEM OSD ECO HD R2U.

Mixing Instructions

Mix one part of EFLOCHEM OSD ECO HD with twenty to twenty five parts of fresh water or seawater. Mix well before use. Product should only be mixed immediately prior to use.

Applications

EFLOCHEM OSD ECO HD 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 a diluted product, the sea surface should be agitated using breakers boards, boat propellers, bow wave etc... to help disperse the oil.

When dealing with small spills from the vessel, use an EFLOCHEM HAND SPRAY-PUMP or an EFLOCHEM EDUCTOR with neat product through the fire hoses or monitor.

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 which has difficult access.

Beach and Shore Application

EFLOCHEM OSD ECO HD may be used for beach and shore cleaning as it complies to the higher toxicologically standards required. Before using EFLOCHEM OSD ECO HD on beaches, the local environmental, social, economic and political organizations situation 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 oil 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 is dependent on the type of oil. In case of light to medium crude oils and light to medium fuel oils, a diluted solution will probably be sufficient. For heavier oils or mousse-like residues the product should be used neat.

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.

Aerial Application

Spraying from aircraft is a technique used by some countries for rapid response to treating oil spills over a large area. Product should be used neat for this application.

The aircraft would need to be fitted with the appropriate pumps, nozzles and spray booms, giving the optimum spray droplet size in a range of 0,4 to 1,0 mm in diameter.





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