

PRODUCT: ORB135SC

Super Concentrate For Fresh Water Dilution



Advanced Chemistry



Drilling Muds and Oil



FOR THE CLEANING AND REMEDIATION OF HYDROCARBONS

Product Certification

CEFAS certification not required – product primarily designed for use with fresh water in onshore and offshore applications.

Product Description

ORB135SC is a super concentrate microemulsion (forming) surfactant system. **ORB135SC** is soluble for dilution with fresh water and provides a highly efficient alternative to solvent, emulsion forming surfactant or caustic / acid based cleaners.

Hydrocarbon removal of:

- Base oil and pipe dope
- Oil and synthetic based drilling muds
- Other hydrocarbons
- Filter cake from contaminated tubulars, formations and equipment.

Applications:

- Mud pit cleaning, Railcar cleaning, Ship(Vessel) cleaning, Road Tanker cleaning
- Wellbore cleanup, Filter cake removal
- Refinery waste slops, Waste pit remediation

Advantages:

- Reduced water consumption and slops generation by over 50% compared to other methods. Near zero with proper system.
- A highly efficient water based cleaner to replace organic solvents
- Easier on personnel when compared to alkaline cleanings.
- No tight wemulsion slop wastes produced.
- Non flammable + Non toxic to humans.
- Readily Biodegradable.
- Non corrosive .

Physical & Chemical Properties

Appearance	Clear Liquid
Colour	Colourless Yellow
Solubility	Completely soluble in fresh water
Odour	Mild characteristic
Specific gravity	0.95 – 1.5 @ 20oC
pH Value (Concentrate)	4.5 – 7.5
Flash point	80°C
Flammability	Non flammable
Use concentration	2 – 20% by weight

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MicroEmulsion Surfactant

Removal of Hydrocarbons, Drilling Mud Slops, Remediation



Part Number Reference Table

ORB135SC-EU1000	EU 1000L IBCs
ORB135SC-EU200	EU 200L Drums
ORB135SC-EU25	EU 25L Kegs
ORB135SC-US320	US 320 Gallon Tote Tanks
ORB135SC-US55	US 55 Gallon Drums
ORB135SC-US30	US 30 Gallon Drums
ORB135SC-US5	US 5 Gallon Pail



Directions for Product Use General Instructions

It is recommended that **ORB135SC** should be used at concentrations of 10 - 20% by weight in fresh water but can be used undiluted when and where the application may require it. Typical "Automated Cleaning Systems" can use **ORB135SC** at 10% by volume in multi-use re-circulatory systems and in many cases use this solution several times before recharging the system.

This unique microemulsion cleaning product is temperature insensitive and can be used at temperatures in the range of 5o°C to over 100°C. The cleaning efficiency of the product typically increases on increasing the temperature. Do not overheat or flash-off.

Following use, the removed solids will settle out under gravity or via centrifugation. The aqueous fluids can then be induced to rapidly phase separate (by adding calcium chloride or sodium chloride) in order to release the organic components from aqueous solution. Without the use of filtration equipment the oil-in-water levels may be reduced to below 100ppm. With the use of suitable filtration equipment these oil levels may be reduced still further to below 40ppm. This provides waste minimisation at source thereby significantly reducing transport, treatment and waste disposal costs.



Slops remediation with ORB135SC is automatic

Shelf Life

ORB135SC is stable for a period of up to 6-9 months provided that it is stored and handled as specified in the product MSDS. This product is unstable in aqueous environments and will hydrolyse in water.



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