

PRODUCT: ORB116SC

Super Concentrate For Salt Water Dilution
with Fresh Water as alternative when used in cleaning process



Advanced Chemistry



Oil & Gas Operations



REMOVAL AND REMEDIATION OF HYDROCARBONS

Product Certifications

CEFAS **GOLD** rated product for mud pit cleaning and drill cuttings cleaning use in UK North Sea. CEFAS **SILVER** rated product for downhole use in UK North Sea. Carries no flag for substitution warnings and no taint warnings. **RED** rated for use in Norwegian sector of the North Sea. CEFAS **Non CHARM product (Category C)** for use in enhanced slurrification applications.

Product Description

ORB116SC is a super concentrate microemulsion forming surfactant system. The product has been specifically designed to microemulsify (solubilise) base oils into water and vice versa. The product is soluble for dilution with **sea water** and **fresh water** as an alternative when used in cleaning process. For only fresh water dilution see our product **ORB135SC**

Hydrocarbon Removal, Treatment & Slurrification of:

- Drill cuttings (using sea water as the diluent)
- Mud slops (using sea water as the best diluent and fresh water as an alternative)
- Hydrocarbon wastes

ORB116SC provides a highly efficient product for use in the enhanced slurrification process of (oil contaminated) materials eg. waste drill mud cuttings and mud slops.

Cuttings waste generated as a result of drilling operations is usually slurrified using sea water. However, large volumes are required in order to generate a slurry of suitable pumpable characteristics. This is especially the case with shale cuttings and solids comprising significant quantities of clay based materials. These geologies readily hydrate and swell absorbing large volumes of water before becoming suitably fluidised - sometimes requiring up to 6 times their own weight in sea water. Solids also settle out under gravity during transport forming cakes in tanks which is difficult to remove during interfiled transfer.

ORB116SC can be used as a single step solids treatment system to facilitate the process in which drill cuttings and barite particulate solids are fluidised for pumping, transport and possible re-injection. This multifunctional product can be simply applied to the waste stream (active at concentrations of 1%wt and above) and can reduce the viscosity of the waste stream by over 90% increasing mobility and pumpability. **ORB116SC** does not require the addition of large volumes of sea water and/or base oil and therefore minimises the volume of the waste stream for transport by up to 80%. **ORB116SC** suspends the solids preventing barite sag and therefore facilitates the cleaning out of lines and holding tanks following waste storage. **ORB116SC** also prevents the hydration of shale I clay based geologies and optimises lubricity for re-injection purposes.

ORB116SC_2015.08.07

Physical & Chemical Properties

Appearance	Clear Liquid
Colour	Colourless / Pink
Solubility	Completely soluble in salt/sea water
Odour	Mild characteristic
Specific gravity	0.95 - 1.1 @ 20°C
pH Value (Concentrate)	5-8
Flash point	77°C
Flammability	Non flammable
Use concentration	1 - 10% by weight



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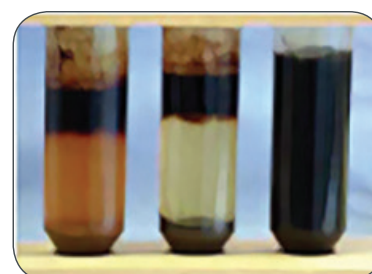
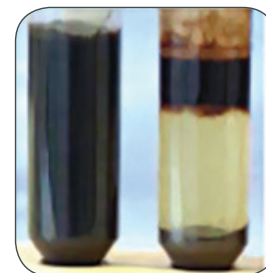
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MicroEmulsion Surfactant Chemistries

...for the removal and remediation of Hydrocarbons



Part Number Reference Table	
ORB116SC-EU1000	EU 1000L IBCs
ORB116SC-EU200	EU 200L Drums
ORB116SC-EU25	EU 25L Kegs
ORB116SC-US320	US 320 Gallon Tote Tanks
ORB116SC-US55	US 55 Gallon Drums
ORB116SC-US30	US 30 Gallon Drums
ORB116SC-US5	US 5 Gallon Pail



Slops remediation with ORB116SC is automatic

Directions for Product Use General Instructions

For enhanced applications it is recommended that **ORB116SC** should be added to the waste stream at concentrations of 2 - 5% by weight product. The product can be applied in conjunction with sea water and/or base oil if required. This unique microemulsion forming chemical product is generally temperature insensitive and can be used at temperatures in the range of 5°C to over 100°C.

This unique microemulsion forming chemical cleaning product is generally temperature insensitive and can be used at temperatures in the range of 5°C to over 100°C. The cleaning efficiency of the product increases on increasing the temperature.

Following use of the product to clean wells and mud pits the removed solids will settle out under gravity or via centrifugation. The aqueous fluids can be induced to rapidly phase separate (*by adding calcium chloride or sodium chloride*) in order to release the organic components. 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. Optionally, and if necessary, the solids recovered may be rinsed with sea water to produce cleaned solids with an oil content of below 1% weight oil on dry solids. This product therefore provides the ultimate in waste minimisation capabilities providing for zero discharge at source thereby significantly reducing transport and disposal costs.

Shelf Life

ORB116SC 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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