

PRODUCT: ORB102C

Advanced MicroEmulsion Technology



Advanced Chemistry



Platform Supply Vessels



ADVANCED MICROEMULSION TECHNOLOGY

Product Certification

CEFAS Gold rated product for use in UK North Sea. Carries no flag for substitution warnings and no taint warnings. **YELLOW** rated for use in Norwegian sector of the North Sea.

Product Description

ORB102C is a concentrated microemulsion (*forming*) surfactant system. **ORB102C** is soluble for dilution with sea water (fresh water as an alternative) and provides a highly efficient alternative to solvent, emulsion forming surfactant or caustic/acid based cleaners.

ORB102C has been designed specifically for the removal of base oil, pipe dope, oil based drilling muds, and filter cake from contaminated pipes, mud pits, formations and equipment. **ORB102C** can also be used for the remediation of emulsion blocking and near wellbore damage as well as remediation of cleaning slops.

ORB102C is:

- "One Stop" mud pit / well clean up system
- A highly efficient water based cleaner to replace organic solvents
- A highly efficient pH neutral cleaner to replace caustic / acid products
- A highly efficient alternative to replace emulsion forming surfactant systems
- No emulsion 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 sea water
Odour	Orange / Citrus
Specific gravity	0.95 – 1.0 @ 20°C
pH Value (Concentrate)	7 - 10
Flash point	40 – 45°C
Flammability	Non flammable
Recommended	15%

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Part Number Reference Table

ORB102C-EU1000	EU 1000L IBCs
ORB102C-EU200	EU 200L Drums
ORB102C-EU25	EU 25L Kegs
ORB102C-US320	US 320 Gallon Tote Tanks
ORB102C-US55	US 55 Gallon Drums
ORB102C-US30	US 30 Gallon Drums
ORB102C-US5	US 5 Gallon Pail

Directions for Product Use

It is recommended that **ORB102C** should be used at concentrations of 10 - 20%wt in sea water or fresh water but can be used at higher concentrations up to neat product as supplied.

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

After using **ORB102C**, 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 ORB102C is automatic

Handling and Packaging

ORB102C is safe for handling and no special procedures need be observed. Normal precautions should be observed for the safe handling and storage of all chemicals and protective clothing should be used. Refer to the product MSDS.

ORB102C can be manufactured both in the UK and in the USA. The product is supplied in 25L Kegs, in 200L (55 and 30 Gallon) drums, in 1000L IBCs (320 Gallon Tote Tanks), or in bulk (20 - 25MT) tankers.

Shelf Life

ORB102C is stable for a period of up to 2 years provided that it is stored and handled as specified in the product MSDS.



The information presented is complete and accurate to the best of our knowledge and belief. Since the applications and conditions in which the products may be used are outside our control, all recommendations and suggestions regarding their use are made without guarantee or warranty. Furthermore, ORBIJET cannot accept any liability for loss or damage which may be incurred in connection with the use of our products. In addition, ORBIJET cannot accept any liability for loss or damage incurred as a result of an infringement or an alleged infringement of any third party intellectual property rights caused (directly or indirectly) by the use of our products (in a manner that contradicts our suggested methods of use for such products).

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