

PRODUCT: ORB2100C

Asphaltene Dispersant and Cleaning
Hydrocarbon Based Solvent



Generic Description

1. Permits the recovery of Crude Oil from tank bottom sludge.
2. Contains no products detrimental to refinery operations
3. Aids in the removal of asphaltic deposits when used in automated tank cleaning systems and without the use of heat in many but not all cases.
4. Lowers the Viscosity of Asphaltene containing materials.
5. Improves the pour point of heavy oils.

General Information

ORB2100C is a unique blend of surfactants and solvents designed to aid in the dispersion of asphaltenes and asphaltic materials into crude oil or aliphatic solvents.

ORB2100C acts to improve the stability of these mixtures and as well as reduce their pour points.

ORB2100C may be used in treatment of heavy oil residues, visbreaker bottoms and heavy oil to improve the mixing speed and final viscosity when blending these materials with light naphtha's or other cutter stocks. **ORB2100C** also aids in the dispersibility of asphaltenes in crude oil production and can be used in emulsion breaker formulations.

Suggested Formulation/Dosage Rate

ORB2100C is typically applied at concentration levels of 250–10,000 ppm (0.25% to 1%). It can be added directly to the sludge, but it is more typically used in combination with a diluent such as a light naphtha, crude oil or aromatic solvent. Diesel fuel is a typical diluent. When a diluent is used the typical concentration level is 0.25% of the estimated heel volumen in the tank plus 1% to 2% of the diluent volume.

Application Information

ORB2100C... when used to treat or in the tank cleaning of heavy crude oil, a circulation for several hours (with or without heat) until all of the sludge has been dispersed. The circulation is then stopped and the solids and water are allowed to settle. The clean crude can then be pumped out of the vessel. For tank cleaning, the asphaltenes will have been dispersed and the gas-freeing of the tank is now able to be accomplished.

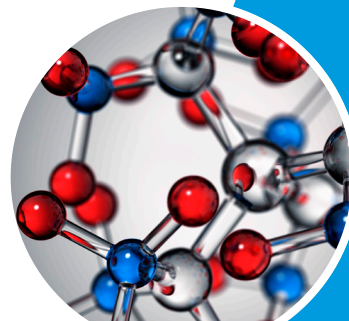
When applied to improve oil flow, **ORB2100C** can be added

to the crude at a rate of 100 – 1000 ppm (.01% to 1% by volume) diluted in an aromatic solvent; such as diesel fuel or other light aromatic solvents.

ORB2100C can be combined with other Orbijet products such as **ORB1355C** for tank cleaning/ gas-freeing, depending on composition of the deposit to achieve maximum effectiveness. Consult with Orbijet to determine the best application for your problem recipes that best suit your needs.



Advanced Chemistry



Oil & Gas Operations

Shipping and Handling

ORB2100C is a Flammable liquid. Avoid contact with heat and open flames. Always handle with gloves and eye protection.

ORB2100C contains strong solvents, which may have an adverse effect on some polymeric materials, particularly polyvinyl chlorides. Refer to the material safety data sheet (MSDS) for more detailed information.

Typical Physical Properties

Form: @ 70°F	Dark Amber Liquid
SPECIFIC GRAVITY:	0.9 at 15.5°C
Flash Point: °F (TCC)	25°C
FLASH POINT: °C (TCC)	n/a
pH:	-30°C
IONIC HARACTER:	Anionic

Product Packaging and Part Numbers

ORB2100C-US5	5 Gallon Non-Returnable Container
ORB2100C-US30	30 Gallon Non-Returnable Container
ORB2100C-US55	55 Gallon Non-Returnable Container
ORB2100C-US320	320 Gallon Nont Returnable Container

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