

Amodrill® 1410 Synthetic Olefin

Amodrill®1410 synthetic olefin is an aromatic free, low-viscosity fluid which has been shown to have improved biodegradability and lower bioaccumulation potential over other comparable drilling wastes. When used as the base fluid in a synthetic drilling mud (SBM), it boasts improved wellbore stability and performance over conventional mineral oil, and water-based mud systems. Amodrill®1410 is ideal where land farming is appropriate.

Typical Properties¹

	Value	Test Method
Kinematic Viscosity, cSt		
40 °C	1.87	ASTM D-445
100 °C	0.87	
Pour Point	- 18 °C	ASTM D-97
Flash Point	104 °C	ASTM D-93
Aniline Point	65 °C	ASTM D-611
Density		
15.6 °C, g/mL	0.775	ASTM D-4052-11
60 °F, lb/gal	6.47	ASTM D-4052-11

¹Typical properties will vary within specification limits

Chemical Registration Numbers

CAS: 1120-36-1

EINECS: 214-306-9

REACH: 01-2119485122-44-0000 / 0001

Environmental Test Properties

Ecotoxicity

Species	Toxicity	Method
Corophium Volutator	>1000 mg/kg sediment	NOCE (10-d)
Aquatic Plants	>1000 mg/L	EL50 (72-h)
Fish	>1000 mg/L	LL50 (96-h)

Biodegradability (Aquatic Environments)

	Biodegradation	Method
Marine Aerobic Ultimate, 28-day	72% THOD ²	OECD 306
Anaerobic, 275-day	76% Ratio = 0.7 ³	Modified ISO 11734

PAH (Polynuclear Aromatic Hydrocarbons)		
	<10 mg/kg	EPA 1654A

² Theoretical Oxygen Demand

³ Biodegradation rate ratio (%biodegradation of C1618IO reference / %biodegradation of test material) ≤ 1.0 = pass

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