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OILFIELD
TECHNOLOGY



ULTROIL® HFS *Series*

High flash point solvent for oilfield formulations

AN INDISPENSABLE MEMBER OF INDORAMA VENTURES

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OILFIELD TECHNOLOGY

Indovinya is the global specialty chemical and surfactants division of Indorama Ventures. We are the leading Ethylene Oxide producer in the Americas, with operations across 10 countries and 15 manufacturing locations.

Indovinya is rooted in chemistry, powered by people, driven by innovation, and guided by sustainability and community impact.

#2
Ethoxylation company globally

#1
EO producer in the Americas

#1
Non-ionic surfactant producer in the Americas



Footprint

EMEA
- Belgium

AMERICAS
- Brazil
- Mexico
- USA
- Uruguay
- Colombia
- Argentina

APAC
- Australia
- China
- India

15 Industrial Units

7 Global R&D Centers

Presence in **10** Countries

Approximately **3,000** Employees

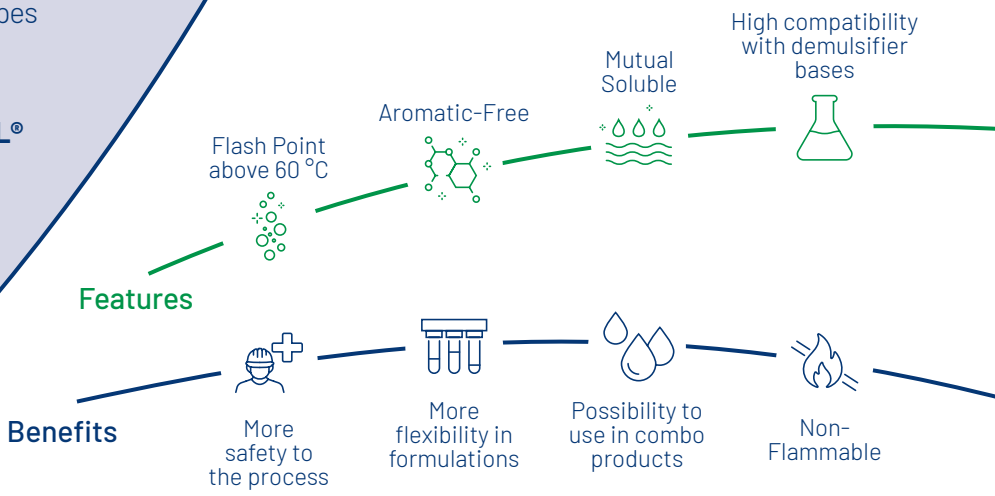
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OILFIELD TECHNOLOGY

ULTROIL® HFS 135 and **ULTROIL® HFS 96** are non-flammable, aromatic-free mutual solvents developed to be compatible with different types of formulations, such as Emulsion Breakers, H_2S Scavengers, or combo products of both applications. **ULTROIL® HFS 135** and **ULTROIL® HFS 96** decrease the formulation's viscosity and allow formulators to work either with flammable or non-flammable bases and keep the final product's flash point above 60 °C. Their flash points are 135 °C and 96 °C, respectively.





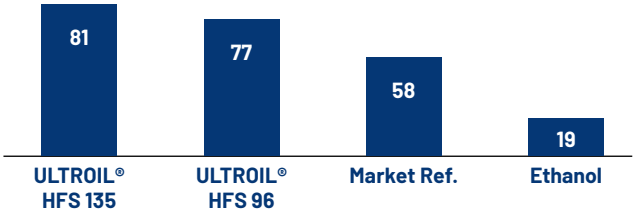
Technical Data

Properties	ULTROIL® HFS 135	ULTROIL® HFS 96
Appearance [@ 25 °C]	Colorless Liquid	Colorless Liquid
Density [g cm^{-3} @ 20 °C]	1.023	0.99
Viscosity [cP @ 20 °C]	7-9	4.4
Flash point [°C]	135	96

Flexibility Using Flammable Bases

Due to its high flash point, **ULTROIL® HFS** *Series* allows formulators to add flammable bases to oilfield formulations with final product above the flammability temperature (60 °C).

Final Formulation Flash Point (°C)



Final Formulation: 60% solvent + 10% **ULTROIL® EB 1030** (Flammable) + 30% **ULTROIL® EB 3020**

Mutual Solvency Power

ULTROIL® HFS 135 and **ULTROIL® HFS 96** can act as co-solvents in synergy with actives, increasing water tolerance in insoluble bases and enabling the use of water in diverse formulations, consequently improving the cost-effectiveness of the formulator's final products.

ULTROIL® HFS 135



5% 10% 15%

ULTROIL® HFS 96



5% 10% 15%

Market Ref. 1



5% 10% 15%

Water content (% w/w) added in a typical demulsifier formulation 10% **ULTROIL® EB 1030** + 30% **ULTROIL® EB 3020** + Solvent



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