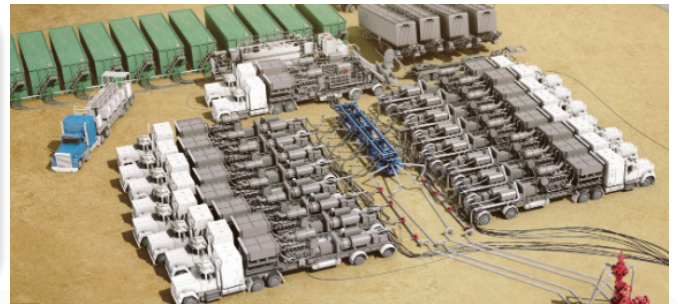
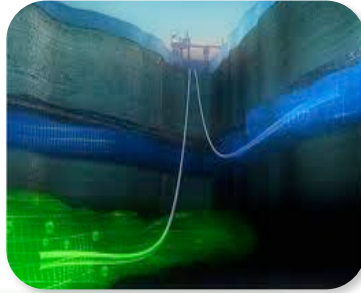


SAS MicroFrac 69 D

Use on and offshore as:

- Flowback Aid



Product Description:

SAS MicroFrac 69 D product helps hydraulic fracturing companies improve oil and gas recovery and production by enhancing the clean-up of fluids after stimulation. As a flowback aid, the SAS MicroFrac product is a fully dilutable microemulsion technology with a monomodal particle (micelle) size of just 8 – 12 nanometers (nm).

The SAS proprietary solution ensures maximum penetration, dispersion and retrieval of the fracking fluid through its unique physical dispersion properties. It does this in an environmentally sound manner and has no handling restrictions. This also means that the chemistry is safe and easy to deploy and is not formation damaging in any way. The micellar structure of the SAS microemulsion technology readily solubilizes and disperses in the fracking fluid, regardless of type and form.

The micro-encapsulation ability ensures maximum fluidity and near zero interfacial tensions resulting in fluids traveling in the direction of least resistance with minimal energy required. The technology therefore reduces pump pressures when deployed and will flow naturally to surface when the fracking operation is complete.

SAS MicroFrac 69 D can reduce the surface tension of 2 wt% KCl to less than 30 dyn/cm and the Interfacial tension with decane to less than 10 dyn/cm. These properties alleviate phase trapping, breaks emulsion blocks and helps increase the flow of oil and gas from the reservoir, by ensuring all the frac fluid fully flows out the well without impeding production.

Benefits of using SAS MicroFrac 69 D are:

Increases production by up to 30%

Reduces pumping pressures

Robust one pill approach that works under all environment conditions

How to use SAS MicroFrac 69 D

1. Make up fracking pill at surface (dose rate 2 - 4 GPT in frack fluid) in combination with fracking additives as required.
2. Pump pill into fracking application
3. Frack formation as normal
4. Displace to surface
5. Bring well into production

Physical & Chemical Properties

Appearance / Colour	Clear Colorless / Yellow Liquid
Solubility	Soluble in water / brine
Odour	None
Specific Gravity	0.95 – 1.05 @ 20°C
pH Value	5.0 – 7.0
Flash Point	> 94°C
Flammability	Non Flammable
Biodegradability	Readily Biodegradable
Recommended Dose Rate	2 – 4 GPT



Technical Data

Health & Safety

SAS MicroFrac 69 D is safe for handling and no special procedures need be observed. **SAS MicroFrac 69 D** is non flammable, non corrosive, non toxic and is biodegradable.

Storage

Storage of all chemicals and protective clothing should be used as specified in the product SDS.

SAS MicroFrac 69 D is stable for a period of up to 2 years provided it is stored and handled as specified in the product SDS.

Technical Information

SAS MicroFrac 69 D is stable when stored as specified by the product SDS.

SAS MicroFrac 69 D does not form oil/water emulsion wastes which minimizes waste production. After use, clean solids separate out under gravity or via centrifugation and can be sent to land fill. Oil can be recovered from the surface. Waste water can go to a water treatment plant for disposal.

Shipping & Packaging

SAS MicroFrac 69 D is manufactured in Houston, Texas and in the UK under ISO 9001:2008 and ISO 14001:2004 Quality, Environmental and Safety Management System Standards. The product is supplied in 200 kg drums and 1,000 kg IBCs or in 55 USG drums and 265 USG totes.

Contact us

To enquire about SAS products email us at

info@SAS-PS.com

or visit our website at

www.SAS-PS.com

16225 Park Ten Place, Suite 500
Houston, TX 77084
USA

T. +1 832 499 6958