



## DATA SHEET

### PROPERTIES AND MODE OF ACTION

**ALOEUREFRAC™** is a green product for use in formulations to prevent and cure fracture related drilling fluid loss. It was developed to offer an environmentally friendly product and a "green" option for the prevention of drilling fluid loss in the oil and gas industry. It is a green fluid loss control additive.

**ALOEUREFRAC™** is a natural product made from natural plants, mainly aloe barbadensis miller and aloe chinensis compounds.

**ALOEUREFRAC™** is a green, sustainable and biodegradable product formulated with aloe based polysaccharides and aloe based cellulose. Aloe based polysaccharides in liquid form, gives viscoelastic properties, acting as a plasticizer and mixer for all compounds, in conjunction with water, while aloe wet pellets are used as cellulose and contributes to block the openings in the wellbore. The use of both components avoid the lost circulation of drilling fluid, and later may be disintegrated when acid is applied.

It may be used as a bridging material, or as lost circulation material, since it contributes to block the openings in the wellbore. Aloe is a renewable resource, since it is obtained from a plant, with minimum carbon footprint.

#### Properties

1. Green solution to fluid loss
2. Product is fast to apply and seal off the affected zone
3. There is no need to shut in the well or limit the downtime
4. They can be applied via drilling mud during drilling operation
5. They are able to work in a high temperature and pressure environment as required
6. Solutions does not affect the capacity of the well to produce oil and gas
7. One option is a temporary barrier, the other option may be used as permanent
8. Both solutions are not HSE hazards to operators
9. Both solutions are sustainable, green and eco friendly, reducing carbon footprint
10. Both options use innovative materials such as aloe based polysaccharides, calcium carbonate and unexpanded perlite
11. Reduces environmental impact since it is not a chemically synthesized product

### INSTRUCTIONS FOR USE

**ALOEUREFRAC™** can be applied via drilling mud during drilling operation, as required depending the well. **ALOEUREFRAC™** can be used as:

**Temporary Solution:** It uses a combination of calcium carbonate mixed with **ALOEUREFRAC™**.

**Permanent Solution:** The solution when it is required to seal permeable zones by plugging pores at wellbore face, where such sealing must be permanent and not dissolved.

This formulation is a combination of unexpanded perlite and/or portland cement and/or pumicite, mixed with **ALOEUREFRAC™**. A good synergy is obtained when hydraulic cement is used with pumicite and unexpanded perlite.

### STORAGE AND TRANSPORTATION CONDITIONS

Keep the product in a cool and dry place, away from heat sources, direct fire or sources of ignition. **DO NOT EXPOSE TO DIRECT SUN.** Recommended storage temperature: 20° C.

**PRODUCT PRESENTATION:** 55 gal/200 L plastic drum. - IBC Tote bag of 1,000 L.

**REMOVE CAP WHEN EXPOSED TO SUN OR OVER 25 C - AVERAGE TEMPERATURE TO STORE PRODUCT IS 20 C - SHELF LIFE: 12 MONTHS**

## ALOEUREFRAC™

### MANUFACTURER

Made in Mexico for Aloetrade America LLC.

### COMPOSITION

Proprietary formula based on aloe extracts, aloe cellulose and natural polymers, thickeners, preservatives and acidulant.

### PACKAGING

Plastic drums 55 gal/200 L - IBC Tote bags 1.000 L

### PHYSICOCHEMICAL CHARACTERISTICS

Appearance and color: aloe gel and cellulose fine pellets, colour from amber to dark green..

Odor: characteristic vegetable.

PH: 3.6 / 6 - Flash point: N / A.

Relative density: 1,005 to 1,030

Solubility in water: complete.

### TOXICITY

- Non-toxic product.
- It is not polluting for humans, nor for plant, animal or aquatic world species.
- Product does not affect aquifers, rivers, streams, reservoirs or water tanks.
- It is biodegradable according to OECD 301.
- Does not generate bioaccumulation.

### RECOMMENDED DOSE

The dose depends on the type of production well and the formation characteristics.

Please consult our Technical Dept.