



MIST CUTTINGS TREATMENT BY SAS

Microemulsion Injection & Separation Technology by Surface Active Solutions Ltd

Fast system: 20 - 40 tons/hr

Result: <1% oil on cuttings

Mobile, using standard engineering

SAS microemulsion process allows for drill cuttings cleaning at the rate of drilling, using standard oilfield engineering equipment

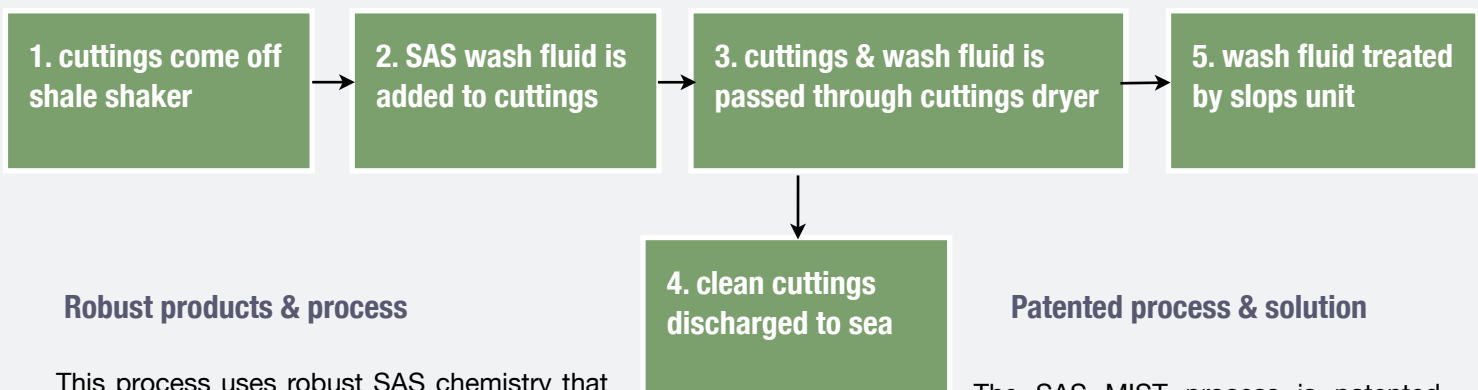
The SAS microemulsion products provide the capability to treat drill cuttings onsite using a simple wash and separate process. This process uses standard oilfield drilling fluids & waste handling equipment in order to achieve an oil on dry cuttings level of less than 1% by weight.

The straightforward process slurrifies the cuttings with a dilute microemulsion wash fluid after the cuttings have come off the shale shaker. This cuttings slurry is then processed using an industry standard cuttings dryer. The dry cuttings are clean and disposed off safely.

The separated wash fluid containing fines, water and oil is treated using a mobile slops treatment unit after which the water is discharged to sea.



Simple process using proven engineering & chemistry



Robust products & process

This process uses robust SAS chemistry that has been used in the industry for ten years. The SAS process has been successfully used by three different service companies to clean drill cuttings to less than 1% oil.

The SAS products have a track record of excellent performance on a range of drilling fluids and are used around the world from Canada and Scandinavia to the Middle East and Africa.

Patented process & solution

The SAS MIST process is patented with a range of international patents covering the use of microemulsions in cleaning drill cuttings and covering the type of microemulsion chemical formulations that deliver the capability to treat drill cuttings.

SAS drill cuttings cleaning product

**UK - CEFAS GOLD certified
Norway - Yellow Rated**

SAS116B

No taint warnings and no flag
for substitution warnings



Picture shows from left to right

1. Untreated cuttings (16% oil on cuttings)
2. Washed cuttings (<1% oil on cuttings)
3. Recovered mud and wash fluid

SAS process uses standard oilfield cuttings dryers

The SAS microemulsion cleaning system uses industry standard cuttings dryers. SAS can either supply a dryer or if this equipment is in place already the SAS products will enhance the process.



Surface Active Solutions Ltd

Surface Active Solutions based in Grangemouth, UK is a leader in developing unique chemistries capable of reducing waste and speeding up oilfield cleaning applications. The SAS products reduce waste from oilfield activities by 70 - 98% and reduce the time required to carry out cleaning operations by at least 50% compared to standard industry detergents or water only methods.

SAS was founded in 2000 and supplies its products to operators, service companies and waste management companies worldwide.

Patents & Knowhow for unique solutions

Surface Active Solutions has a strong and extensive IP portfolio of 12 international patents and patent applications covering unique formulations, the application of microemulsions and the process of using microemulsions to clean drill cuttings.

SAS has extensive knowhow in the use of microemulsion products and the successful implementation in drilling waste treatment, wellbore cleanup, slops splitting, mud cleaning and refinery waste treatment.

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SAS Products for:

Mud pit cleaning
Wellbore cleanup
OSV cleaning
Slop splitting
Heavy oil sludge treatment
Tank cleaning

Filtercake removal
Drill cuttings cleaning
Drill cuttings slurrifying
Heat exchanger cleaning
Rigwash
Degreasing