



Drill for Profits, Not Microorganisms

Peracetic Acid Solutions for the Oil & Gas Industry

STOP MICROORGANISMS AND HIGH CHLORINE DEMAND WITH PERACETIC ACID (PAA) WHICH IS A POWERFUL MICROBICIDE FOR OIL AND GAS WATER SYSTEMS.



Whether it's in wastewater or cooling systems, you need clean water and clean equipment to keep production flowing. Unfortunately, leaking contaminants such as diesel, naphthalene, phenol, ammonia and H₂S can fuel bacterial growth and undermine the effectiveness of chlorine bleach and other conventional oxidizers. PAA works better than conventional oxidizing microbicides in high demand systems to keep water systems cleaner, reduce the use of chlorine/chlorides and improve overall efficiency.

Quickly eliminate microbial contamination; significantly reduce or eliminate H₂S in water, oil, or gas, remove oil-wet (FeS) emulsions and scale from production equipment and well structures, plus much more.

PAA FOR FIELD OPERATIONS

- Oil and Gas Production
- Secondary Oil Recovery Systems
- Drilling Muds and Packing Fluids
- Hydraulic Fracturing
- Cooling Towers
- Evaporative Condensers
- Closed loop systems
- RO Pretreatment

ADVANTAGES OF USING PAA

- **Broad spectrum oxidizing biocide**
 - PAA is an oxidizing biocide that rapidly destroys aerobic and sulfate reducing bacteria while decomposing into environmentally benign byproducts, thus minimizing risk to the environment and human health
 - Biodegradable; breaks down to water and acetic acid (vinegar) and does not persist in the environment
 - Enables the recycling of 100% of produced and flowback water in hydraulic fracturing operations
- **No halogenated by-products or THM's**
- **Unaffected by ammonia or organic nitrogen compounds**
- **Compatible with common organic scale and corrosion inhibitors**
- **Lowers alkalinity to allow higher cycles of concentration than hypochlorite**
- **Safe for discharge to land or for surface irrigation**
- **Does not contribute conductivity or Total Dissolved Solids (TDS)**
- **Effective against algae and slime as low as 1-2 ppm**
- **Second only to ozone in oxidizing strength**
- **Compatible with friction reducer polymers**

DRILLING MUDS, WELL SQUEEZED FLUIDS, FRACTURING FLUIDS

For the preservation of drilling muds, workover and completion fluids and other products susceptible to contamination.



PAA can be used for the control of slime forming and spoilage bacteria, yeast and fungi and anaerobic sulfate reducing bacteria, *Desulfovibrio vulgaris*, that lead to reservoir souring and metal corrosion.

- Flooding, Injection and Produced Water
- Water Flooding Operations
- Injection Wells
- Hydrostatic Systems
- Pipeline and Tank Maintenance

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