COASTAL CHEMICAL
A BRENNTAG GROUP COMPANY

OILFIELD BACTERIA MITIGATION

ABOUT US

In controlling microbiological activity in oilfield systems, various parameters are considered to develop the most efficient and economical treatment program.

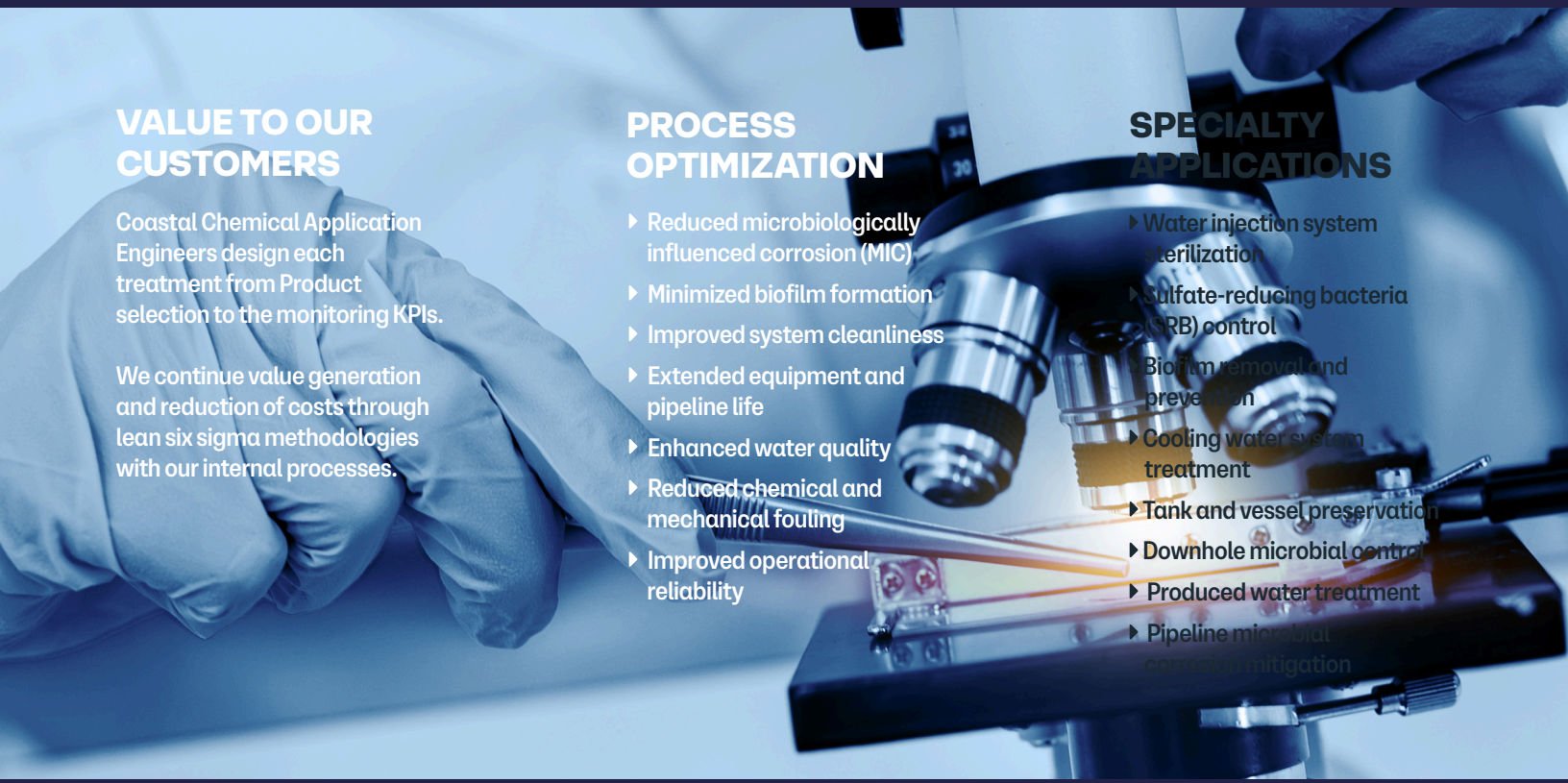
Coastal's chemical strategy for microbial control is designed to specifically address:

- Mitigation of microbial-induced corrosion (MIC) and souring caused by sulfate-reducing bacteria (SRB) and acid-producing bacteria (APB)
- Control of biofilm formation in pipelines, tanks, injection systems, and water treatment facilities
- Optimization of biocide selection, dosage, and injection strategy based on microbial load and system dynamics
- Compatibility with other treatment chemicals and production equipment
- Integration with microbial monitoring programs (e.g., ATP, qPCR, culture-based analysis)
- Compliance with local, state, and federal regulations regarding biocide handling, application, and discharge
- Use of advanced, environmentally responsible biocide technologies for both continuous and batch applications

OILFIELD BACTERIA MITIGATION

We offer a comprehensive portfolio of solutions to meet a wide range of operational needs. However, the products that best represent our core strengths and deliver the most value are highlighted in the table below. These key products reflect our most reliable, proven, and widely used formulations.

Biocide Name	System Name	Target Organisms	Water Type	Temperature Tolerance	Best For	Treatment Method
Glutaraldehyde	Water Injection, Produced Water	Sulfate-Reducing Bacteria (SRB), Iron Bacteria	Fresh or Brine	Moderate to High (up to 70°C)	Fast-acting kill, souring control	Batch or Continuous
THPS (Tetrakis Hydroxymethyl Phosphonium Sulfate)	Injection Water, Disposal Wells	SRB, General Bacteria	High TDS Brines	High (>80°C)	Biodegradable, scale inhibition synergy	Continuous or Slug
DBNPA (Dibromo-nitrilopropionamide)	Produced Water, Topsides	General Aerobic/ Facultative	Low to Moderate Salinity	Low to Moderate (<50°C)	Quick kill, low residue, fast hydrolysis	Batch Treatment
Isothiazolinones	Storage Tanks, Utilities	Broad-spectrum (Fungi & Bacteria)	Treated/Soft Water	Moderate	Long-lasting effect, wide compatibility	Continuous or Shock Dose
Quaternary Ammonium Compounds (Quats)	Pipelines, Downhole, Tank Cleaning	Biofilms, Gram-positive bacteria	Moderate Salinity	Low to Moderate	Surface disinfection, foaming applications	Batch or Pig Train Additive
Chlorine Dioxide / Oxidizing Biocides	Water Treatment Facilities	All Microbial Types	All Water Types	Broad Temp Range	Rapid disinfection, oxidizes organics	On-site Generation
Non-Oxidizing Blends (e.g., Glut/Quat)	Deepwater, Sour Wells	Mixed colonies, Biofilms	High Salinity	High	Broad coverage, extended protection	Engineered Program



VALUE TO OUR CUSTOMERS

Coastal Chemical Application Engineers design each treatment from Product selection to the monitoring KPIs.

We continue value generation and reduction of costs through lean six sigma methodologies with our internal processes.

PROCESS OPTIMIZATION

- Reduced microbiologically influenced corrosion (MIC)
- Minimized biofilm formation
- Improved system cleanliness
- Extended equipment and pipeline life
- Enhanced water quality
- Reduced chemical and mechanical fouling
- Improved operational reliability

SPECIALTY APPLICATIONS

- Water injection system sterilization
- Sulfate-reducing bacteria (SRB) control
- Biofilm removal and prevention
- Cooling water system treatment
- Tank and vessel preservation
- Downhole microbial control
- Produced water treatment
- Pipeline microbial corrosion mitigation

Contact Coastal Chemical today and get the Energy LEADER on your side.

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