



# WATER TREATMENT SOLUTIONS



**BRODY**  
CHEMICAL



## WELCOME TO BRODY CHEMICAL

Brody Chemical began operations in Salt Lake City, Utah in 1975. Since then, the company has grown from a small local company to one that provides superior products and services to over half of the United States. Brody's success is attributed to its commitment to create innovative and highly effective products—manufactured under strict quality control standards, a responsive technical support team, and a professional, well-trained, service-driven sales force. Brody Chemical's comprehensive product line boasts over 600 different formulations of sanitation, institutional, industrial and maintenance chemicals for professional use. Reducing the risks associated with chemical usage and disposal, avoiding depletion of the Earth's natural resources, and enhancing the safety and work environment for clients are core values of Brody Chemical.

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**B107 BOILER TREATMENT SOFT WATER MAKEUP** INDUSTRIAL SOFT WATER

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This product is an excellent, forgiving phosphate/polymer based treatment for steam boilers with soft water make-up. Use the product to inhibit scale and corrosion.

Dosage: 200 - 400 ppm in feedwater line.

Testing: 20 - 40 ppm phosphate.

Must use oxygen scavenger as a separate treatment.

**B152 BOILER TREATMENT SOFT WATER MAKEUP** ONE DRUM/SOFT WATER

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Complete water treatment (includes sulfite and amine) for steam boilers with soft water makeup. Use this product as a scale/corrosion inhibitor. It prevents pitting, disperses iron, and stabilizes calcium phosphate levels.

Dosage: 1000 - 2000 ppm in feedwater line.

Testing: 30 - 60 ppm phosphate, 30 - 60 ppm sulfite and 7.5 - 8.5 condensate pH.

**B160 BOILER TREATMENT SOFT WATER MAKEUP** SOFT WATER SYSTEMS

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Complete water treatment (includes sulfite, but NO amine) for steam boilers with soft water makeup. Use this product as a scale/corrosion inhibitor. It prevents pitting, corrosion, and scale while dispersing iron, calcium and solids.

Dosage: 1000 - 2000 ppm into feedwater line.

Testing: 30 - 60 ppm phosphate, 30 - 60 ppm sulfite.

**B760 PREMIUM BOILER TREATMENT** SOFT WATER

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A multifunctional liquid treatment for steam boilers up to 900 psi with soft water makeup. It provides unsurpassed scale, corrosion, and deposit control and can remove deposits from neglected boilers during normal operation.

Dosage: 800 ppm in deaerator or feedwater line.

Testing: 15 - 25 ppm phosphate, 30 - 60 ppm sulfite.

**B760D PREMIUM BOILER TREATMENT** SOFT WATER (ALK)

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A multifunctional liquid treatment for steam boilers up to 900 psi with soft water makeup of low alkalinity. It provides unsurpassed scale, corrosion, and deposit control and can remove deposits from neglected boilers during normal operation.

Dosage: 800 ppm in deaerator or feedwater line.

Testing: 15 - 25 ppm phosphate, 30 - 60 ppm sulfite.

#### **B790 PREMIUM BOILER TREATMENT**

#### **HARD WATER**

A multifunctional liquid treatment for steam boilers up to 900 psi with hard or inconsistent soft water makeup. It provides unsurpassed scale, corrosion, and deposit control and can remove deposits from neglected boilers during normal operation.

Dosage: 800 ppm in deaerator or feedwater line.

Testing: 15 - 40 ppm phosphate, 30 - 60 ppm sulfite.

#### **B790D PREMIUM BOILER TREATMENT**

#### **HARD WATER (ALK)**

A multifunctional liquid treatment for steam boilers up to 900 psi with hard or inconsistent soft water makeup of low alkalinity. It provides unsurpassed scale, corrosion, and deposit control and can remove deposits from neglected boilers during normal operation.

Dosage: 800 ppm in deaerator or feedwater line.

Testing: 15 - 40 ppm phosphate, 30 - 60 ppm sulfite.

#### **B503 CONDENSATE TREATMENT**

#### **INTERMEDIATE AMINE**

A good neutralizing amine that provides excellent coverage for most condensate systems.

Dosage: 10 - 50 ppm in steam depending on feedwater alkalinity and amount of condensate return.

Testing: Maintain condensate pH 8.0 - 8.5.

#### **B510 CONDENSATE TREATMENT**

#### **NEUTRALIZING AMINES**

A combination of short and long range neutralizing amines that provide excellent coverage for condensate systems. It protects both the portion of the condensate system near the boiler, and the distant portion of the system.

Dosage: 10 - 50 ppm in steam depending on feedwater alkalinity and amount of condensate return.

Testing: Maintain condensate pH 8.0 - 8.5.

#### **B515 CONDENSATE TREATMENT**

#### **COMBINED NEUTRALIZING AMINES**

A combination of short, intermediate, and long range neutralizing amines that provide excellent coverage for most condensate systems. The product protects all portions of the condensate system.

Dosage: 10 - 50 ppm in steam depending on feedwater alkalinity and amount of condensate return.

Testing: Maintain condensate pH 8.0 - 8.5

**B557 CONDENSATE TREATMENT**

**ADVANCED FILMING AMINES**

The advanced secondary and tertiary filmers of the product provide superior protection. It forms a corrosion barrier through a monomolecular, nonwetable film. Particularly beneficial for systems with low or no condensate return.

Dosage: 10 - 25 ppm in steam depending on feedwater alkalinity and amount of condensate return.

Testing: Maintain condensate pH 6 - 8 depending on iron levels.

**B633 CONDENSATE TREATMENT**

**FOOD GRADE**

A food grade condensate treatment where live steam contacts dairy and food products. This product is well suited for systems that have long steam runs.

Dosage: 10 - 50 ppm in steam depending on feedwater alkalinity and amount of condensate return.

Testing: Maintain condensate pH 7.5 - 8.5

**B600 OXYGEN SCAVENGERS**

**POWDER SULFITE**

A dry, catalyzed oxygen scavenger that prevents pitting and corrosion.

Dosage: 50 ppm to feedwater line or DA tank.

Testing: 30 - 60 ppm sulfite in boiler.

**B601 OXYGEN SCAVENGERS**

**LIQUID SULFITE**

A liquid catalyzed oxygen scavenger that prevents pitting and corrosion. This product contains sodium bisulfite, which reacts with oxygen to prevent pitting and corrosion, and cobalt sulfate to catalyze oxygen reaction.

Dosage: 150 ppm to feedwater line or DA tank.

Testing: 30 - 60 ppm sulfite in boiler.

**B725 OXYGEN SCAVENGERS**

**BOILER SUPPLEMENT**

A liquid boiler supplement to augment normal boiler treatments when needed. Though primarily an oxygen scavenger, it also provides solids suspension and sludge conditioning. Use in boilers up to 900 psi to prevent corrosion and pitting.

Dosage: 150 - 250 ppm to feedwater line or DA tank depending on need.

Testing: 30 - 60 ppm sulfite in boiler.

**B701 BOILER TREATMENT****ALKALINITY BOOSTER**

Adds hydroxide to boilers with low alkalinity feed water caused by dealkalizers, demineralizers, or low alkalinity makeup. Inhibits magnesium silicate and calcium phosphate scaling and buffers iron corrosion.

Dosage and testing: Maintain 250 - 500 ppm hydroxide in boiler.

**B815 BOILER TREATMENT****RESIN CLEANER/ION EXCHANGE BEDS**

This product contains balanced acids that clean iron fouled resin beds and a dispersant to carry contaminants away.

Dosage: Use 2 ounces per cubic foot of resin bed per regeneration for on line cleaning or full strength for batch cleaning.

**B820 BOILER TREATMENT****DESCALING AGENT**

Acts as a descaling agent for batch cleaning of scaled boilers. Extreme caution should be used with this product - pH and conductivity must be monitored. This product contains acid which reacts with calcium carbonate.

Dosage: Use 15 - 25 gallons of product per 100 gallons of system water.

**CT107 COOLING TREATMENT****HARD WATER SYSTEMS**

Acts as a crystal dispersant and corrosion inhibitor for towers with hard water makeup and acid free feed. Contains yellow metal corrosion inhibitor, a crystal modifier and dispersant and a unique polymer inhibits calcium carbonate and suspended solid deposition.

Dosage: 150 ppm in tower basin.

Testing: 6 - 9 ppm phosphonate.

**CT215 COOLING TREATMENT****SOFT WATER SYSTEMS**

Superior corrosion and deposition inhibitor for cooling towers with soft water or acid adjusted makeup. The unique polymer mix inhibits calcium carbonate, suspended solids, and phosphate deposits.

Dosage: 150 ppm in tower basin.

Testing: 4 - 6 ppm phosphonate, 2 - 3 ppm phosphate.

**CT872 COOLING TREATMENT**

**PREMIUM COOLING TREATMENT "PRIDE"**

Excellent multifunctional liquid cooling treatment that provides superior scale, corrosion, and deposit control. Use in systems with or without acid feed that have hard water makeup. This product remains stable when used with oxidizing and non-oxidizing biocides.

Dosage: 240 ppm in tower basin

Testing: 8 - 12 ppm phosphonate

**CT874 COOLING TREATMENT**

**PREMIUM COOLING TREATMENT "PLUS"**

Excellent multifunctional liquid cooling treatment that provides superior scale, corrosion, and deposit control. Use in systems with or without acid feed that have hard water makeup. This product remains stable when used with oxidizing and non-oxidizing biocides.

Dosage: 120 ppm in tower basin

Testing: 8 - 12 ppm phosphonate

**CT878 COOLING TREATMENT**

**PREMIUM COOLING TREATMENT**

Excellent multifunctional liquid cooling treatment that provides superior scale, corrosion, and deposit control. Use in systems with or without acid feed that have hard water makeup. This product remains stable when used with oxidizing and non-oxidizing biocides.

Dosage: 60 ppm in tower basin

Testing: 8 - 12 ppm phosphonate

**CT410 COOLING TREATMENT MICROBICIDES**

**MICROBICIDE CONCENTRATE**

A non-oxidizing biocide that acts as an effective algaecide and bactericide. This product controls algae and bacteria in towers and heat exchangers.

Dosage: 4 ounces per 1,000 gallons of system volume once or twice a week.

Testing: Dip slide.

**CT450 COOLING TREATMENT MICROBICIDES**

**CHLORINE TABS 3"**

A broad spectrum oxidizing biocide that maintains available chlorine (90%) and effectively eliminates bacteria and algae. This is a stable chlorine which is not affected by elevated pH.

Dosage: One tablet per 100 tons capacity or sufficient to obtain 0.5 - 1.0 ppm free chlorine one day after application.

**CT461 COOLING TREATMENT MICROBICIDES**

**BROMINE TABS 1"**

A broad spectrum oxidizing biocide that eliminates bacteria and fungi and inhibits algae.

Dosage: Sufficient to obtain 0.5 - 1.0 ppm free chlorine one day after application depending on biological loading to system.

**CT470 COOLING TREATMENT MICROBICIDES**

**CHLORINE LIQUID**

A broad spectrum oxidizing biocide effectively eliminates bacteria and fungi and inhibits algae.

Dosage: 4 ounces per 1,000 gallons of system volume or sufficient to obtain 0.5 - 1.0 ppm free chlorine one hour after application.

**CT484 COOLING TREATMENT**

**BIOSTATIC ANTIFOULANT**

A concentrated non-oxidizing biostat that acts as an effective algaestat, fungistat and bacteriostat. This product controls algae, bacteria and fungi in towers and heat exchangers. Use this product also in evaporative coolers, scrubbers, air washers, humidifiers and other systems to control fouling and odors.

Dosage: Add 8 ounces per 1,000 gallons of system water 1 - 3 times per week.

Testing: Dip slide.

**CT580 COOLING TREATMENT**

**ORGANIC DISPERSANT**

An organic penetrant and dispersant that removes biological fouling in heat exchangers and cooling towers. Use also in evaporative coolers, scrubbers, air washers, humidifiers and other systems to control fouling and odors.

Dosage: 150 ppm until system is clean. Make sure to remove biomass from strainers, small lines or heat exchangers.

**CS205 CLOSED LOOP SYSTEMS**

**MOLYBDATE**

An iron/steel and yellow metal corrosion inhibitor for chilled and heating closed systems. Contains molybdate and nitrite.

Dosage: 4 gallons per 1000 gallons system volume.

Testing: 50 - 75 ppm molybdenum, 300 - 400 ppm nitrite.

**CS966 CLOSED LOOP SYSTEMS**

**PREMIUM CSTREATMENT**

Multifunctional liquid product that combines excellent corrosion protection for all metals along with superior dispersion. Use in chilled and heating systems. Works with either soft or hard water makeup.

Dosage: 1 gallon per 100 gallons system water

Testing: 600 - 800 ppm nitrite for CHW, 800 - 1200 ppm nitrite for HW

**G110 GENERAL PRODUCTS**

**CORROSION INHIBITOR/PHOSPHATE**

A phosphate based corrosion inhibitor for potable water systems. This product is used to prevent corrosion in large volumes of potable drinking water.

Dosage: Use 4 gallons product per 1,000,000 gallons of potable water.

**G200 GENERAL PRODUCTS**

**ANTIFOAM-DEFOAMER**

Add this product directly to a system as a foam suppressant. This product is a silicone based and food safe defoamer to be used anywhere a foaming problem exists.

Dosage: Very concentrated - use only 2 - 20 ppm.

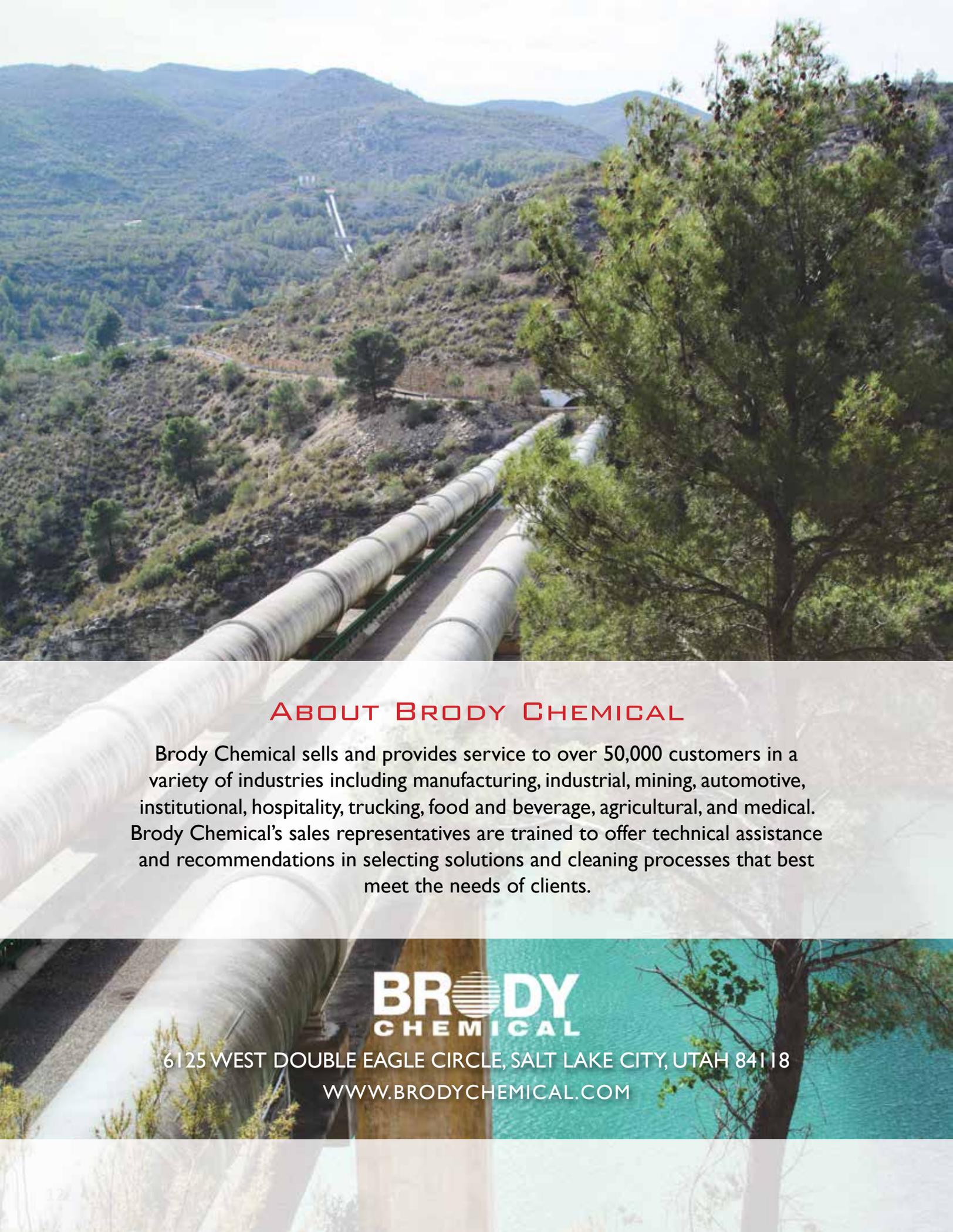
**G810 GENERAL PRODUCTS**

**DESCALER**

A highly concentrated combination of strong acids and surfactants that penetrate deposits for general scale cleaning. This product must be used with extreme caution avoiding any heat. Make sure to limit cleaning time and neutralize and passivate system after cleaning.

Dosage: 7 - 12 gallons per 100 gallons of system volume.





## ABOUT BRODY CHEMICAL

Brody Chemical sells and provides service to over 50,000 customers in a variety of industries including manufacturing, industrial, mining, automotive, institutional, hospitality, trucking, food and beverage, agricultural, and medical. Brody Chemical's sales representatives are trained to offer technical assistance and recommendations in selecting solutions and cleaning processes that best meet the needs of clients.

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