BIOLOGICAL CONTROL

Water Additives North America

www.brenntagwater.com
Uncontrolled biological growth can have an adverse effect on many applications including water treatment, preservation, sanitation, oil & gas operations, pulp & paper mill applications, food processing, agriculture operations, and many others.

Brenntag has an extensive product line of biocides to effectively control many of these troublesome production, cooling, and wastewater complications.

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As the Oil & Gas industry continues to grow, Brenntag offers a wide variety of biocides approved for pipelines, well systems, drilling muds, workover fluids, fracking fluids, and other oil and gas applications.

Uncontrolled biological growth can have an adverse effect on many applications including:

Effective scale, deposit, and corrosion cooling water treatment programs have failed due to the ineffective control of biological growth. Brenntag’s biocide offering is also effective in many other water applications, air washers, swimming pools, reverse osmosis, wastewater applications, ornamental fountains, and ponds.

Preservation of slurries, paints, coatings, and inks from biological spoilage is key to extending shelf lives. Brenntag has biocide packages to ensure stable products for customer satisfaction.

Brenntag’s bleach is effective, proven, and reliable for the control of biological activity in swimming pools and numerous other applications. Sodium hypochlorite, calcium hypochlorite, dichlor, and trichlor are proven chemistries.

As the Oil & Gas industry continues to grow, Brenntag offers a wide variety of biocides approved for pipelines, well systems, drilling muds, workover fluids, fracking fluids, and other oil and gas applications.
An uncontrolled biological problem in a pulp and paper mill can greatly affect and reduce production. Brenntag offers a wide range of chemistries approved for various applications.

The need to control algae, fungi, and bacterial growth in agriculture crop irrigation water is critical to ensure a successful horticulture yield.

Brenntag biological control for food applications include brewery pasteurization, can warmers, retort systems, fruit and vegetable washing, and sugar beet process water systems.
The proper use of correct biocides have proven to be effective in controlling biological growth and ensuring an effective treatment program. Brenntag is a leading distributer to the cooling water treatment market, and our Water Additives Team is prepared to assist in selecting the correct biocide for your application.

We offer the biocides needed to effectively control biological problems. By utilizing our extensive distribution chain you can use the best biocide for the job. Brenntag has the supply partnerships to provide registered and approved chemistries throughout the United States to save registration time and money.

### Biocide Chemistries Offering

<table>
<thead>
<tr>
<th>BCDMH</th>
<th>Isothiazolin</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bleach</td>
<td>Peracetic acid</td>
</tr>
<tr>
<td>Carbamate</td>
<td>Sodium bromide</td>
</tr>
<tr>
<td>SDG Solution 3000 (liquid stabilized chlorine dioxide)</td>
<td>Stabilized bromine</td>
</tr>
<tr>
<td>DBNPA</td>
<td>Terbuthylazine (TBZ)</td>
</tr>
<tr>
<td>Dichlor</td>
<td>Trichlor</td>
</tr>
<tr>
<td>Glutaraldehyde</td>
<td>TTPC</td>
</tr>
<tr>
<td>Isothiazolin plus bronopol</td>
<td></td>
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</tbody>
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**NOTE:** It is a violation of federal law to use these products in a manner inconsistent with its labeling.
ABOUT BRENNTAG NORTH AMERICA

We effectively connect chemical & ingredient manufacturers and users in winning relationships. With over 10,000 products, a world-class supplier base, and more than 190 distribution locations across the United States and Canada, Brenntag North America offers one-stop-shop solutions to around 40,000 customers.

As a solutions provider, our technical services include specific application technology, extensive technical support, and value-added services such as just-in-time delivery, product mixing, formulation, repackaging, and inventory management.

Disclaimer: This document should be used as a reference only. Ultimate decisions are the sole responsibility of the customer. While the information set forth above has been prepared based on information believed to be reliable, any recommendations or advice given by Brenntag, its employees or agents in connection with the sale or use of products are provided as a courtesy only and without any liability. All warranties, expressed or implied, as to the accuracy of the information provided, including, without limitation, any implied warranty of fitness for a particular purpose, are expressly disclaimer and all responsibility for use of or reliance on such information rests solely with the customer. Please contact your local Brenntag representative for additional information and product availability.

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