

# BioRID 40i BIOCIDES

## Product Data Sheet

### General Description

BioRID® 40i biocide, a clear brine fluid, is an aqueous sodium bromide solution.

### Applications

BioRID 40i biocide is intended for use as a disinfectant, sanitizer, slimicide, bactericide, algacide, fungicide, and molluscicide in the following applications:

- pulp and paper mills;
- waste water treatment systems;
- air wash water systems;
- re-circulating and once-through cooling water systems;
- evaporative condenser systems;
- sewage systems;
- heat exchanger systems;
- industrial processing water;
- industrial scrubbing systems;
- domestic and commercial non-potable water systems;
- influent systems and waste water systems for the control of aquatic environmental bacteria;
- slime forming algae; and
- bacteria, fungi and related odors.

BioRID 40i biocide must be used in combination with an oxidizer such as sodium hypochlorite (12.5%) or chlorine gas (99%) to produce hypobromous acid.

### Availability

BioRID 40i biocide is available from West Memphis, AR.

#### TETRA Chemicals

24955 Interstate 45 North  
The Woodlands, Texas 77380

**Phone:** 281.367.1983

**Customer Service:** 800.327.7817

**Fax:** 281.298.7150

[www.tetrachemicals.com](http://www.tetrachemicals.com)

Because use conditions and applicable laws may differ from one location to another and may change with time, Customer is responsible for determining whether products and the information in this document are appropriate for Customer's use and for ensuring that Customer's workplace and disposal practices are in compliance with applicable laws and other governmental enactments. Seller assumes no obligation or liability for the information in this document. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED. Further, nothing contained herein shall be taken as a recommendation to manufacture or use any of the herein described materials or processes in violation of existing or future patents.

### Safety and Handling

BioRID 40i biocide is a strong salt solution. Wear appropriate protective, impervious clothing. Wear safety glasses with non-flexible side shields or chemical goggles for proper protection of the eyes. Wear appropriate protective non-leather gloves and boots. Chemical protective gloves and boots such as PVC or Nitrile are recommended. Leather products do not offer adequate protection and will dehydrate with resultant shrinkage and possible destruction. A respirator is not indicated under normal operating conditions. For misty conditions, wear a NIOSH-approved mist respirator. Before using this product, refer to the SDS which is available on the Company's website for complete safety and handling guidelines.

#### PHYSICAL PROPERTIES

<b>Appearance</b>	Clear, colorless solution
<b>Odor</b>	Odorless
<b>Assay</b>	39 to 41% by weight NaBr
<b>Crystallization Temperature</b>	-21°F (-29.4°C)
<b>Flash Point</b>	None
<b>Boiling Point</b>	212°F (100°C) to 233.6°F (112°C)
<b>Turbidity</b>	6 NTU maximum
<b>Density @ 20°C</b>	11.65 lb/gal minimum

#### CHEMICAL PROPERTIES

<b>Chemical</b>	NaBr
<b>pH (1:10 dilution)</b>	7.0 to 8.0
<b>Iron</b>	10 mg/kg
<b>Hardness</b>	25 mg/kg