



BioGuard™ SHOCK is a fast-acting, non-oxidizing membrane-safe biocide for industrial applications. Effective against a broad spectrum of bacteria, BioGuard™ SHOCK can also be applied to control fungi and algae. This fast-acting biocide breaks down quickly, and as such does not present the same long term environmental impact as other biocides.

### Features / Benefits

- Contains 20% active 2, 2-dibromo-3nitrilopropionamide (DBNPA)
- Provides broad-spectrum control of bacteria
- Fast-acting membrane compatible microbiocide
- Breaks down at neutral to high pH
- Neutralizes by sodium bisulfite

### Uses

- Used online or as intermittent Clean In Place
- Control of bacterial, algae and fungi in membrane systems

### Specifications

Appearance	Yellow to amber liquid
pH	1.50 – 5.00
Density (kg/liter)	1.20 – 1.30

### Packaging

Pail: 5 gallon/18.9 liter

Tote: 275 gallon/1,040 liter

Drum: 55 gallon/208 liter

Bulk: available upon request

*For special packaging options, please contact PWT or your local distributor.*

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LIQUID BIOCIDES

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## General Mixing & Application Instructions for BioGuard™ SHOCK

1. Feed product neat from shipping container
2. Typical dose rates are 100 ppm as Clean In Place, circulate for 30 minutes
3. Can be fed as online shock treatment at 20 ppm for 1-2 hours for non potable systems
4. Call Professional Water Technologies or your local distributor for custom chemical dosing recommendation.

## ProDose XPRT™ – Scaling Prediction Software

ProDose XPRT™ uses the most accurate scaling prediction calculations available to accurately determine effective antiscalant dosage, and cleaning chemical usage. The user can enter multiple cases to study various operating conditions, directly enter concentrate analysis, and select the best PWT product and dosage for the application.

*ProDose XPRT™ is available upon request only. Please contact your PWT representative for more information.*

The screenshot displays the PWT ProDose software interface. At the top, there's a header with the PWT logo and a navigation bar with tabs for UNITS, TEMPERATURE, PERMEATE FLOW, RECOVERY, ANTISCALANT, DOSAGE, SOURCE, PROJECT NAME, and CASE. Below this, a sidebar on the left contains icons for PROJECT INFORMATION, WATER QUALITY, SYSTEM INFORMATION, CHEMICAL SELECTION, CALCULATIONS, and REPORT. The main content area is divided into several sections: OVERVIEW (with fields for CLIENT NAME, PROJECT NAME, LOCATION, PREPARED BY, DATE, and WATER TYPE), MEASUREMENTS (with preset units, temperature, flow rates, and mass units), COMMENTS (OPTIONAL), and TOTAL CASES (1 AVAILABLE). The TOTAL CASES section shows a table with columns for Cases and Modified Date, with one case listed as '1' modified on '5/27/2016'. Below the table is a section for Selected Case Description.