

### PERFORMANCE BENEFITS:

- Instantaneous antimicrobial activity as a non-oxidizing slimeicide and bactericide.
- Kills bacteria, fungi and algae.
- Certified by the U.S. Environmental Protection Agency for use specifically in RO systems.
- Degrades rapidly and naturally to comply with strict environmental discharge regulations.
- Compatible with polyamide and cellulose acetate membranes.
- Can be used with other Avista cleaners.

RoCide® DB20 is a concentrated, fast-acting, non-oxidizing liquid biocide for intermittent use that provides instant antimicrobial activity. It is based on a 20% solution of the active ingredient dibromo nitrilopropionamide (DBNPA).

RoCide DB20 is certified by the U.S. Environmental Protection Agency (EPA) for use in reverse osmosis (RO) systems. It degrades rapidly and naturally, making it a cost-effective method of eliminating contamination in compliance with strict discharge regulations.

### INSTRUCTIONS FOR USE

RoCide DB20 may be used in RO applications as a biocide for intermittent use or as a membrane cleaner. For potable applications, refer to local regulations.

#### Biocide for Intermittent Use

Used as an on-line biocide for intermittent use, RoCide DB20 acts like a “shock treatment” to control fouling. The dose level and frequency should be optimized according to the bacteriological challenges present in the feedwater. A typical dose is 50 mg/l for one hour per week.

#### RO Membrane Cleaner

RoCide DB20 is normally applied as the first stage of cleaning using solutions of 50-200 mg/l depending on the degree of fouling. The solution is circulated through the membranes for 1-3 hours. Because RoCide DB20 is a fast-acting biocide, it should be added in batches of 50 mg/l four times during the circulation period.

### PRODUCT INFORMATION

#### Packaging and Storage

Standard regional pack sizes are listed below. Information on drumless or bulk tanker delivery is available on request. Store and apply RoCide DB20 as supplied. Not suitable for dilution with water.

#### SPECIFICATIONS

Appearance: Clear, light yellow to amber liquid

pH (as supplied): 2.0-5.0

Specific gravity (H<sub>2</sub>O = 1): 1.2-1.3

| PACKAGING FORMAT | AMERICAS/ ASIA | EMEA    |
|------------------|----------------|---------|
| Pail             | 50 lb          | 20 kg   |
| Drum             | 500 lb         | 200 kg  |
| IBC tote         | 2500 lb        | 1200 kg |

Please consult your sales representative for further technical or logistical details and always review the SDS before use to ensure suitable safety precautions are followed.

#### CORPORATE OFFICES

##### Avista Technologies, Inc.

##### Global Headquarters

140 Bosstick Boulevard  
 San Marcos, California 92069  
 United States

Tel. | +1.760.744.0536

##### Avista Technologies (UK) Ltd

13 Nasmyth Square, Houstoun Industrial Estate  
 Livingston, EH54 5GG  
 United Kingdom

Tel. | +44 (0) 131 449 6677