

TECHNICAL BULLETIN



19 Motivation Dve Wangara, WA, 6065 AUSTRALIA
T +61 8 9302 4000 | FREE 1800 999 196 | F +61 8 9302 5000

DBNPA 20%

A NON - OXIDISING BIOCIDES

MATERIAL & FUNCTION

DBNPA 20% (2,2-dibromo-3-nitrilopropionamide) is a fast-acting, non-oxidizing biocide and is very effective against a broad spectrum of microorganisms.

It is completely miscible with water upon dispersion at normal use levels.

Quick kill broad-spectrum microbiocide, fungicide and algacide.

Microbiocide kill time measured in minutes vs. hours for other types of microbiocide agents.

Effective against Legionella pneumophila (Legionnaire's Disease causing bacteria).

The rate of this activity is not affected by pH, and antimicrobial control is rapidly achieved. Because of its extremely rapid kill, proliferating microbes and their biofilm formation are either eliminated or significantly reduced.

Environmentally friendly* - Rapidly breaks down to non-polluting by-products.

Inexpensive to use – as little as 22 g treats 1000 L of water.

Safer for use in galvanized, copper and steel systems than chlorine and bromine.

Can clean up fouled systems where high levels of organics, slime and biomass are present.

PROPERTIES

Active Ingredient (%)	20% by weight
Inert Ingredients	Polyethylene glycol and water
Colour	Colourless to brown
Appearance	Liquid
Odour	Odourless to mild
Freezing Point	Approximately 0°C
Boiling Point	> 70°C for solution, but active ingredient decomposes prior to boiling
Specific Gravity	1.2-1.3 @ 25°C
Vapor Pressure (DBNPA)	18.9 mmHg @ 25°C Estimated
Incompatible with reducing agents (metabisulfite), oxidizing agents (chlorine) and sunlight.	

APPLICATIONS

COOLING WATER SYSTEMS

For use in re-circulating cooling systems and cooling towers to control slime-forming bacteria.

a) For noticeably fouled systems, use 25 – 50 ppm – approx. 22 – 44 g per 1000 L of system water until control is achieved. For on-going operation, use 2.0 – 10 ppm – 1.5 to 7.5 g per 1000 L daily to once per week on an as-needed basis.

b) When noticeable fungi and algae are present, use 250 – 500 ppm – 202 to 375 g per 1000 L of water in the system, as needed, to achieve control. For ongoing control of fungi and algae use 150 – 500 ppm - 120 to 375 g per 1000 L daily to once per week on an as-needed basis.

Recommended dosage rates:

1. Bacterial slime - 22 – 104 g per 1000 L of water
2. Fungi and Algae – 120 to 375 g per 1000 L of water
3. Continuous feed - 3 – 9 g per 1000 L of water

MEMBRANE ANTI-FOULING

Add continuously to the membrane system feed water at a rate of 10-100 ppm based on the feed water flow rate (8 to 80 mL/min per cubic meter of feed water). For on-line, intermittent feeding the addition should be for duration of at least 1 hour.

NOTE: Do not add DBNPA 20% in the presence of sodium bisulfite or other reducing agents which are being added to the feed water of the membrane system. The addition of any reducing agents must be suspended at least 15 minutes prior to the addition of DBNPA in order to avoid neutralization and deactivation of the active ingredient.

DBNPA 20% may be added to the feed tank used for an off-line chemical cleaning procedure. Addition should be at a rate of 50 to 170 ppm based on the total amount of solution in the feed tank (40 to 136 mls per cubic meter).

Following the complete transfer of feed solution, re-circulate for 30 minutes to 3 hours.

Frequency of addition should be every 5 days or as needed.

CAUTION

Avoid contact with skin and eyes and avoid breathing vapour.

PACKAGING

200L drums

IMPORTANT NOTICE TO CUSTOMER

*Since the use of this product is beyond the control of either seller or manufacturer, their only obligation shall be to replace any quantity of product which is proven defective. They cannot assume any risk or liability in excess of the purchase price of the product itself, which does not include labour or any consequential damages resulting from the use of this product. Determining the suitability of this product for any intended use shall be solely the responsibility of the user. **ALWAYS TEST FIRST.***

[E:\TECHBULL\BLANK.DOC](#)