



Product Data Sheet

BCP™ 1000 Series Products* are multi-purpose products. Their primary use is as a powerful organic deposit cleaner, deposit penetrant, and deposit dispersant in industrial water systems. They are also used in All-in-One drum formulations.

BCP™ 1000 Series Products, used with biocide, provide a cost effective Biofilm Control Program. BCP™ 1000 Series Products are commonly used in *Legionella* cleanup and maintenance programs.

When used as a cleaner/dispersant, BCP™ 1000 Series Products provide copper corrosion inhibition similar to azoles. When used with citric acid in formulated form or co-fed, they provide excellent mild steel corrosion inhibition.

*BCP™ products are not sold, warranted, or implied to be used as a biocide by AMSA, Inc. in the USA.

Product Description

Active Ingredient:	Proprietary amide hydrolysate (DTEA II™)
Solvent:	Water
Physical State:	Liquid solution
Color:	Pale yellow-brown to light amber
Clarity:	Clear to slightly cloudy
pH:	6 – 7
Density:	8.3 lb./gallon
Shelf life:	One year minimum
Freeze Thaw:	If frozen, simply thaw at room temperature and slightly agitate

Packaging

BCP™ 1000 Series products are packaged in:

- 275 gallon totes
- 55 gallon non-returnable near-clear plastic drums
- 15 gallon near-clear plastic drums
- 30 gallon near-clear plastic drums
- 5 gallon square near-clear pails
- 5 gallon round white pail with pour spout

Shipping is not regulated as per DOT standards.

Custom Formulations

Call us regarding concentrates for manufacturing use product (MUP) purposes. Proprietary formulations which provide additional corrosion inhibition and scale control have also been developed by distributors and customers of AMSA, Inc. AMSA, Inc. provides full support for formulations.



Features

- Penetrates, disperses, cleans, removes organic deposits from industrial water system surfaces
- Works well with algaecides in many algae control programs** as cleaner, dispersant, and penetrant aid
- Biodegradable (NPDES permit discharge benefit)
- Azole-like copper corrosion inhibition properties
- Reduces corrosion by keeping metal surfaces free of organic deposition (indirect mode of action), as well as acting similar to a film forming amine (direct mode of action)
- Fast acting
- Highly effective in high demand systems such as high COC and high solids systems (high TDS)
- Increases biocide effectiveness and lowers biocide use levels
- Excellent compatibility with cooling water treatment programs*
- Reduces oxidizing biocide demand and increases biocide residuals
- Not affected by high pH; works very well at pH above 7
- Not affected by high organic load
- Not affected by high concentrations of ammonia, hydrogen sulfide, or other strong nucleophiles
- Exceptionally good fit in All-in-One drum formulations for traditional scale and corrosion formulas

* Call us before using with glutaraldehyde which provides synergistic benefits but can form a pink color at times.

**Used in an algae control program, BCP™ 1000 Series Products function as dispersant, cleaner, and penetrant aid.

Special Uses:

Formulations – Excellent use as a component in traditional scale & corrosion formulation recipes to provide an All-in-One drum product.

Legionella Control Programs – Proven efficacy as cleaner and dispersant in *Legionella* control programs. Call us for case studies and related information.

General Use Guidelines

BCP™ 1000 Series Products may be used in two modes:

- 1) **Cleanup** of a fouled system – Use BCP™ 1000 Series Products as a part of the physical and/or chemical program and then proceed to use BCP™ 1000 Series Products in maintenance mode.
- 2) **Maintenance** to keep systems clean (Clean it Up & Keep it Clean™)

Dosage methods: Slug, Continuous, or Semi-continuous

BCP™ 1000 Series Products may be directly added to a water system at a point of good agitation to insure proper dispersal in the system. See the 'Application Guide for BCP™ 1015' for specific information on dosing.

BCP™ (Biofilm/Algae/Legionella Control Program) method:

Using BCP™ 1000 Series Products with your biocide/algaecide of choice provides an effective Biofilm/Algae/*Legionella* control program. Call us for specific information on which type of biocides are preferred in our view, what specific biocides have been used effectively, etc.

Environmental Benefits

- Low persistence in the environment (NPDES discharge permit benefit)
- These products are expected to be rapidly biodegradable based on similar products performance (NPDES permit discharge benefit)

Regulatory Considerations

BCP™ 1000 Series Products are biodegradable (OECD guidelines and aquatic use profile is in keeping with modern day expectations of water treatment chemicals for ecological friendliness. For comparison purposes, BCP™ 1015 is 6X to 60X safer* in aquatic toxicity testing than the chemical called ADBAC (a quat biocide). Note: BCP™ 1015 is not a quat.

*The aquatic toxicity profile is provided for general comparative purposes only and does not imply, warrant, or state to use it in any manner not in keeping with local regulations.

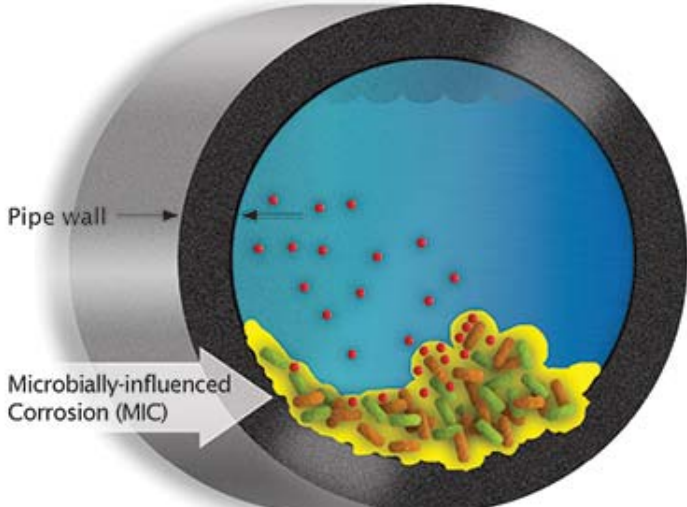
Handling Considerations

Please refer to SDS before handling these products. BCP™ products require handling that conforms to typical procedures required of strong industrial strength cleaners, detergents, and soaps.

How a Biofilm Control Program Works

Without BCP™ chemistry

- Oxidizing and non-oxidizing biocides have limited penetration into biofilm.
- The metal pipe wall shows evidence of MIC beneath biofouling deposits.



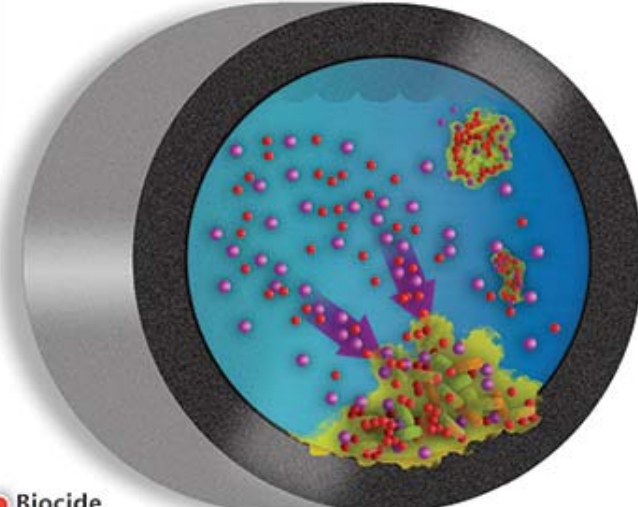
Pipe wall

Microbially-influenced Corrosion (MIC)

With BCP™ chemistry

The penetration/dispersion/cleaning properties result in:

- Deeper penetration of biocides into biofilm allowing better bacteria kill
- Destabilized biofouling deposits removed from surfaces
- Cleaner surfaces with less MIC & better heat transfer



● Biocide ● AMSA BCP™ Chemistry

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