



Legionella Control and BCP™ Chemistry

Effective *Legionella* Control Requires an Effective Biofilm Control Program

Legionella bacteria grow in biofilms in building water systems, where they are protected from the disinfecting action of oxidizing and non-oxidizing biocides.

Effective *Legionella* control must have effective biofilm control throughout building water systems.

Effective Biofilm Control Requires More than a Biocide!



Key documents recommend the use of a '**dispersant**' in emergency cleaning and routine maintenance of cooling towers.

AMSA BCP™ Chemistry is a Dispersant & MUCH MORE!

Biofilm Penetration ~ Dispersant ~ Cleaner

Cooling Technology Institute:

Emergency Disinfection Procedure:

1. Add a biocide sufficient to achieve 25 to 50 ppm of free residual halogen.
2. **Add an appropriate biodispersant** (and antifoam if needed).
3. Maintain 10 ppm free residual halogen for 24 hours...
4. Drain the system...
5. Refill the system and repeat (the treatment)...
6. Inspect after the second drain-off.
7. **If a biofilm is evident, repeat the procedure.**
8. **When no biofilm is obvious**, mechanically clean the tower fill, tower supports, cell partitions, and sump."

Routine Treatment Continuous Application of Halogens:

... A **biodispersant/biodetergent** may aid in the penetration, removal, and dispersion of biofilm and often increases the efficacy of the biocide."

OSHA Technical Manual

Section III, Chapter 7. Legionnaires Disease

Clean-up Procedure

Clean and disinfect the entire cooling system including attached chillers and/or storage tanks (sumps) following the "Wisconsin (Emergency) Protocol", as follows:

1. "Shock" treat cooling tower water at 50 ppm free residual chlorine.
2. **Add dispersant.**
3. Maintain 10 ppm chlorine for 24 hours.
4. Drain system.
5. Refill and repeat steps a through d.
6. *Inspect system for visual evidence of biofilm.* If found, repeat steps a through d.

World Health Organizations:

Legionella and the Prevention of Legionellosis

Biofilms — control measures

To facilitate penetration of an antimicrobial into **biofilms** and sediments, use of a compatible and environmentally acceptable **dispersant** and/or detergent is strongly advised.

Call AMSA to learn more about using **AMSA BCP™ Chemistry** in an Effective Legionella Control Program!