



FMC is excited to offer a new technology for food safety. We believe the unique properties of FMC's High Retention System - HRS[®] II foam additive, is a step change in improvement over existing technology. A giant step forward in food safety designed to improve biocidal effectiveness, process efficiency and expand applications.

Many good sanitizers are available today and following label use directions is critical for effective sanitization. Sanitizing vertical and irregular surfaces, however, has always been problematic. Oftentimes, flooding techniques are used to ensure proper contact time for the sanitizer, but such techniques leave the applicator wondering whether or not all surfaces were sanitized. This practice may also lead to wasteful use of the sanitizer. By using HRS[®] II will reduce sanitizer usage by 20% - 30% based on increased efficacy.

HRS[®] II foam additive is a concentrated adjuvant designed to provide visual marking and to increase sanitizer retention time. HRS[®] II foam additive is used with FMC's VigorOx[®] Liquid Sanitizer & Disinfectant. This product may be applied to the outside of tanks, conveyor belts, processing equipment, walls, ceilings, drains, boot foamers, porous and irregular surfaces. Contact us about using HRS[®] II with FMC's peracetic acid products. Product may also be sold with a customer's private label upon FMC's approval.

Benefits of Using HRS[®] II

| Property | Quats | Hypochlorite | Iodophors | Acid/Anionics | VigorOx [®] & HRS [®] II System |
|--|-------|--------------|-----------|---------------|---|
| Effective on spores | NO | NO | NO | NO | YES |
| Adjustable foam | NO | NO | NO | YES | YES |
| Broad spectrum efficacy | NO | YES | YES | YES | YES |
| Organisms cannot build resistance | NO | NO | NO | NO | YES |
| Leaves no residue or stains | NO | YES | NO | YES | YES |
| Helps remove mineral scale | NO | NO | NO | YES | YES |
| Long surface contact time | NO | NO | NO | NO | YES |
| Stable foam | NO | NO | NO | NO | YES |
| Environmentally friendly | NO | NO | NO | YES | YES |
| High soil/high organic tolerance | NO | NO | NO | NO | YES |
| Hard water tolerant | YES | YES | NO | YES | YES |
| Low corrosion potential | YES | NO | NO | NO | YES |
| Sanitizer stability in dilute use solution | YES | NO | NO | YES | YES |
| Detergency | NO | NO | YES | YES | YES |
| Low odor/non-irritating | YES | NO | NO | NO | YES |

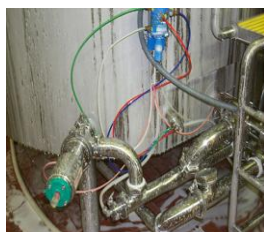
Used as directed, VigorOx[®] with HRS[®] II foam additive reduces bacterial contamination that cause product spoilage or decay. This application reduces contamination of the pathogenic bacteria *Aspergillus versicolor*, *Salmonella typhimurium*, *Listeria monocytogenes* and *Escherichia coli* 0157:H7. HRS[®] II is a two part system and the components are added to achieve end use dilution.

HRS[®] II @ 30 minutes

Quat @ 1 minute

HRS[®] II @ 30 minutes

Quat @ 1 minute



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