



HOW 2 Platforms, LLC

HOW2Platforms.com

952 237 5480



To Whom It May Concern

Subject: Bacterial Contamination Of Refillable Hand Soap Dispensers

To be clear, single use hand soap cartridges and bags are the most wasteful and environmentally damaging products in the commercial cleaning industry. Typically, these products are only 1-5% active, with 95-99% water. All this water taking up space in packaging and being shipped around the country is literally 90% of the cost of these products and creates ten times or more environmental damage. The single best thing any user of commercial cleaning products can do to support sustainability and cut costs is to eliminate these products.

The manufacturers of these products, attempting to discourage the use of refillable dispensers, have made claims about the "bulk" products either containing bacteria or the use of them creating opportunities for bacterial contamination.

While we have no interest in encouraging use of "bulk" hand soap, it is unlikely that these companies do not put preservatives in those products. Maybe a few marginal companies may be careless in this regard, most are reliable. This would eliminate these concerns.

As a former scientist of a major company making hand soap cartridges, I can attest that they use preservatives because they know the contamination can start in their plants, tanks and filling lines. Only a very foolish company would not.

My reason for writing this position paper is to address the HOW 2 Platforms H2 Hand Soap. This product is 80% active, so it eliminates the environmental problems with RTU hand soaps. This high activity will also kill any bacteria that encounters it.

However, we also put preservatives in the product that protects it in the concentrate, in the use solution, in the bottle and in the dispenser reservoir. There is absolutely no reason to be concerned about the use of H2 Hand Soap or the iClean Smart+ Platform.

In addition, the iClean Smart+ Platform is engineered to greatly reduce the possibility of contamination. Open this video and look for Value Proposition 5 [Value Propositions](#). This is about five minutes into the video. Of course, we would love you to watch the entire video and see how we can solve many of your problems.

With greater and greater concern about costs and environmental impact of products, it is understandable that these companies wish to scare people into continuing to use their products. The facts do **NOT** support the scare tactics.

I am a degreed scientist with 40+ years of experience in the commercial cleaning industry and 20 patents.

Respectfully submitted,

James Decker
Chief Technology Officer
HOW 2 Platforms