Skin Care System
For a High
Standard of Hygiene
and Care
Bulk Soap Compromises Hygiene

Research shows up to 1 in 4 bulk fill liquid soap dispensers contain dangerous levels of bacterial contamination.

Washing hands with soap and water is a universally accepted method to reduce bacteria on the hands. However, a recent study conducted by the University of Arizona, USA has revealed that bulk fill (or refillable) liquid soap dispensers can create a suitable environment for the growth of potentially disease causing microorganisms.

THE STUDY

The study’s objective was to determine the occurrence of heterotrophic (HPC) and coliform bacteria in refillable liquid hand soap dispensers. The samples were collected from public washrooms across the USA.

THE RESULTS

<table>
<thead>
<tr>
<th>TOTAL NUMBER OF SAMPLES FROM REFILLABLE SOAP DISPENSERS</th>
<th>NUMBER OF SAMPLES CONTAINING BACTERIA</th>
<th>BACTERIA DETECTED IN DISPENSERS THAT REQUIRED SEALED SOAP REPLACEMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>541 (428 sink areas/ 113 showers)</td>
<td>135 (25%)</td>
<td>0</td>
</tr>
</tbody>
</table>

- Of the 541 liquid soap samples taken from refillable dispensers, 135 (25%) contained high levels of bacteria.

- 65% of these bacteria were coliforms, which are the bacteria abundant in the faeces of warm-blooded animals.

- There were no bacteria found in dispensers that required sealed soap replacements.

Percentage from each location found to have contaminated dispensers

- Office: 39%
- Health Club: 33%
- Food Service: 18%
- Retail: 17%

THE CONCLUSION

- High levels of contamination were found in 25% of bulk liquid soap dispensers tested in the study. Because the samples represent a diverse cross section of geographical locales and sites, it was concluded that bulk filled liquid soap dispensers commonly found in the USA, are routinely contaminated with bacteria.

- The type and level of bacteria found in these systems have the potential to create a variety of health problems including respiratory, bloodstream, urinary tract and skin infections posing a risk to the health of users.

- Contamination was more likely to have occurred when the soap is open to repeated exposure to bacteria hence the packaging and dispensing method plays a significant role in product safety. There were no bacteria detected in dispensers that required sealed soap replacements.

SOURCES:
KLEENEX® Cassette Foam Soap is the premium hand cleanser for cost effective hygiene and care.

The innovative system delivers superior cost control, hygiene and easy maintenance while making handwashing a more pleasant experience for greater user satisfaction.

Benefits of KLEENEX® Cassette Foam Soap

**COST CONTROL**
- The prelathered foam feels substantial and stays in the palm of your hand, helping to reduce usage and waste.
- Each 1000ml refill provides up to 2500 hand washes for less servicing and lower cost in use.

**HYGIENE**
- Unlike bulk soap, each refill is hygienically sealed prior to use, preventing contamination.
- Fresh pump with each refill for greater hygiene.

**EASY MAINTENANCE**
- Each easy-to-load refill includes a new foam pump for easy reloading with no drips and no mess.

**USER SATISFACTION**
- A choice of mild formulations to clean and care for your hands.
- Easy to use single-handed push dispensing.
KLEENEX® Luxury Foam Skin Cleanser with Moisturisers
- Mild, all-purpose moisturising skin cleanser
- Enriched with emollients to protect skin from dryness irritation
- pH balanced resulting in healthy hands
- Pleasant Citrus Floral fragrance
- Ideal for public facilities including hospitality, office buildings, hospitals, restaurants, etc.

KLEENEX® Luxury Foam Hair & Body Wash
- Enriched, soothes and moisturises, leaves hair and skin feeling smooth, and soft
- Luxurious texture
- Ideal for sport clubs, fitness facilities, locker rooms, showers, spa, etc.

KLEENEX® Luxury Foam Fragrance and Dye Free Skin Cleanser
- No dye or fragrance, to affect food products
- Mild to skin, even with repeated use
- Luxurious texture
- Ideal for food handling industries, and laboratories

KLEENEX® Luxury Foam Antibacterial Skin Cleanser
- Effective against a wide range of germs, reducing risk of cross infection
- Mild formulation designed to encourage frequent handwashing
- 0.1% Benzalkonium Chloride (BZK)
- Ideal for public restrooms, healthcare, hospitality, and food processing industries

<table>
<thead>
<tr>
<th>KLEENEX® Cassette Foam Skin Cleanser</th>
<th>Description</th>
<th>Code No.</th>
<th>Fragrance</th>
<th>Colour</th>
<th>Case Contents</th>
<th>Refill Size</th>
<th>Dispensers</th>
</tr>
</thead>
<tbody>
<tr>
<td>KLEENEX® Luxury Foam Skin Cleanser</td>
<td>12552</td>
<td>Citrus Floral</td>
<td>Light Pink</td>
<td>6x</td>
<td>1,000ml</td>
<td>69480</td>
<td></td>
</tr>
<tr>
<td>with Moisturisers</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>KLEENEX® Luxury Foam Fragrance and</td>
<td>12565</td>
<td>Fragrance Free</td>
<td>Clear</td>
<td>6x</td>
<td>1,000ml</td>
<td>69480</td>
<td></td>
</tr>
<tr>
<td>Dye Free Skin Cleanser</td>
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<td></td>
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<td></td>
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<tr>
<td>KLEENEX® Luxury Foam Hair &amp; Body</td>
<td>11553</td>
<td>Floral</td>
<td>Light Blue</td>
<td>6x</td>
<td>1,000ml</td>
<td>69480</td>
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</tr>
<tr>
<td>Wash</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KLEENEX® Luxury Foam Antibacterial</td>
<td>11554</td>
<td>Fresh</td>
<td>Clear</td>
<td>6x</td>
<td>1,000ml</td>
<td>69480</td>
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<tr>
<td>Skin Cleanser</td>
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</table>

<table>
<thead>
<tr>
<th>DISPENSER</th>
<th>Description</th>
<th>Code No.</th>
<th>Colour</th>
<th>Case Contents</th>
<th>Dimensions(h x w x d)</th>
</tr>
</thead>
<tbody>
<tr>
<td>KIMBERLY-CLARK PROFESSIONAL*</td>
<td>69480</td>
<td>PearlWhite</td>
<td>1x</td>
<td>23.5 x 11.6 x 11.4 cm</td>
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<tr>
<td>Aquarius® Cassette Skincare Dispenser - 1,000mL</td>
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</tr>
</tbody>
</table>

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