

# DRAIN CLEANERS

## Liquid Scrub, Biozyme EX3

Galley drains in commercial aircraft are routinely used for disposal of an assortment of beverages including coffee, milk, juice and carbonated drinks. Sugars found in most of these beverages serve as a food source for common bacteria and microbes that convert the sugars into cellulosic polymer compounds. These cellulosic polymers attach to drain screens, valves and lines, leading to malodors and ultimately resulting in partial or complete blockage.

Celeste has developed two alternatives - with very different chemistries - to help eliminate clogs, prevent malodors, and offer longer term maintenance and odor control.

### Liquid Scrub

Celeste's Liquid Scrub Galley Drain Cleaner is based on state-of-the-art oxygenated technology and is uniquely designed around the soil matrix typically found in galley drain clogs (food, minor particulate matter, biological films). It is safe, mild and essentially non-corrosive. Being heavier than water, it effectively flows to the clog location and begins its cleaning action. Its combination of specialty surfactants and oxygen micro-bubbles creates an outstanding cleaner that breaks clogs and disperses difficult soils. The use of chemical oxidation results in a drain cleaner that:

- Stops soil particle agglomeration
- Minimizes re-deposition of soil
- Breaks existing drain-plugs
- Minimizes the chance for plugging
- Eliminates odor causing compounds

### Biozyme EX3

Biozyme EX3 is a biochemical cleaner and deodorizer that contains a myriad of selective, environmentally friendly spores that consume odor causing organic material. This enzymatic action is a perfect complement to Liquid Scrub for longer term odor control of galley drains.

It is also the ideal product for daily maintenance of the Gray Water Interface Valves (GWIVs) installed in B787 aircraft. Just 2-3 oz of Biozyme EX3 poured down each sink during each RON clean will help reduce organic buildup and prevent odors.



### Test References

Not applicable

### Celeste PN:

LS-5000/A series (Liquid Scrub)

LS-7200 series (Biozyme EX3)

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## DRAIN CLEANERS · Recommended Usage

APPLICATION	PRODUCT	PROCEDURE
BLOCKED OR NEARLY BLOCKED LINES	LIQUID SCRUB	<p><b>Step 1:</b> Pour two or three 5 ounce (150 ml) bottles of Liquid Scrub down the plugged drain and allow to work for 2 - 4 hours.</p> <p><b>Step 2:</b> Although not expected, mechanical removal of difficult plugs may be required.</p> <p><b>Step 3:</b> After the plug clears, resume routine preventive maintenance.</p>
ODOR CONTROL AND DRAIN MAINTENANCE	BIOZYME EX3	<p><b>METHOD 1 - Repeat weekly or bi-weekly</b></p> <p><b>Step 1:</b> Pour 6 -12 oz (175 -350 ml) into drain and allow to soak for 10 minutes.</p> <p><b>Step 2:</b> Do not flush as this will wash away the actives that feed on the odor causing bacteria.</p> <p><b>METHOD 2 - Repeat weekly or bi-weekly</b></p> <p><b>Step 1:</b> Cap galley and lavatory drain lines.</p> <p><b>Step 2:</b> Dilute 1 quart (1 liter) of Biozyme EX3 with 6½ gallons (25 liters) of WARM water.</p> <p><b>Step 3:</b> Pour diluted solution into drain until it fills to the top and let soak for 3 hours.</p> <p><b>Step 4:</b> Drain. Do not flush as this will wash away the actives that feed on the odor causing bacteria.</p>
ROUTINE PREVENTIVE MAINTENANCE	LIQUID SCRUB	<p><b>Step 1:</b> At the end of day's flight schedule, add 5 ounces (150 ml - one bottle) of Liquid Scrub to each galley drain and allow to sit for 1 hour.</p> <p><b>Step 2:</b> Rinse with water.</p> <p><b>Step 3:</b> Use once a week to maintain odor free, clean lines.</p>
GWIV	BIOZYME EX3	<p><b>Step 1:</b> Pour 2-3 oz down each sink daily and allow to work.</p>
COMPANION PRODUCTS		Interior Cleaner Complete, Sani-Cide Disinfectant, Sani-Cide FSC



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## DRAIN CLEANERS · FAQs

**Q:** Which product is the better of the two – Liquid Scrub or Biozyme EX3?

**A:** The two chemistries are very different and so they have different strengths. Liquid Scrub tends to be better at removing clogs, while Biozyme EX3 is better for long term malodor control and maintenance of drains.

**Q:** Do either of the products provide for residual protective activity?

**A:** Yes. The enzymes in Biozyme EX3 work for an extended period of time to control odors and help prevent clogs from occurring.