

TECHNICAL DATA SHEET

UNBLOCK-S

Pipe and Tank Cleaner

Code 5120

DESCRIPTION

During typical daily aircraft operations, toilets accumulate solid and liquid waste, resulting in the formation of limescale, calcium and other deposits within the system. Unblock-S has been expertly crafted to address these accumulations and aid in the upkeep of a fully operational toilet system, thereby substantially diminishing the risk of Aircraft on Ground (AOG) incidents caused by waste line blockages.

FEATURES & BENEFITS

- Safely and effectively removes scale from aircraft toilet systems with a biodegradable, fast-acting formula through periodic flushing.
- Thickened formulation enhances its ability to cling to vertical surfaces effectively and preventing scale buildup.
- Safe on polycarbonate, rubber, sealant, tape, as well as most plastics and paints.
- Readily biodegradable.

APPROVALS

- AMS 1640C
- BSS 7432

APPLICATION

Callington's Unblock-S is suitable for both vacuum and re-circulating toilets. It is powerful enough for deep soaks during engineering checks and can also be used diluted in a regular cleaning cycle.

Note: **Crushed ice is not required** when using **Unblock-S**.

DIRECTION FOR USE

Frequency of treatment will depend upon waste line conditions, scheduling, and requirements for each airline. For routine / regular preventative maintenance we recommend treating at intervals of at least two weeks for all aircraft types. *1 US Quart (946mL) of product per toilet is recommended for narrow-bodied aircraft and 2 US Quarts (1.89L) per toilet for wide-bodied aircraft.*

ROUTINE / REGULAR PREVENTATIVE MAINTENANCE FOR VACUUM TOILET LINES

For vacuum toilets:

1. Start the process at the most forward lavatory by putting the required amount (1 US Quart / 946mL or 2 US Quarts / 1.89L) of **Unblock-S** down each toilet.



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- Flush the toilet as many times as needed (generally 1-2x) to remove the product from the toilet bowl and disperse the **Unblock-S** into the pipe system.
- Complete this procedure for all toilets on the aircraft.
- Results will be improved the longer the cleaner stays in the waste line. Recommend allowing the cleaning solution to remain in the system for 2-4 hours.
- No additional flushing should be required until the next passenger's use of the lavatory, as **Unblock-S** is safe for long term exposure.
- Drain and service the waste tank after all toilets have been treated.

Re-circulating toilets / waste holding tank: Use **Unblock-S** at 1:1 (50%) dilution with clean water.

- Make sure that each toilet unit has been emptied and flushed clean with water to remove any waste contamination.
- Charge the waste tank with **Unblock-S** diluted 1:1 with water until level with the flapper valve.
- Complete this procedure for all toilets on both sides of the aircraft.
- Allow cleaning solution to remain in the system as long as possible (generally around 7-8 hours) and periodically flush at hourly intervals to re-circulate the cleaner.
- When the cleaning operation is complete, drain and rinse holding tanks with clean water or **Callington's Bioclean^{360SC}** to remove **Unblock-S** before adding a fresh batch of **Callington's Bioclean^{360SC}**.

REMEDIATION / DEEP CLEAN FOR TOILET LINES

Vacuum toilet systems:

- Pre-treat by pouring 1 US Quart (946mL) of toilet deodorant such as **Callington's Bioclean^{360SC}** diluted at 1:99 (1%) into each toilet and flush to minimize the malodor from the vacuum lines.
- Unblock-S** can be used in conjunction with Recirculation Cleaning Tool/Equipment operated by the Airlines/MROs during heavy maintenance checks.
- Charge the chemical into the aircraft vacuum waste lines in accordance with the instructions in the User's Manual of the Cleaning Tool/Equipment to achieve maximum performance.
- At the end of the cleaning process, discharge the used chemical and dispose of it in accordance with local regulatory requirements for chemical disposal. For more information consult the product SDS.

ORDERING INFORMATION

Code	Product Description	Packaging	Units per Case	Cases / Pallet	Units / Pallet
5120/42/AMS	Unblock-S Pipe and Tank Cleaner	1 Gallon	4	36	144

PHYSICAL PROPERTIES

- Appearance: Dark blue to green slightly viscous liquid
- Density at 20°C: 1.05 ± 0.03 g/mL
- pH: 1-2

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CONTAINS

Sulfamic Acid 1-10%.

DANGER

Causes serious eye damage. Causes skin irritation.

PRECAUTION

Wear protective gloves/protective clothing/ eye protection/face protection. Wash all exposed external body areas thoroughly after handling.

FIRST AID

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Immediately call a Poison Center/doctor/physician/first aider. Continue rinsing. IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

STORAGE & DISPOSAL

Keep in a cool, dry, well-ventilated area. Keep containers tightly closed. Keep away from food, drink, and animal feeding stuffs. Keep only in the original container. Dispose of contents/container to authorized hazardous or special waste collection point in accordance with any local regulation.

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