

TECHNICAL DATA SHEET

UNBLOCK-S

Product Code 5120

Aircraft Toilet Pipe and Tank Descaling Cleaner

DESCRIPTION

Unblock-S efficiently removes scale deposits and prevents scale buildup in aircraft toilets, serving as both a preventive maintenance measure and a powerful cleaning tool during heavy maintenance checks. It can be used for soaking or recirculation cleaning by Airlines/MROs, ensuring smooth operations and reducing the risk of Aircraft on Ground (AOG) incidents.

FEATURES & BENEFITS

- Safely and effectively removes scale from aircraft toilet systems with 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.

CONFORMS TO

- ✓ AMS 1640
- ✓ 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**.

DIRECTIONS 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.

1L of product per toilet is recommended for narrow-bodied aircraft and 2L per toilet for wide-bodied aircraft.

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ROUTINE / REGULAR PREVENTATIVE MAINTENANCE FOR VACUUM TOILET LINES

Vacuum Toilet Systems:

1. Start the cleaning process at the most forward lavatory by putting the required amount (1L or 2L) of **Unblock-S** down each toilet.
2. Flush the toilet as many times as needed (generally twice) to remove the product from the toilet bowl and disperse the **Unblock-S** into the pipe system.
3. Complete this procedure for all toilets on the aircraft.
4. Results will be improved the longer the cleaner stays in the waste line. No additional flushing should be required until the next passenger's use of the lavatory, as **Unblock-S** is safe for long term exposure.
5. Drain and service the waste tank after all the toilets have been treated.

Re-circulating Waste Holding Tank: Use **Unblock-S** at 1:1 (50%) dilution with clean water.

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

REMEDIATION / DEEP CLEAN FOR TOILET LINES

Vacuum Toilet Systems:

1. Pre-treat by pouring 1 litre of toilet deodorant such as **Callington's Bioclean^{360SC}** diluted at 1:640 into each toilet and flush to minimize the malodour from the vacuum lines.
2. **Unblock-S** can be used in conjunction with the Recirculation Cleaning Tool/Equipment operated by the Airlines/MROs during heavy maintenance checks.
3. 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.
4. At the end of the cleaning process, discharge the used chemical and dispose of it in accordance with the local regulatory requirements for chemical disposal. For more information consult the product SDS.

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PHYSICAL PROPERTIES

Appearance: Dark blue to slightly green liquid (*Pink in EU*)
Density at 20°C: $1.05 \pm 0.03\text{g/mL}$
pH: 1 – 2

ORDERING INFORMATION

Product Code	Packaging
5120/42	5 litres
5120/51	20 litres
5120/64	200 litres

CONTAINS

Sulfamic Acid 1-10%, p-tert-octylphenol ethoxylate 1-2%.

PRECAUTION

May cause skin irritation. May cause serious eye irritation. Harmful to aquatic life, with a long-lasting effect.

FIRST AID

IF IN SKIN: Wash with plenty of water/soap and water. If skin irritation occurs, get medical advice.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE/doctor/physician.

STORAGE & DISPOSAL

Keep only in the original container in a cool, well-ventilated place.

Dispose of any leftover product and its packaging in accordance with local waste disposal regulations.

WARRANTY – All statements, information and data presented herein are believed to be accurate and reliable but are not to be taken as a guarantee, expressed or implied, for which seller assumes legal responsibility and they are offered solely for your consideration, investigation and verification. Statements or suggestions concerning possible use of this product are made without representation or warranty that any such use is free of patent infringement and are not recommendations to infringe on any patent. Created 29 May 2023 Modified 14th December 2023 Date Printed 6/05/2024 12:16 PM