

## Honey Bee™ 60 TNP

**Honey Bee™ 60 TNP** is an acidic liquid cleaner developed for removal of hard water scale and accumulated waste materials from vacuum toilet systems in aircraft.

### Conforms To

- Airbus
  - AMM Task 38-31-00
  - CML 869900
  - CML Material Reference 08AHC1
- Boeing
  - Boeing AMM (All Fleets)
- B/E Aerospace
  - 25-33-21

### Benefits

- Effectively removes hard water scale and stains from stainless steel lavatory components, titanium waste lines and waste holding tanks.
- Approved for use with the Cee-Bee® Vacuum Cleaning Kit.
- Allows for in-place cleaning, eliminating the need to remove toilet systems.
- Can be applied directly to scale deposits for local cleaning.
- Safe on stainless steel, titanium, most plastics and good quality paint.
- Surfactants biodegradable
- Regular cleaning with Honey Bee™ 60 TNP will prevent waste line clogs and ensure reliable operation of the vacuum lavatory system.

### Properties

- Clear to whitish liquid

### Notes Prior to Handling

Before using your Cee-Bee® products, all safety and operating instructions should be read and understood. If you have any questions, please contact your Cee-Bee® representative before proceeding.

## Use Procedure

### For Vacuum Toilet System Cleaning Using Cee-Bee® Cleaning Kit

1. Refer to Airbus Aircraft Maintenance Manual, Task 38-31-00, or appropriate Boeing AMM.
2. Follow procedures described in Cee-Bee® Cleaning Kit Manual.
3. Procedures include:
  - a. Connecting all hoses and adapters.
  - b. Checking the system for leaks.
  - c. Testing recirculation with water and emptying water.
  - d. Recirculation with Honey Bee™ 60 TNP using vacuum (negative) pressure.
  - e. Emptying system of Honey Bee™ 60 TNP; including hoses, pipes, and reservoir.
4. **Note:** Be sure to follow explicit instructions from Cleaning Kit Manual. Any questions should be referred to your Cee-Bee® Aviation representative.

### Cleaning Recirculating Toilet Systems

1. Drain lavatory holding tanks and flush with clean water or lavatory deodorant to remove any remaining paper and waste contamination.
2. Pump Honey Bee™ 60 TNP, full-strength or diluted with up to 1-part water, from a service vehicle into the toilet holding tanks to 1 inch (2.5 cm) above the toilet “flapper” valves. Honey Bee™ 60 TNP may also be poured directly into toilets.
  - a. **Note:** To prevent “overservicing” of lavatory holding tanks, the fluid level inside the toilet bowl should be monitored during the filling process.
3. Clean flush ring with an approved brush or tool to remove debris. Mechanical removal is helpful because contact time with the flush ring is limited to when the toilet flush motor is operating.
4. Allow cleaner to remain in the tank as long as possible and periodically flush (hourly, if possible) toilets to re-circulate the cleaner.
5. Drain the cleaner and thoroughly rinse holding tanks with water or lavatory deodorant before adding a fresh charge of deodorant.

### Shop Cleaning of Toilet System Parts

1. Charge a #316 stainless steel or acid-resistant plastic tank with Honey Bee™ 60 TNP as received.
2. Completely immerse parts in Honey Bee™ 60 TNP at ambient temperature and allow to dwell until deposits have been loosened. Some agitation of the solution will speed removal.
3. When the cleaning is complete, remove the parts and allow excess solution to drain back into the tank.
4. Rinse parts thoroughly with water using spray or immersion method.

## Use Procedure (continued)

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### General Descaling

1. Use Honey Bee™ 60 TNP as received.
2. Ensure all areas to be descaled are immersed in Honey Bee™ 60 TNP.
3. Rinse all parts after descaling.

## Safety, Handling, and Precautions

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- Honey Bee™ 60 TNP is not safe for use on high strength steel, zinc or magnesium.
- Storage and handling equipment should be constructed of 316 stainless or acid resistant plastic materials, such as fiberglass, polypropylene or polyethylene.
- Acid material can cause burns. Avoid eye and skin contact. Chemical goggles or face shield and chemical-resistant gloves are recommended.
- In case of accidental contact, flush area thoroughly with water. If irritation persists, seek medical attention.
- Do not take internally.

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