

CHEMCROBE™ 751

Bioaugmentation for wastewater treatment

Application

- Wastewater treatment plant
- Oil refineries

Features and benefits

- Quickly removes excess ammonia in wastewater systems
- Can restore nitrifier populations
- Improves compliance performance

CHEMCROBE™ 751 bacteria-in-liquid concentrate is a liquid blend of the nitrifying strains Nitrosomonas and Nitrobacter bacteria. It is designed to aid in ammonia removal in industrial wastewater plants and in nitrification enhancement in municipal waste systems.

Feed System

Mutant bacteria and enzymes perform within a pH range of 6.5 to 8.5 with the optimum for nitrification being between 7.0 and 8.0. There are several conditions which must be met before nitrification can be successful. Key Influent parameters are:

Alkalinity > 7.5 mg CaCO₃/l per mg NH₃/l

Temperature 59°F - 95°F (15°C - 35°C)

Dissolved Oxygen 2 mg/l or more

The product should be added to 1 gallon of chlorine free, room temperature tap water per unit required. The air compressor should be turned on and air bubbled through the solution. Continue aeration for two hours to fully reactivate the nitrifying populations.

Do not aerate for more than 4 hours prior to addition. Add directly to the aeration basin in activated sludge systems.

In Rotating Biological Contractors, add to the nitrification (last) stage.

To add product to a trickling filter, add to influent if no recirculation is employed or to the recirculation pump if recirculation is employed.

Application rate should be determined by your Baker Hughes representative.

Safety and Handling

Storage in a cool, dry location is recommended. Store at temperatures between 65° - 80°F. Inhalation and direct skin contact should be avoided.

Dust protection for eyes, nose and mouth should be used. After handling, wash hands thoroughly with warm soapy water.

Chemcrobe 751 bacteria is shipped in 25 lb (11.3 kg) or 100 lb (45.4 kg) poly-lined fiber drums or plastic drums.

Typical Properties

General appearance	Pink brown turbid liquid
pH	5 - 9.5
Odour	Non-specific
Activity	500 mg -N/kg/hr (NH ₄ -N oxidation rate)