

# Wastewater Treatment Microbes

## GIM 1008

### General Industrial Microbes



**GIM 1008** encompasses a wide variety of organic degradation capabilities to target a variety of industrial wastes. The microbial blend incorporates strains capable of degrading fatty acids, surfactants, hydrocarbons, phenolic compounds, ketones and recalcitrant organics.

The microbial activity of **GIM 1008** is recommended to enhance BOD, COD, and TOC removal associated with industrial wastewaters.

**GIM 1008** is recommended when:

- A broad-based spectrum of activity for wastes is desired or needed.
- The goal is recalcitrant COD reduction.
- A full-scale application is desired as an alternative to lab testing on previously untested organic compounds.

Note: The waste composition may indicate that a different IFM product will provide the best benefits for waste application. Contact your IFM representative to determine the best product for your application.

#### Features

- Improves maximum rates of organic removal as measured by BOD, COD or TOC.
- Provides higher growth and utilization rates in response to organic overloads for greater stability.
- Improves biodegradation of petroleum hydrocarbons, solvents, tannery wastes, mineral oils, pharmaceuticals, and surfactants.
- Reduces nitrifier toxicity to allow initiation and maintenance of high rates of biological ammonia removal.
- Provides the ability to degrade a wide spectrum of recalcitrant industrial chemicals.

#### Enhanced Capabilities

- Ability to degrade variety of aliphatic and aromatic hydrocarbons, fatty acids, proteins, and lipids.
- Enhanced degradation of recalcitrant organics, surfactants, ketones, and phenols.
- Rapid response to uncharacterized upsets with a broad-spectrum product.

## Applications

**GIM 1008** is recommended for improved biodegradation of wastewaters from the following industries when a rapid response to undefined upsets is needed:

- Petroleum and natural gas refining and petrochemical manufacturing, including many amine bearing organics.
- Steel making and coking operations.
- Food processing including dairies, fruit processing, distilleries, tanneries, poultry processing, vegetable oil recovery, corn sweetener and starch manufacture.
- Specialty chemical manufacturing such as paints, pigments, phenolic resins, rubber, styrene, lubricants, and surfactants.

## General Benefits

- Improved waste system stability and reduced frequency and severity of upsets.
- Reduced effluent organics.
- Enhanced flocculation in activated sludge.
- Higher levels and diversity of protozoa.
- Rapid recovery from load-related and toxic upsets.
- Targeted removal of specific organics.
- Reduced impact of production increases or changes in product mix on effluent quality.
- Reduced municipal surcharges.
- More rapid new plant, seasonal, or post-maintenance start up.

## Product Characteristics

Bacteria Count	5 billion/gram
Stability	Max loss of 1.0 log/yr when stored under recommended conditions
Appearance	Free-flowing tan powder
Odor	Yeast-like

## Product Preparation

**GIM 1008** may be added directly to the waste influent stream or aerated basin. For toxic wastes or short retention times, re-hydration for 30-90 minutes prior to addition to a system is recommended using 2 gallons of water per pound of GIM 1009. For best results, the make-up water temperature should be between 21°- 31°C (70°- 90°F). For convenience, **GIM 1008** is available in pre-measured water-soluble Solupaks.

## Optimum Conditions for Use

The bacteria in **GIM 1008** perform within a pH range of 6.0 to 9.0, with optimum activity near pH 7.0. Temperature affects the growth rate of the bacterial population, and activity improves with increasing temperature up to 40°C (104°F). No appreciable activity can be expected below 5°C (40°F).

## Available Packaging

- 25 pound pail
- 50 pound drum
- 1 pound Solupak

## Storage and Handling

Store in a cool, dry place. Recommended storage temperature of 1°C-23°C (34°F-73°F). Avoid excessive inhalation. Avoid eye contact. Wash hands thoroughly with warm, soapy water after handling.

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