

TECHNICAL DATA SHEET

Septic Medic

1. Product Identification

Product name: Septic Medic

Product type: Aqueous suspension of beneficial bacteria (BSL-1)

Application: Septic tanks, cesspools, small wastewater systems (odor control and organic solids digestion support)

Manufacturer: TLC Products, Inc., 26100 1st Street, Westlake, OH 44145 USA

Contact: +1-216-472-3030 | johnmwong@tlc-products.com

2. Product Description

Biological treatment product containing beneficial bacteria in an aqueous carrier.

Intended to support biological breakdown of organic waste, reduce sludge discharge to the drainfield, and reduce odor conditions associated with septic accumulation.

3. Functional Composition (Typical)

Active: Beneficial bacteria (non-hazardous; non-pathogenic; BSL-1)

Carrier: Water

Typical composition (by weight): < 4% beneficial bacteria; > 96% water (typical)

4. Typical Technical Characteristics

Physical form: Liquid suspension

Appearance / color: Amber suspension; amber to reddish-brown

Odor: Musty; may include sulfide ("rotten egg") notes

pH: 7.0–8.5

Specific gravity: 1.010–1.020

Water compatibility: Fully water miscible

Viscosity: Similar to water (typical)

5. Dosage (Field Guideline)

Maintenance dose: 8 fl oz per 1,000-gallon septic tank per month

= 237 mL per 3,785 L per month

= ~62 ppm (vol/vol basis)

6. Performance Data (Controlled Lab Study)

Study duration: 90 days

Design: Test vs Control, identical systems, shared synthetic wastewater feed

System configuration (each train):

- Stage 1: 10 gallons (settling/digestion)
- Stage 2: 10 gallons (settling/clarification)
- Collection/Sampling stage: refrigerated effluent hold (for analysis)

Dose applied in lab: 1.125 mL/week into a 20-gallon septic train (~5 mL/month)
= ~66 ppm/month (vol/vol basis), aligned with the field maintenance dose.

Measured endpoints (daily effluent monitoring):

- Total Suspended Solids (TSS; “sludge”)
- Fats-Oil-Grease (FOG)

Outcomes (average over full study):

- **~28% lower sludge (TSS) discharged** vs control (treated train improved progressively over time)
- **~62% lower FOG discharged** vs control

7. Field Experience (Representative Testimonials)

Reported outcomes include:

- Elimination of persistent sulfide (“rotten egg”) odors after initiating regular use
- High repeat purchasing by septic service professionals (reported ~200 cases/year by one operator)
- Strong anecdotal performance on grease/fats and sludge digestion in challenging systems

8. Storage

Storage conditions: Closed container; cool, dry storage **below 100°F (37.8°C)**

General handling: Standard hygiene practices; avoid eye contact; wash hands after use.

9. Transport / Regulatory (General)

Transport: Not regulated as dangerous goods (typical)

Hazard classification: Not classified as hazardous as supplied (typical)

10. Notes / Disclaimer

Typical properties and performance data are provided for technical guidance. Actual results depend on organic loading, temperature, hydraulic loading, system design/condition, and adherence to dosing program.