

NOFOAM BIO100



PRODUCT APPLICATION GUIDE



- NoFoam BIO100 is a 100% active synthetic foam control additive designed to regulate and eliminate biologically-generated foam in activated sludge, BNR/ENR, and MBR wastewater treatment processes. NoFoam BIO100 also effectively controls foam and frothing in aerobic or anaerobic sludge digestion. It does not contain mineral oil, silicones, nitrogen, or phosphorous-based materials, nor does it inhibit the removal of nitrogen or phosphorous in BNR/ENR processes.



RECOMMENDED USAGE LEVELS



- For aeration basins, ChemREADY recommends the addition of 0.5 to 10 ppm of NoFoam BIO100 based on the daily flow rate of the system (influent + R.A.S.). The product may be fed on a continuous basis or as a batch process. It should be added as received—do not dilute with water. NoFoam BIO100 should be added to the primary effluent prior to aeration or into the R.A.S. line.
- If the foam blanket is greater than twelve inches, the addition rate of NoFoam BIO100 may need to be increased to 10–30 ppm until the foam blanket is reduced to 3 to 4 inches, after which 0.5 to 5 ppm is typically sufficient for foam control.
- In sludge digestion, NoFoam BIO100 is most effective when added within the heat-exchange loop for both floating and fixed-cover configurations. Alternatively, it may be added at the perimeter of the digester for floating-cover units if the sludge receives adequate circulation. ChemREADY recommends a dosage of 1 to 5 gallons of NoFoam BIO100 per million gallons of digester volume. A higher dose may be required initially, with a decrease in the feed rate to a maintenance concentration once foam is returned to acceptable levels.
- In secondary clarifiers, NoFoam BIO100 may be added in the post-aeration effluent. However, performance improves when it is added to the aeration process to minimize foam generation prior to transferring wastewater to the clarifiers.

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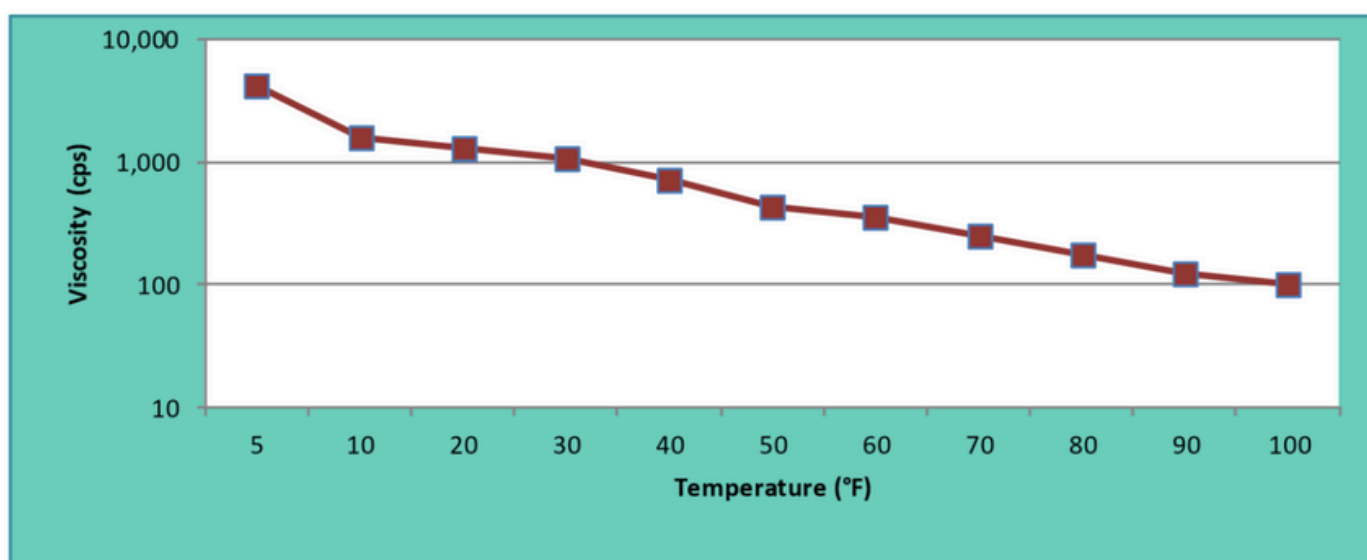
TYPICAL PROPERTIES

- Appearance: Tan to amber translucent liquid
- Weight per Gallon: 8.05 pounds
- Pour Point: >10°F
- Flash Point: >400°F
- Water Solubility: Dispersable

VISCOSITY PROFILE:

Temperature (°F)	Product Appearance	Viscosity (cps)*
5	Hazy - light amber viscous liquid	4175
10	Hazy - light amber viscous liquid	1600
20	Hazy - light amber viscous liquid	1300
30	Hazy - light amber liquid	1050
40	Hazy - light amber liquid	725
50	Clear light amber liquid	425
60	Clear light amber liquid	350
70	Clear light amber liquid	250
80	Clear light amber liquid	175
90	Clear light amber liquid	125
100	Clear light amber liquid	100

*Used spindle #3 at 20 rpm unless otherwise specified



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REGULATORY INFORMATION

- NoFoam Bio100 is comprised of ingredients listed on the U.S. TSCA Inventory, Canada (DSL), Europe (EINECS), Korea (KECL), Philippines (PICCS), and Switzerland (CHEMO). NoFoam Bio100 is compliant with pollutant limitations found in Table 1 of 40 CFR 503.13 for ceiling concentrations and Table 3 of 40 CFR 503.13 for pollutant concentrations, as applicable to Class A biosolids regulated by 40 CFR 503.

AQUATIC TOXICITY TESTING (48 to 96 hr acute toxicity)

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STORAGE AND HANDLING

- This product will not separate upon storage and does not require stirring prior to use. Shelf life of this product is two years from the date of manufacture. Protect from moisture and foreign materials. Do not reuse the package. Prolonged or repeated contact may cause eye or skin irritation. Do not take internally.

SHIPPING

- NoFoam Bio100 is a non-hazardous product and is not regulated by the Department of Transportation. NoFoam Bio100 is shipped in bulk, 275-gallon returnable totes, 55-gallon returnable drums, and 5-gallon tight-head pails.

PRODUCT SAFETY INFORMATION

- Although no special precautions are required, anyone procuring, using, or disposing of this product or its containers must be familiar with the appropriate safety and handling precautions. Such information may be found in the Material Safety Data Sheets for this product. In the event of an emergency with this product, call the emergency 24-hour Chemtrec hotline at 1-800-424-9300.

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