

# MMET, Inc.

## Middleton Microbiological & Environmental Testing Laboratory

3889 N. Hwy 65, Ozark, MO 65721

417-581-MMET(6638), Toll Free 877-581-MMET, Fax 417-582-0269

email: mmetinc@classicnet.net

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### Laboratory Report

Report Number: M7536

Report Date: October 13, 2003

Lab Number: 031174

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Customer: Additive Technologies, LLC.  
1701 Wynkoop St., Suite 230  
Denver, CO 80202  
303-825-3103  
Fax: 303-265-9351

Project Manager: Dick Giebe  
Project Name: BNSF Cleaner Evaluation  
of Locomotive Cleaner

Sample Matrix: conc. cleaner

Sample ID: CleanSafe

Date Received: 9-29-03

Purchase Order #:

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Analysis Requested: BNSF product evaluation for Exterior Locomotive cleaner.  
Testing conducted according to BNSF policy.

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Parameter	4% conc.	8% conc.	Concentrate
Appearance			clear, colorless
Odor			mildly bitter
Specific Gravity			1.037
Flash point			> 205°F
pH	11.0	11.5	11.6
COD	4500 mg/L	9500 mg/L	129,000 mg/L
Solubility in Diesel Fuel	EBS*	EBS*	
Effect on Urethane Paint @ 77°F for 24 hours	no effect	no effect	no effect

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EBS (Emulsion Breaks and Separates in five minutes)

cc BNSF Tech R & D  
Georgianna Gideon  
1011 NE River Rd  
Topeka, KS 66616  
785-435-5678  
Fax 785-435-5670

Report Approved by:

  
Wayne A. Middleton, Pres., Lab Dir.