

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 Copley Dr., Diamond Bar, CA 91765-4182

MONITORING & ANALYSIS
REPORT OF LABORATORY ANALYSIS

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TO	Naveen Berry, Manager Area Sources	LABORATORY NO.	<u>1402820-01</u>
		FACILITY ID	<u>NA</u>
SAMPLE(S) DESCRIBED AS	Bio-Tuff Low VOC	DATE RECEIVED	<u>1/28/14</u>
		PROJECT/ ST NO/ RULE	<u>Clean Air Solvents</u>
SAMPLING LOCATION	Green Mountain Corporation 19301 S. Santa Fe Ave, Suite 116 Rancho Dominguez, CA 90221	REQUESTED BY	<u>Rizaldy Calungcagin</u>

ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS AND RESULTS
Clean Air Solvent (CAS) eligibility determined by Method 313-91.

Sample	Manufacturer's Recommended Dilution
32 oz. Container	None
VOHAPS, ODC, GWC, wt%	<0.1
MIR	< Toluene
VOC g/L mtl (no dilution)	11
VP mm (composite)	<5
Water, wt%	72.2
Density, g/mL	1.06

Product meets CAS criteria.

Date Approved: 6/13/14

Approved By: 

Rudy Eden, Senior Manager
Laboratory Services
(909) 396-2391

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SAMPLE(S) DESCRIBED AS
Bio-Tuff Low VOC

LABORATORY NO. 1402820-01

REQUESTED BY Rizaldy Calungcagin

Volatile Organic Compounds (VOC) by M313-91
Quality Control Tests and Results Matrix

CSV RECOVERIES

STD	prep (g/L)	14MFN0527B130							
		-04.D		-06.D		-24.D		-26.D	
		meas (g/L)	% rec	meas (g/L)	% rec	meas (g/L)	% rec	meas (g/L)	% rec
eococ	5.00	4.84	96.9	4.68	93.6	4.75	95.1	4.82	96.4
DIIBA	1.03	0.92	88.9	0.94	91.1	0.91	87.7	0.92	88.6
Triglyme	1.03	1.00	97.3	1.01	98.3	0.97	94.2	0.98	95.0
heptane	1.05	1.01	97.1	1.01	96.7	1.02	97.8	1.02	97.6
IPA	1.05	1.00	95.4	1.00	94.9	1.01	96.3	1.01	96.2

QC Comment: Low DIIBA recovery due to contamination in inlet liner

SURROGATE SPIKE RECOVERIES

SPIKE	prep (g/L)	14MFN0527B130			
		-16.D		-18.D	
		meas (g/L)	% rec	meas (g/L)	% rec
EOEOE	4.79	4.93	102.9	4.91	102.6

Date analyzed 05/28/2014
 VOC g/L mtl (M313-91) as received 10.6
 Density g/mL 1.1
 Non-Volatile, wt% (meas) 10.8
 Water, wt% (meas) 72.2
 VOC wt% (M313 meas) 1.0
 Water, wt% (calc) 88.2

CAL REFERENCE
 13MFN CAL B
 13BL2-001
 14BL1-001 & 10OV2-001
 14KF2-0226 & 14BL3-009
 Solvent THF
 Instrument MSN
 Inst. Meth. 13N1018B.M
 Balance 14BL5-005

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Volatile Organic Compounds (VOC) by M313-91
Quality Control Tests and Results Matrix

CCV RECOVERIES

14MFN0527B130

STD	prep (g/L)	-08.D		-10.D		-20.D		-22.D	
		meas (g/L)	% rec						
EOEOE	5.16	4.89	94.7	4.93	95.4	4.82	93.3	4.73	91.5
Methyl Palmitate	0.61	0.60	98.5	0.59	97.4	0.55	90.8	0.57	93.9
TXIB	1.10	0.98	88.9	0.97	88.3	0.92	83.0	0.94	85.2
Amyl Butyrate	1.05	1.13	107.8	1.13	107.9	1.09	103.9	1.10	104.9
EGBE	1.06	1.13	106.0	1.13	106.0	1.09	102.4	1.09	103.2

QC Comment: TXIB recovery bias low, not present in sample



South Coast Air Quality Management District

21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 • www.aqmd.gov

July 1, 2014

Mr. John R. Schwartz
Green Mountain Corporation
19301 S. Santa Fe Avenue, Suite #116
Rancho Dominguez, CA 90221

Subject: Clean Air Solvent (CAS) Certification

Dear Mr. Schwartz:

CONGRATULATIONS

Your submitted product has successfully met all of the requirements for a Clean Air Solvent (CAS) Certificate from the South Coast Air Quality Management District (SCAQMD). The Certification will be valid for five (5) years from the date of issuance and may be renewed upon recertification by the SCAQMD. The following product will be classified as a CAS by the SCAQMD:

- **Bio-Tuff Low VOC**

This certification should not be represented as an endorsement of the products or as a representation as to its cleaning ability. The user should also be advised that there may be other options available for compliance with the requirements of the specific applicable SCAQMD rule or regulation.

Congratulations and our sincere thanks for your help in cleaning up the air! If you have any questions, please contact Rizaldy Calungcagin at (909) 396-2315 or at rcalungcagin@aqmd.gov.

Sincerely,

David De Boer
Program Supervisor
Area Sources

Attachments: