

CASE NARRATIVE

AN EVALUATION OF VOLATILE ORGANIC COMPOUND EMISSION LEVELS ASSOCIATED WITH INTEGRA BOOST 62% RH AND BOVEDA 62% RH 2 WAY HUMIDITY CONTROL HUMECTANTS

January 26, 2017

Bonner Analytical Testing Company was retained by Desiccare Inc. to evaluate off gassing characteristics of their product Integra Boost 62% RH and a competitors product BOVEDA 62% RH 2 Way Control Humectant. The experiments were conducted January 25, 2017.

Experimental:

One Boveda 62% RH sachet and one Integra Boost 62% RH sachet was removed from its clear packaging and placed in separate five liter foil faced gas sampling bag equipped with a septum sampling port. The bags were then sealed. A third Control bag was treated in a similar manner Two hundred milliliters of outside air was introduced to each bag.

The bags were allowed to sit at room temperature for 6 hours prior to analysis.

The analytical procedure involved removing an aliquant of air (5.0cc) from each of the bags, and injecting the samples into a gas chromatograph equipped with an Ocean Instruments Eclipse purge and trap introductory system connected to an Agilent 6890 gas chromatograph with an Agilent 5973 mass selective detector.

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The method quantitation limit (MQL) was estimated to be 1.0 ug/l.

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Results:

Sample ID	Analyte	Concentration (ug/L)	Duplicate
Control	Acetone	ND	ND
Integra Boost 62% RH	Acetone	ND	ND
Boveda 62% RH	Acetone	9.8	9.35

ND = Non-Detect

Conclusion:

Boveda 62% RH 2-Way Humidity Control Humectant produces a significant amount of Acetone as a byproduct compared to Integra Boost 62% RH; which was Non-Detect (<1.0ug/l). Additionally, the Boveda product continued to off gas giving a concentration of 13.11 ug/l at 18 hours.

Certified By:

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