MOLECULOC'S SUMMARY OF TESTING PERFORMED BY AMRO ENVIRONMENTAL LAB CORP OF MOLECULOC SPILL CONTROL PRODUCT CONTAINING LIQUID HYDROCARBONS

Objective:
This test was done to determine the ability of the Moleculoc tm Spill Control Product, after being mixed with common hydrocarbon liquids, to meet the EPA's guidelines for non-hazardous solid waste disposal. Moleculoc contracted an independent testing laboratory, **AMRO Environmental Lab Corp** of Merrimack, NH, to perform the testing.

EPA General Guidelines:
In order to meet the EPA established criteria for disposal as non-hazardous solid waste, as well as comply with the regulatory standards of the individual states and those of solid waste landfill operators, the following tests were conducted to determine Moleculoc's level of performance and compliance with those specific guidelines.
The four characteristics used by the EPA to evaluate and identify hazardous waste substances are:

- Ignitability
- Corrosivity as pH
- Reactivity
- Toxicity

In addition, the Federal EPA has established a standard for remediation of hydrocarbon spills through the use of absorbent products, known universally as the "One Drop Rule". It states that under mechanical pressure, if a single drop of free flowing hydrocarbon can be extracted from a used absorbent, the material must be classified and disposed of as hazardous waste.

Product Tested:
Moleculoc Spill Control Granules; For reference two used Moleculoc samples were tested: A and C, C being tested at the maximum effective level of ability.

This naturally occurring inert mineral composition is EPA, OSHA and NIOSH listed as Amorphous Alumina Silicate, (an approved absorbent product as defined under the National Contingency Plan, and listed on the National Products List of approved absorbents.)
In both samples, Moleculoc granules were used to absorb the following combination of hydrocarbons in a balanced ratio of one part each:
SAE 40 Weight Motor Oil; Highway Grade Diesel Fuel; and Unleaded Gasoline.

These liquids are among the most common examples of free flowing hydrocarbons and represent a range of basic substances found in most other types of hydrocarbon products, and therefore valid as target subjects for this test.

Test Method:
The Moleculoc Spill Control Product sample was subjected to contamination through absorption of the three identified hydrocarbon liquids multiple times over a period of several days. This method was used to challenge and demonstrate the products unique strength and ability to be re-used multiple times as a significant cost savings benefit to the end user, while maintaining its trademark characteristic ability to effectively encapsulate and remove hydrocarbons from the environment and render them non-hazardous.

The used Moleculoc was analyzed using the Toxicity Characteristics Leaching Procedure (TCLP), an acid rain simulator.
This test best recreates the actual landfill environment, and any possible leaching that may occur under natural conditions.

Results:
Quantitative laboratory analysis confirms that the used Moleculoc Spill Control Product satisfactorily met the levels of compliance for the following criteria:

- Ignitability
- pH (Corrosivity)
- Reactivity (sulfide and cyanide)
- TCLP, Metals and Volatiles (Toxicity)

The used Moleculoc sample exhibited none of the hazardous waste characteristics outlined above at the conclusion of this test. AMRO's test report and experimental procedure is attached to this document.

Summary Statement:
When used as directed and in a manner consistent with its labeling, Moleculoc Spill Control Products meet the requirements established by the Federal Environmental Protection Agency, in accordance with the Federal Clean Water Act, for disposal in the non-hazardous solid waste stream.

Analytical Report Certification

Laboratory Name: AMRO Environmental Laboratories, **Project Number: 0911032**

Project Location: Moleculoc Testing

I, the undersigned, attest that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in the analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____ **Position:** Vice President, AMRO

Printed Name: Nancy Stewart **Date:** 12-18-09