



EMULSIONS  
CONTROL  
INC.

December 20, 2004

Simple Green  
15922 Pacific Coast Highway  
Huntington Harbor, CA 92649

Subject: **PERFORMANCE OF CLEANER "EXTREME SIMPLE GREEN"**

We have conducted elaborate tests on your cleaner "Extreme Simple Green", and we find it to be an excellent cleaner without creating a stable oil-in-water emulsion.

A typical cleaning solution was made in water and allowed to contact thoroughly with a marine motor oil.

After settling at room temperature, the rate and extent of oil release were monitored.

Percent oil recovery was as follows:

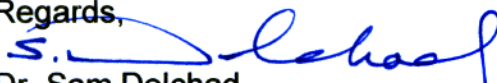
80% in 5 minutes, 86% in 15 minutes, 93% in 6 hours and almost 98% overnight.

The recovered oil was a mixture of fairly clean oil and some emulsified with water.

The deoiled wash water was yellow-orange, slightly hazy and likely to be acceptable for discharge in most locations.

In conclusion, I am very impressed with your "Extreme Simple Green Aircraft & Precision Cleaner". In nearly 20 years of evaluating degreaser/cleaners, this was the most outstanding, and could actually be called a "non-persistent" cleaner formulation.

Regards,

  
Dr. Sam Delchad  
Vice-president, Technology



## TEST PROTOCOL

Oil: Used marine oil containing a high level of carbon and other contaminants. Used oil was obtained from a boat repair business.

Extreme Simple Green Solution: Product received from Simple Green. Solution used for testing was a 20% solution: 1:4 (1 part Extreme Simple Green to 4 parts standard municipal tap water.)

Test Protocol (summary):

- 1) In a clean glass beaker that can hold approximately 128 ounces of fluid and is marked along at least one side with measure markings, mix together 12.8 ounces of Extreme Simple Green and 51.2 ounces of municipal tap water. (A 20% mixture.)
- 2) Slowly add oil to the mixture, gently stirring it into the fluid, and measuring how much oil is being added.
- 3) When the solution can no longer hold oil in emulsion (oil can be seen floating on the surface,) cease adding oil and record volume of oil added.
- 4) Repeat step #1 in a clean beaker.
- 5) Add  $\frac{1}{2}$  the amount of oil recorded in Step #3 to the mixture and stir in so that it is completely emulsified.
- 6) Check mixture at 1 minute, 5 minutes, 15 minutes, at 6 hours, and again at 12 hours, recording each time the amount of oil that has broken out of solution and is floating on the surface. Observe and record the condition of the remaining fluid for clarity, color, etc. Observe and record the condition of the demulsified oil for color and other indicators of emulsion rather than pure oil.