

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2004  
 DateRun: 11/01/2004  
 Experimenters: Jason Marshall  
 ClientType: General  
 ProjectNumber: Project #1  
 Substrates: Fiberglass  
 PartType: Coupon  
 Contaminants: Odor  
 Cleaning Methods:  
 Analytical Methods: Smell

Purpose: To evaluate odor neutralizing biobased products.

Experimental Procedure: Four products were selected from the lab's inventory of biobased products. The products were chosen based on vendor supplied information. A fifth product was included as the client's current odor neutralizing product. Three products were used at full strength and two were diluted to recommended concentrations (H2Orange2 at 1.6% and Super H2O2 at 8%). All products were used at room temperature.

Three soils were selected based on the amount of odor produced. Each soil/odor was applied to a coupon, one for each cleaning product to be tested. Initial odor was noted for strength of smell by two observers. An odor neutralizing product was sprayed two times onto the coupon. A second odor strength observation was made at this point. A third observation was made after 5 minutes and then a final observation was made at one hour. Each product was ranked separately by two observers against the other products.

**Soils Used**

- A - SSL Soil 3 (Hucker's soil)
- B - SSL Soil 4 (Kitchen soil)
- C - Castrol Moly Dee cutting fluid

Substrate: Fiberglass coupons

Observation Classifications: High  
 Medium/high  
 medium  
 medium/low where masked = medicine = medicine/perfume  
 low/medium where low/medicine  
 low  
 low/none  
 none

Results: All but one of the products tested worked as well as the current odor neutralizing product on the three soil/ odors tested in the laboratory setting. The table lists the observations made and the product rankings made by two observers. An average rank was taken from both the observers. A final overall average was then calculated from the three soil/odors and are listed in the second table.

Cleaner	Coupon #	Soil	Initial	5 min	60 min	Rank	Rank	Average
Eats It	17	B	masked	medicine/perfume smell	low medicine/perfume	4	1	2.5
SC Odor	15	B	low	none	none	2	3	2.5
Heavy Duty Odor	16	B	none	none	none	1	4	2.5
H2Orange2	32	B	medium	medium/low	medium/low	5	5	5
Super H2O2	35	B	low	low/none	low/none	3	2	2.5
Eats It	44	A	medicine	medium/low	medium/low	3	3	3
SC Odor	18	A	low/medium	low	low	2	2	2
Heavy Duty Odor	19	A	low/medium	low/none	none	1	1	1
H2Orange2	39	A	medium/high	medium/high	medium/high	5	4	4.5
	57	A		medium	medium	4	4	4

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Super H2O2			medium/ high					
Eats It	49	C	masked	medium/ low	low/ medium	4	4	4
SC Odor	47	C	low/ medium	low/ medium	low	2	3	2.5
Heavy Duty Odor	48	C	medium	medium/ low	low	5	1	3
H2Orange2	56	C	low/ medium	low/ medium	low	2	5	3.5
Super H2O2	58	C	low	low	low/none	1	2	1.5

Observations of non-treated coupon

Soil B	medium	medium	low/ medium
Soil A	high	medium	low/ medium
Soil C	high	high	medium

Overall Average for Odor Elimination

Cleaner	Overall Ave	Rank
Eats It	3.17	4
SC Odor	2.33	2
Heavy Duty Odor	2.17	1
H2Orange2	4.33	5
Super H2O2	2.67	3

Summary:

<b>Substrates:</b>	Fiberglass				
<b>Contaminants:</b>	Odor				
<b>Company Name:</b>	<b>Product Name:</b>	<b>Conc.:</b>	<b>Efficiency:</b>	<b>Effective:</b>	<b>Observations:</b>
IAC Inc	Eats It	100	0.00	<input type="checkbox"/>	Rank = 4
Gemtek Products	SC Odor Ex	100	0.00	<input checked="" type="checkbox"/>	Rank = 2
Orison Marketing	Heavy Duty Odor Neutralizer	100	0.00	<input checked="" type="checkbox"/>	Rank = 1
Envirox LLC	H2Orange2	2	0.00	<input type="checkbox"/>	Rank = 5
Cleanline Products	H2O2 Super Citrus Concentrate	8	0.00	<input checked="" type="checkbox"/>	Rank = 3

Conclusion:

Three of the four products tested were as effective or better than the current odor neutralizing product.