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:

Substrates:	Fiberglass				
Contaminants:	Odor				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
IAC Inc	Eats It	100	0.00	☐	Rank = 4
Gemtek Products	SC Odor Ex	100	0.00	☑	Rank = 2
Orison Marketing	Heavy Duty Odor Neutralizer	100	0.00	☑	Rank = 1
EnvirOx LLC	H2Orange2	2	0.00	☐	Rank = 5
Cleanline Products	H2O2 Super Citrus Concentrate	8	0.00	☑	Rank = 3

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