Appendix D

Summary of Ingredient Reformulation Costs

Low Cost

Category: Chemically Curing Sealant or Caulking Compound
Subcategory:

Typical noncomp: 4
Proposed Limit: 3

Average Unit Size 13.50 wt oz

Formulation and Cost Comparison

Component (A)	Unit Cost $/lb (B)	Typical Non-compliant wt% (C)	Typical Non-compliant Cost (B)x(C)/100	% VOC Compliant wt% (D)	% VOC Compliant Cost (B)x(D)/100
Hydrocarbon solvent	0.540	4.00	0.02	3.00	0.02
Inorganics	0.090	50.00	0.05	50.00	0.05
Non-Solvent LVP-VOC*	3.500	46.00	1.61	47.00	1.65
*resins					
SUM		100.00		100.00	

Total Cost, $/pound	1.68	1.71
% Cost Diff. Relative to Current Product		1.77
Total Cost, $/Unit	1.41	1.44
Recurring Costs C.E., $/lb VOC Reduced		2.96

Assume:
(1) Cost of "All Others" remains at $ 3.50 per pound
(2) Average unit size = 13.50 ounce

High Cost

Category: Chemically Curing Sealant or Caulking Compound
Subcategory:

Typical noncomp: 4
Proposed Limit: 3

Average Unit Size 13.50 wt oz

Formulation and Cost Comparison

Component (A)	Unit Cost $/lb (B)	Typical Non-compliant wt% (C)	Typical Non-compliant Cost (B)x(C)/100	% VOC Compliant wt% (D)	% VOC Compliant Cost (B)x(D)/100
Hydrocarbon solvent	0.800	4.00	0.03	3.00	0.02
Inorganics	0.910	50.00	0.46	50.00	0.46
Non-Solvent LVP-VOC*	7.000	46.00	3.22	47.00	3.29
*resins					
SUM		100.00		100.00	

Total Cost, $/pound	3.71	3.77
% Cost Diff. Relative to Current Product		1.67
Total Cost, $/Unit	3.13	3.18
Recurring Costs C.E., $/lb VOC Reduced		6.20

Assume:
(1) Cost of "All Others" remains at $ 7.00 per pound
(2) Average unit size = 13.50 ounce

Low Cost

Category: Non-Chemically Curing Sealant or Caulking Compound
Subcategory:

Typical noncomp: 4
Proposed Limit: 1.5

Average Unit Size 13.50 wt oz

Formulation and Cost Comparison

Component (A)	Unit Cost $/lb (B)	Typical Non-compliant wt% (C)	Typical Non-compliant Cost (B)x(C)/100	% VOC Compliant wt% (D)	% VOC Compliant Cost (B)x(D)/100
Hydrocarbon solvent	0.540	4.00	0.02	1.50	0.01
Ethylene Glycol	0.620	1.00	0.01	1.00	0.01
Non-Solvent LVP-VOC*	3.500	18.00	0.63	17.50	0.61
Inorganics	0.090	49.00	0.04	50.00	0.05
Water	0.002	28.00	0.00	30.00	0.00
*resins					
SUM		100.00		100.00	

Total Cost, $/pound	0.70	0.67
% Cost Diff. Relative to Current Product		-4.28
Total Cost, $/Unit	0.59	0.57
Recurring Costs C.E., $/lb VOC Reduced		-1.20

Assume:
(1) Cost of "All Others" remains at $ 3.50 per pound
(2) Average unit size = 13.50 ounce

High Cost

Category: Non-Chemically Curing Sealant or Caulking Compound
Subcategory:

Typical noncomp: 4
Proposed Limit: 1.5

Average Unit Size 13.50 wt oz

Formulation and Cost Comparison

Component (A)	Unit Cost $/lb (B)	Typical Non-compliant wt% (C)	Typical Non-compliant Cost (B)x(C)/100	% VOC Compliant wt% (D)	% VOC Compliant Cost (B)x(D)/100
Hydrocarbon solvent	0.800	4.00	0.03	1.50	0.01
Ethylene Glycol	0.640	1.00	0.01	1.00	0.01
Non-Solvent LVP-VOC*	7.000	18.00	1.26	17.50	1.23
Inorganics	0.910	49.00	0.45	50.00	0.46
Water	0.002	28.00	0.00	30.00	0.00
*resins					
SUM		100.00		100.00	

Total Cost, $/pound	1.74	1.70
% Cost Diff. Relative to Current Product		-2.63
Total Cost, $/Unit	1.47	1.43
Recurring Costs C.E., $/lb VOC Reduced		-1.83

Assume:
(1) Cost of "All Others" remains at $ 7.00 per pound
(2) Average unit size = 13.50 ounce

Low Cost

Category: Motor Vehicle Wash
Subcategory: Liquid

Typical noncomp: 2.5
Proposed Limit: 0.2

Average Unit Size 64.00 wt oz

Formulation and Cost Comparison

Component (A)	Unit Cost $/lb (B)	Typical Non-compliant wt% (C)	Typical Non-compliant Cost (B)x(C)/100	% VOC Compliant wt% (D)	% VOC Compliant Cost (B)x(D)/100
Water	0.002	85.00	0.00	85.00	0.00
Non-solvent LVP	3.500	10.00	0.35	10.00	0.35
Inorganic	0.090	2.50	0.00	2.00	0.00
2-Butoxyethanol	1.150	2.50	0.03	0.00	0.00
LVP-Glycol Ether	1.150	0.00	0.00	3.00	0.03
SUM		100.00		100.00	

Total Cost, $/pound	0.38	0.39
% Cost Diff. Relative to Current Product		1.38
Total Cost, $/Unit	1.53	1.55
Recurring Costs C.E., $/lb VOC Reduced		0.23

Assume:
(1) Cost of "All Others" remains at $ 3.50 per pound
(2) Average unit size = 64.00 ounce
(3) Cost of "inorganics" is the range of the most common inorganics in category

High Cost

Category: Motor Vehicle Wash
Subcategory: Liquid

Typical noncomp: 2.5
Proposed Limit: 0.2

Average Unit Size 64.00 wt oz

Formulation and Cost Comparison

Component (A)	Unit Cost $/lb (B)	Typical Non-compliant wt% (C)	Typical Non-compliant Cost (B)x(C)/100	% VOC Compliant wt% (D)	% VOC Compliant Cost (B)x(D)/100
Water	0.002	85.00	0.00	85.00	0.00
Non-solvent LVP	7.000	10.00	0.70	10.00	0.70
Inorganic	0.910	2.50	0.02	2.00	0.02
2-Butoxyethanol	1.200	2.50	0.03	0.00	0.00
LVP-Glycol Ether	1.760	0.00	0.00	3.00	0.05
SUM		100.00		100.00	

Total Cost, $/pound	0.75	0.77
% Cost Diff. Relative to Current Product		2.42
Total Cost, $/Unit	3.02	3.09
Recurring Costs C.E., $/lb VOC Reduced		0.79

Assume:
(1) Cost of "All Others" remains at $ 7.00 per pound
(2) Average unit size = 64.00 ounce
(3) Cost of "inorganics" is the range of the most common inorganics in category

Low Cost

Category: Windshield Water Repellant
Subcategory: Liquid

Typical noncomp: 90
Proposed Limit: 75

Average Unit Size 16.00 wt oz

Formulation and Cost Comparison

Component (A)	Unit Cost $/lb (B)	Typical Non-compliant wt% (C)	Typical Non-compliant Cost (B)x(C)/100	% VOC Compliant wt% (D)	% VOC Compliant Cost (B)x(D)/100
Ethanol	0.457	75.00	0.34	65.00	0.30
Isopropyl Alcohol	0.720	15.00	0.11	10.00	0.07
Inorganic	0.090	10.00	0.01	10.00	0.01
Water	0.002	0.00	0.00	15.00	0.00
SUM		100.00		100.00	

Total Cost, $/pound	0.46	0.38
% Cost Diff. Relative to Current Product		-17.71
Total Cost, $/Unit	0.46	0.38
Recurring Costs C.E., $/lb VOC Reduced		-0.54

Assume:
(1) Cost of "All Others" remains at $ 3.50 per pound
(2) Average unit size = 16.00 ounce
(3) Cost of "inorganics" is the range of the most common inorganics in category

High Cost

Category: Windshield Water Repellant
Subcategory: Liquid

Typical noncomp: 90
Proposed Limit: 75

Average Unit Size 16.00 wt oz

Formulation and Cost Comparison

Component (A)	Unit Cost $/lb (B)	Typical Non-compliant wt% (C)	Typical Non-compliant Cost (B)x(C)/100	% VOC Compliant wt% (D)	% VOC Compliant Cost (B)x(D)/100
Ethanol	0.510	75.00	0.38	65.00	0.33
Isopropyl Alcohol	0.940	15.00	0.14	10.00	0.09
Inorganic	0.910	10.00	0.09	10.00	0.09
Water	0.002	0.00	0.00	15.00	0.00
SUM		100.00		100.00	

Total Cost, $/pound	0.61	0.52
% Cost Diff. Relative to Current Product		-15.90
Total Cost, $/Unit	0.61	0.52
Recurring Costs C.E., $/lb VOC Reduced		-0.65

Assume:
(1) Cost of "All Others" remains at $ 7.00 per pound
(2) Average unit size = 16.00 ounce
(3) Cost of "inorganics" is the range of the most common inorganics in category

Low Cost

Category: Tire/Wheel Cleaner
Subcategory: Aerosol

Typical noncomp: 14
Proposed Limit: 8

Average Unit Size 12.00 wt oz

Formulation and Cost Comparison

Component (A)	Unit Cost $/lb (B)	Typical Non-compliant wt% (C)	Typical Non-compliant Cost (B)x(C)/100	% VOC Compliant wt% (D)	% VOC Compliant Cost (B)x(D)/100
Water	0.002	85.00	0.00	85.00	0.00
HC Propellant	0.700	8.00	0.06	6.00	0.04
VOC Glycol Ether	1.150	6.00	0.07	2.00	0.02
Inorganic	0.090	1.00	0.00	1.00	0.00
LVP-Glycol Ether	1.150	0.00	0.00	6.00	0.07
	SUM	100.00		100.00	

Total Cost, $/pound	0.13	0.14
% Cost Diff. Relative to Current Product		7.05
Total Cost, $/Unit	0.10	0.10
Recurring Costs C.E., $/lb VOC Reduced		0.15

Assume: (1) Cost of "All Others" remains at $ 3.50 per pound
(2) Average unit size = 12.00 ounce

High Cost

Category: Tire/Wheel Cleaner
Subcategory: Aerosol

Typical noncomp: 14
Proposed Limit: 8

Average Unit Size 12.00 wt oz

Formulation and Cost Comparison

Component (A)	Unit Cost $/lb (B)	Typical Non-compliant wt% (C)	Typical Non-compliant Cost (B)x(C)/100	% VOC Compliant wt% (D)	% VOC Compliant Cost (B)x(D)/100
Water	0.002	85.00	0.00	85.00	0.00
HC Propellant	1.050	8.00	0.08	6.00	0.06
VOC Glycol Ether	1.200	6.00	0.07	2.00	0.02
Inorganic	0.910	1.00	0.01	1.00	0.01
LVP-Glycol Ether	1.760	0.00	0.00	6.00	0.11
	SUM	100.00		100.00	

Total Cost, $/pound	0.17	0.20
% Cost Diff. Relative to Current Product		21.94
Total Cost, $/Unit	0.13	0.15
Recurring Costs C.E., $/lb VOC Reduced		0.61

Assume: (1) Cost of "All Others" remains at $ 7.00 per pound
(2) Average unit size = 12.00 ounce

Low Cost

Category: Tire/Wheel Cleaner
Subcategory: non-aerosol

Typical noncomp: 5
Proposed Limit: 2

Average Unit Size 16.00 wt oz

Formulation and Cost Comparison

Component (A)	Unit Cost $/lb (B)	Typical Non-compliant wt% (C)	Typical Non-compliant Cost (B)x(C)/100	% VOC Compliant wt% (D)	% VOC Compliant Cost (B)x(D)/100
Water	0.002	89.00	0.00	91.00	0.00
LVP solvent	0.680	5.00	0.03	6.00	0.04
VOC Glycol Ether	1.150	5.00	0.06	2.00	0.02
Inorganic	0.090	1.00	0.00	1.00	0.00
SUM		100.00		100.00	

Total Cost, $/pound	0.09	0.07
% Cost Diff. Relative to Current Product		-29.37
Total Cost, $/Unit	0.09	0.07
Recurring Costs C.E., $/lb VOC Reduced		-0.92

Assume:
(1) Cost of "All Others" remains at $ 3.50 per pound
(2) Average unit size = 16.00 ounce
(3) Cost of "inorganics" is the range of the most common inorganics in category

High Cost

Category: Tire/Wheel Cleaner
Subcategory: non-aerosol

Typical noncomp: 26
Proposed Limit: 2

Average Unit Size 16.00 wt oz

Formulation and Cost Comparison

Component (A)	Unit Cost $/lb (B)	Typical Non-compliant wt% (C)	Typical Non-compliant Cost (B)x(C)/100	% VOC Compliant wt% (D)	% VOC Compliant Cost (B)x(D)/100
Water	0.002	89.00	0.00	91.00	0.00
LVP solvent	0.760	5.00	0.04	6.00	0.05
VOC Glycol Ether	1.200	5.00	0.06	2.00	0.02
Inorganic	0.910	1.00	0.01	1.00	0.01
SUM		100.00		100.00	

Total Cost, $/pound	0.11	0.08
% Cost Diff. Relative to Current Product		-26.05
Total Cost, $/Unit	0.11	0.08
Recurring Costs C.E., $/lb VOC Reduced		-0.12

Assume:
(1) Cost of "All Others" remains at $ 7.00 per pound
(2) Average unit size = 16.00 ounce
(3) Cost of "inorganics" is the range of the most common inorganics in category

Low Cost

Category: Carpet/Upholstery Cleaner
Subcategory: Aerosol

Typical noncomp: 7
Proposed Limit: 5

Average Unit Size 18.00 wt oz

Formulation and Cost Comparison

Component (A)	Unit Cost $/lb (B)	Typical Non-compliant wt% (C)	Typical Non-compliant Cost (B)x(C)/100	% VOC Compliant wt% (D)	% VOC Compliant Cost (B)x(D)/100
2-Butoxyethanol	1.150	2.00	0.02	1.00	0.01
HC Propellant	0.700	5.00	0.04	4.00	0.03
Inorganics	0.090	1.00	0.00	1.00	0.00
Solvent LVP	0.680	5.00	0.03	3.00	0.02
Water	0.002	87.00	0.00	91.00	0.00
	SUM	100.00		100.00	

Total Cost, $/pound	0.09	0.06
% Cost Diff. Relative to Current Product		-33.83
Total Cost, $/Unit	0.11	0.07
Recurring Costs C.E., $/lb VOC Reduced		-1.60

Assume: (1) Cost of "All Others" remains at $ 3.50 per pound
(2) Average unit size = 18.00 ounce

High Cost

Category: Carpet/Upholstery Cleaner
Subcategory: Aerosol

Typical noncomp: 7
Proposed Limit: 5

Average Unit Size 18.00 wt oz

Formulation and Cost Comparison

Component (A)	Unit Cost $/lb (B)	Typical Non-compliant wt% (C)	Typical Non-compliant Cost (B)x(C)/100	% VOC Compliant wt% (D)	% VOC Compliant Cost (B)x(D)/100
2-Butoxyethanol	1.200	2.00	0.02	1.00	0.01
HC Propellant	1.050	5.00	0.05	4.00	0.04
Inorganics	0.910	1.00	0.01	1.00	0.01
Solvent LVP	0.760	5.00	0.04	3.00	0.02
Water	0.002	87.00	0.00	91.00	0.00
	SUM	100.00		100.00	

Total Cost, $/pound	0.13	0.09
% Cost Diff. Relative to Current Product		-30.01
Total Cost, $/Unit	0.14	0.10
Recurring Costs C.E., $/lb VOC Reduced		-1.88

Assume: (1) Cost of "All Others" remains at $ 7.00 per pound
(2) Average unit size = 18.00 ounce

Low Cost

Category: Carpet/Upholstery Cleaner
Subcategory: non-aerosol

Typical noncomp: 3
Proposed Limit: 1

Average Unit Size 138.00 wt oz

Formulation and Cost Comparison

Component (A)	Unit Cost $/lb (B)	Typical Non-compliant wt% (C)	Typical Non-compliant Cost (B)x(C)/100	% VOC Compliant wt% (D)	% VOC Compliant Cost (B)x(D)/100
Isopropyl Alcohol	0.720	3.00	0.02	0.00	0.00
Solvent LVP	0.680	6.00	0.04	6.00	0.04
Inorganic	0.090	2.00	0.00	2.00	0.00
Water	0.002	89.00	0.00	91.00	0.00
2-Butoxyethanol	1.150	0.00	0.00	1.00	0.01
SUM		100.00		100.00	

Total Cost, $/pound	0.07	0.06
% Cost Diff. Relative to Current Product		-15.25
Total Cost, $/Unit	0.57	0.48
Recurring Costs C.E., $/lb VOC Reduced		-0.50

Assume:
(1) Cost of "All Others" remains at $ 3.50 per pound
(2) Average unit size = 138.00 ounce
(3) Cost of "inorganics" is the range of the most common inorganics in category

High Cost

Category: Carpet/Upholstery Cleaner
Subcategory: non-aerosol

Typical noncomp: 26
Proposed Limit: 1

Average Unit Size 138.00 wt oz

Formulation and Cost Comparison

Component (A)	Unit Cost $/lb (B)	Typical Non-compliant wt% (C)	Typical Non-compliant Cost (B)x(C)/100	% VOC Compliant wt% (D)	% VOC Compliant Cost (B)x(D)/100
Isopropyl Alcohol	0.940	3.00	0.03	0.00	0.00
Solvent LVP	0.760	6.00	0.05	6.00	0.05
Inorganic	0.910	2.00	0.02	2.00	0.02
Water	0.002	89.00	0.00	91.00	0.00
2-Butoxyethanol	1.200	0.00	0.00	1.00	0.01
SUM		100.00		100.00	

Total Cost, $/pound	0.09	0.08
% Cost Diff. Relative to Current Product		-17.23
Total Cost, $/Unit	0.81	0.67
Recurring Costs C.E., $/lb VOC Reduced		-0.06

Assume:
(1) Cost of "All Others" remains at $ 7.00 per pound
(2) Average unit size = 138.00 ounce
(3) Cost of "inorganics" is the range of the most common inorganics in category

Low Cost

Category: Dusting Aid
Subcategory: Aerosol

Typical noncomp: 25
Proposed Limit: 17

Average Unit Size 17.00 wt oz

Formulation and Cost Comparison

Component (A)	Unit Cost $/lb (B)	Typical Non-compliant wt% (C)	Cost (B)x(C)/100	% VOC Compliant wt% (D)	Cost (B)x(D)/100
HC Propellant	0.700	15.00	0.11	10.00	0.07
HC Solvent	0.540	9.00	0.05	7.00	0.04
LVP Solvent	0.680	24.00	0.16	25.00	0.17
Inorganic	0.090	1.00	0.00	1.00	0.00
Fragrance	5.000	1.00	0.05	0.50	0.03
Non-solvent LVP	3.500	50	1.75	6.5	0.23
CO2	0.270			0	0.00
Water	0.002			50	0.00
	SUM	100.00		100.00	

Total Cost, $/pound	2.12	0.53
% Cost Diff. Relative to Current Product		-74.87
Total Cost, $/Unit	2.25	0.57
Recurring Costs C.E., $/lb VOC Reduced		-19.82

Assume: (1) Cost of "All Others" remains at $ 3.50 per pound
(2) Average unit size = 17.00 ounce

High Cost

Category: Dusting Aid
Subcategory: Aerosol

Typical noncomp: 25
Proposed Limit: 17

Average Unit Size 17.00 wt oz

Formulation and Cost Comparison

Component (A)	Unit Cost $/lb (B)	Typical Non-compliant wt% (C)	Cost (B)x(C)/100	% VOC Compliant wt% (D)	Cost (B)x(D)/100
HC Propellant	1.050	15.00	0.16	10.00	0.11
HC Solvent	0.800	9.00	0.07	7.00	0.06
LVP Solvent	0.760	24.00	0.18	25.00	0.19
Inorganic	0.910	1.00	0.01	1.00	0.01
Fragrance	10.000	1.00	0.10	0.50	0.05
Non-solvent LVP	7.000	50	3.50	6.5	0.46
CO2	0.270			0	0.00
Water	0.002			50	0.00
	SUM	100.00		100.00	

Total Cost, $/pound	4.02	0.87
% Cost Diff. Relative to Current Product		-78.46
Total Cost, $/Unit	4.27	0.92
Recurring Costs C.E., $/lb VOC Reduced		-39.44

Assume: (1) Cost of "All Others" remains at $ 7.00 per pound
(2) Average unit size = 17.00 ounce

Low Cost

Category: Dusting Aid
Subcategory: non-aerosol

Typical noncomp: 7
Proposed Limit: 3

Average Unit Size 33.00 wt oz

Formulation and Cost Comparison

Component (A)	Unit Cost $/lb (B)	Typical Non-compliant wt% (C)	Typical Non-compliant Cost (B)x(C)/100	% VOC Compliant wt% (D)	% VOC Compliant Cost (B)x(D)/100
HC Solvent	0.540	6.80	0.04	2.80	0.02
Non-solvent LVP	3.500	35.00	1.23	34.00	1.19
Fragrance	5.000	0.20	0.01	0.20	0.01
Exempt	3.500	0.00	0.00	0.00	0.00
VMS	3.500	0.00	0.00	0.00	0.00
Water	0.002	58.00	0.00	55.00	0.00
Hydrocarbon LVP	0.680	0	0.00	8	0.05
	SUM	100.00		100.00	
	Total Cost, $/pound		1.27		1.27
	% Cost Diff. Relative to Current Product				-0.18
	Total Cost, $/Unit		2.63		2.62
	Recurring Costs C.E., $/lb VOC Reduced				-0.06

Assume:
(1) Cost of "All Others" remains at $ 3.50 per pound
(2) Average unit size = 33.00 ounce
(3) Cost of "inorganics" is the range of the most common inorganics in category

High Cost

Category: Dusting Aid
Subcategory: non-aerosol

Typical noncomp: 26
Proposed Limit: 3

Average Unit Size 33.00 wt oz

Formulation and Cost Comparison

Component (A)	Unit Cost $/lb (B)	Typical Non-compliant wt% (C)	Typical Non-compliant Cost (B)x(C)/100	% VOC Compliant wt% (D)	% VOC Compliant Cost (B)x(D)/100
HC Solvent	0.800	6.80	0.05	2.80	0.02
Non-solvent LVP	7.000	35.00	2.45	34.00	2.38
Fragrance	10.000	0.20	0.02	0.20	0.02
Exempt	7.000	0.00	0.00	0.00	0.00
VMS	7.000	0.00	0.00	0.00	0.00
Water	0.002	58.00	0.00	55.00	0.00
Hydrocarbon LVP	0.760	0	0.00	8	0.06
	SUM	100.00		100.00	
	Total Cost, $/pound		2.53		2.48
	% Cost Diff. Relative to Current Product				-1.63
	Total Cost, $/Unit		5.21		5.12
	Recurring Costs C.E., $/lb VOC Reduced				-0.18

Assume:
(1) Cost of "All Others" remains at $ 7.00 per pound
(2) Average unit size = 33.00 ounce
(3) Cost of "inorganics" is the range of the most common inorganics in category

Low Cost

Category: Fabric Protectant
Subcategory: non-aerosol

Typical noncomp: 5
Proposed Limit: 1

Average Unit Size 138.00 wt oz

Formulation and Cost Comparison

Component (A)	Unit Cost $/lb (B)	Typical Non-compliant wt% (C)	Typical Non-compliant Cost (B)x(C)/100	% VOC Compliant wt% (D)	% VOC Compliant Cost (B)x(D)/100
Dipropylene Glycol Methyl	1.340	5.00	0.07	1.00	0.01
Non-solvent LVP	3.500	5.00	0.18	2.00	0.07
Water	0.002	90.00	0.00	97.00	0.00
SUM		100.00		100.00	

Total Cost, $/pound	0.24	0.09
% Cost Diff. Relative to Current Product		-65.00
Total Cost, $/Unit	2.10	0.74
Recurring Costs C.E., $/lb VOC Reduced		-3.96

Assume:
(1) Cost of "All Others" remains at $ 3.50 per pound
(2) Average unit size = 138.00 ounce
(3) Cost of "inorganics" is the range of the most common inorganics in category

High Cost

Category: Fabric Protectant
Subcategory: non-aerosol

Typical noncomp: 5
Proposed Limit: 1

Average Unit Size 138.00 wt oz

Formulation and Cost Comparison

Component (A)	Unit Cost $/lb (B)	Typical Non-compliant wt% (C)	Typical Non-compliant Cost (B)x(C)/100	% VOC Compliant wt% (D)	% VOC Compliant Cost (B)x(D)/100
Dipropylene Glycol Methyl	1.760	5.00	0.09	1.00	0.02
Non-solvent LVP	7.000	5.00	0.35	2.00	0.14
Water	0.002	90.00	0.00	97.00	0.00
SUM		100.00		100.00	

Total Cost, $/pound	0.44	0.16
% Cost Diff. Relative to Current Product		-63.72
Total Cost, $/Unit	3.79	1.38
Recurring Costs C.E., $/lb VOC Reduced		-7.01

Assume:
(1) Cost of "All Others" remains at $ 7.00 per pound
(2) Average unit size = 138.00 ounce
(3) Cost of "inorganics" is the range of the most common inorganics in category

Low Cost

Category: Fabric Softener-Dryer Product
Subcategory: Non-aerosol

		Average Unit Size	
Typical noncomp:	3.5		2.00 wt oz*
Proposed Limit:	2.5		0.05 oz/sheet
(including fragrance)			40 sheets

Formulation and Cost Comparison

Component (A)	Unit Cost $/lb (B)	Typical Non-compliant wt% (C)	Typical Non-compliant Cost (B)x(C)/100	% VOC Compliant wt% (D)	% VOC Compliant Cost (B)x(D)/100
Fragrance	5.000	3.50	0.18	2.50	0.13
Inorganics	0.09	2.00	0.00	2.00	0.00
Water	0.002	1.50	0.00	1.50	0.00
Exempts and non-solvent LVPs	3.500	93.00	3.26	94.00	3.29
	SUM	100.00		100.00	
	Total Cost, $/pound		3.43		3.42
	% Cost Diff. Relative to Current Product				-0.44
	Total Cost, $/Unit		0.43		0.43
	Recurring Costs C.E., $/lb VOC Reduced				-1.50

Assume:
(1) Cost of "All Others" remains at $ 3.50 per pound
(2) Average unit size = 2.00 ounce
(3) Cost of "inorganics" is the range of the most common inorganics in category
*40 sheets with 0.05 ounces per sheet

High Cost

Category: Fabric Softener-Dryer Product
Subcategory: Non-aerosol

		Average Unit Size	
Typical noncomp:	3.5		2.00 wt oz*
Proposed Limit:	2.5		0.05 oz/sheet
			40 sheets

Formulation and Cost Comparison

Component (A)	Unit Cost $/lb (B)	Typical Non-compliant wt% (C)	Typical Non-compliant Cost (B)x(C)/100	% VOC Compliant wt% (D)	% VOC Compliant Cost (B)x(D)/100
Fragrance	10.000	3.50	0.35	2.50	0.25
Inorganics	0.91	2.00	0.02	2.00	0.02
Water	0.002	1.50	0.00	1.50	0.00
Exempts and non-solvent LVPs	7	93.00	6.51	94.00	6.58
	SUM	100.00		100.00	
	Total Cost, $/pound		6.88		6.85
	% Cost Diff. Relative to Current Product				-0.44
	Total Cost, $/Unit		0.86		0.86
	Recurring Costs C.E., $/lb VOC Reduced				-3.00

Assume:
(1) Cost of "All Others" remains at $ 7.00 per pound
(2) Average unit size = 2.00 ounce
(3) Cost of "inorganics" is the range of the most common inorganics in category

Low Cost

Category: Floor maintenance
Subcategory: Liquid

Typical noncomp: 7
Proposed Limit: 1

Average Unit Size 132.00 wt oz

Formulation and Cost Comparison

Component (A)	Unit Cost $/lb (B)	Typical Non-compliant wt% (C)	Typical Non-compliant Cost (B)x(C)/100	% VOC Compliant wt% (D)	% VOC Compliant Cost (B)x(D)/100
Water	0.002	65.00	0.00	69.00	0.00
Dipropylene Glycol Methyl	1.340	7.00	0.09	1.00	0.01
Diethylene Glycol Monoeth	1.230	5.00	0.06	7.00	0.09
Non-solvent LVP	3.500	23.00	0.81	23.00	0.81
SUM		100.00		100.00	

Total Cost, $/pound	0.96	0.91
% Cost Diff. Relative to Current Product		-5.79
Total Cost, $/Unit	7.93	7.47
Recurring Costs C.E., $/lb VOC Reduced		-0.93

Assume:
(1) Cost of "All Others" remains at $ 3.50 per pound
(2) Average unit size = 132.00 ounce
(3) Cost of "inorganics" is the range of the most common inorganics in category

High Cost

Category: Floor maintenance
Subcategory: Liquid

Typical noncomp: 7
Proposed Limit: 1

Average Unit Size 132.00 fl oz

Formulation and Cost Comparison

Component (A)	Unit Cost $/lb (B)	Typical Non-compliant wt% (C)	Typical Non-compliant Cost (B)x(C)/100	% VOC Compliant wt% (D)	% VOC Compliant Cost (B)x(D)/100
Water	0.002	65.00	0.00	69.00	0.00
Dipropylene Glycol Methyl	1.760	7.00	0.12	1.00	0.02
Diethylene Glycol Monoeth	1.300	5.00	0.07	7.00	0.09
Non-solvent LVP	7.000	23.00	1.61	23.00	1.61
SUM		100.00		100.00	

Total Cost, $/pound	1.80	1.72
% Cost Diff. Relative to Current Product		-4.42
Total Cost, $/Unit	14.85	14.19
Recurring Costs C.E., $/lb VOC Reduced		-1.33

Assume:
(1) Cost of "All Others" remains at $ 7.00 per pound
(2) Average unit size = 132.00 ounce
(3) Cost of "inorganics" is the range of the most common inorganics in category

Low Cost

Category: Wood Floor Wax
Subcategory: Waxes

Typical noncomp: 75
Proposed Limit: 70

Average Unit Size 16.00 wt oz

Formulation and Cost Comparison

Component (A)	Unit Cost $/lb (B)	Typical Non-compliant wt% (C)	Typical Non-compliant Cost (B)x(C)/100	% VOC Compliant wt% (D)	% VOC Compliant Cost (B)x(D)/100
Mineral Spirits	0.540	75.00	0.41	70.00	0.38
Non-solvent LVP	3.500	25.00	0.88	30.00	1.05
SUM		100.00		100.00	

Total Cost, $/pound	1.28	1.43
% Cost Diff. Relative to Current Product		11.56
Total Cost, $/Unit	1.28	1.43
Recurring Costs C.E., $/lb VOC Reduced		2.96

Assume: (1) Cost of "All Others" remains at $ 3.50 per pound
(2) Average unit size = 16.00 ounce

High Cost

Category: Wood Floor Wax
Subcategory: Waxes

Typical noncomp: 75
Proposed Limit: 70

Average Unit Size 16.00 wt oz

Formulation and Cost Comparison

Component (A)	Unit Cost $/lb (B)	Typical Non-compliant wt% (C)	Typical Non-compliant Cost (B)x(C)/100	% VOC Compliant wt% (D)	% VOC Compliant Cost (B)x(D)/100
Mineral Spirits	0.800	75.00	0.60	70.00	0.56
Non-solvent LVP	7.000	25.00	1.75	30.00	2.10
SUM		100.00		100.00	

Total Cost, $/pound	2.35	2.66
% Cost Diff. Relative to Current Product		13.19
Total Cost, $/Unit	2.35	2.66
Recurring Costs C.E., $/lb VOC Reduced		6.20

Assume: (1) Cost of "All Others" remains at $ 7.00 per pound
(2) Average unit size = 16.00 ounce

Low Cost

Category: Wood Floor Wax
Subcategory: Liquids

Typical noncomp: 90
Proposed Limit: 70

Average Unit Size 19.00 wt oz

Formulation and Cost Comparison

Component (A)	Unit Cost $/lb (B)	Typical Non-compliant wt% (C)	Typical Non-compliant Cost (B)x(C)/100	% VOC Compliant wt% (D)	% VOC Compliant Cost (B)x(D)/100
Mineral Spirits	0.540	90.00	0.49	0.00	0.00
Water	0.002	0.00	0.00	60.00	0.00
Diethylene Glycol monoeth	1.230	0.00	0.00	10.00	0.12
Non-solvent LVP	3.500	10.00	0.35	30.00	1.05
SUM		100.00		100.00	

Total Cost, $/pound 0.84 1.17

% Cost Diff. Relative to Current Product 40.45

Total Cost, $/Unit 0.99 1.39

Recurring Costs C.E., $/lb VOC Reduced 1.69

Assume:
(1) Cost of "All Others" remains at $ 3.50 per pound
(2) Average unit size = 19.00 ounce
(3) Cost of "inorganics" is the range of the most common inorganics in category

High Cost

Category: Wood Floor Wax
Subcategory: Liquids

Typical noncomp: 90
Proposed Limit: 70

Average Unit Size 19.00 wt oz

Formulation and Cost Comparison

Component (A)	Unit Cost $/lb (B)	Typical Non-compliant wt% (C)	Typical Non-compliant Cost (B)x(C)/100	% VOC Compliant wt% (D)	% VOC Compliant Cost (B)x(D)/100
Mineral Spirits	0.800	90.00	0.72	0.00	0.00
Water	0.002	0.00	0.00	60.00	0.00
Diethylene Glycol monoeth	1.300	0.00	0.00	10.00	0.13
Non-solvent LVP	7.000	10.00	0.70	30.00	2.10
SUM		100.00		100.00	

Total Cost, $/pound 1.42 2.23

% Cost Diff. Relative to Current Product 57.13

Total Cost, $/Unit 1.69 2.65

Recurring Costs C.E., $/lb VOC Reduced 4.06

Assume:
(1) Cost of "All Others" remains at $ 7.00 per pound
(2) Average unit size = 19.00 ounce
(3) Cost of "inorganics" is the range of the most common inorganics in category

Low Cost

Category: Glass Cleaner
Subcategory: Aerosol

Typical noncomp: 12
Proposed Limit: 10

Average Unit Size 16.00 wt oz

Formulation and Cost Comparison

Component (A)	Unit Cost $/lb (B)	Typical Non-compliant wt% (C)	Typical Non-compliant Cost (B)x(C)/100	% VOC Compliant wt% (D)	% VOC Compliant Cost (B)x(D)/100
Water	0.002	87.70	0.00	89.70	0.00
2-Butoxyethanol	1.150	3.50	0.04	3.00	0.03
Isopropyl Alcohol	0.720	3.50	0.03	3.00	0.02
Non-solvent LVP	3.500	0.10	0.00	0.10	0.00
Inorganic	0.090	0.10	0.00	0.10	0.00
Fragrance	5.000	0.10	0.01	0.10	0.01
HC Propellant	0.700	5.00	0.04	4.00	0.03
	SUM	100.00		100.00	

Total Cost, $/pound	0.11	0.09
% Cost Diff. Relative to Current Product		-14.72
Total Cost, $/Unit	0.11	0.09
Recurring Costs C.E., $/lb VOC Reduced		-0.82

Assume:
(1) Cost of "All Others" remains at $ 3.50 per pound
(2) Average unit size = 16.00 ounce
(3) Cost of "inorganics" is the range of the most common inorganics in category

High Cost

Category: Glass Cleaner
Subcategory: Aerosol

Typical noncomp: 12
Proposed Limit: 10

Average Unit Size 16.00 wt oz

Formulation and Cost Comparison

Component (A)	Unit Cost $/lb (B)	Typical Non-compliant wt% (C)	Typical Non-compliant Cost (B)x(C)/100	% VOC Compliant wt% (D)	% VOC Compliant Cost (B)x(D)/100
Water	0.002	87.70	0.00	89.70	0.00
2-Butoxyethanol	1.200	3.50	0.04	3.00	0.04
Isopropyl Alcohol	0.940	3.50	0.03	3.00	0.03
Non-solvent LVP	7.000	0.10	0.01	0.10	0.01
Inorganic	0.910	0.10	0.00	0.10	0.00
Fragrance	10.000	0.10	0.01	0.10	0.01
HC Propellant	1.050	5.00	0.05	4.00	0.04
	SUM	100.00		100.00	

Total Cost, $/pound	0.15	0.13
% Cost Diff. Relative to Current Product		-14.39
Total Cost, $/Unit	0.15	0.13
Recurring Costs C.E., $/lb VOC Reduced		-1.06

Assume:
(1) Cost of "All Others" remains at $ 7.00 per pound
(2) Average unit size = 16.00 ounce
(3) Cost of "inorganics" is the range of the most common inorganics in category

Low Cost

Category: Multi-purpose Lubricant - TIER I
Subcategory: Aerosol

Typical noncomp: 50 Average Unit Size 8.00 wt oz
Proposed Limit: 25

Formulation and Cost Comparison

Component (A)	Unit Cost $/lb (B)	Typical Non-compliant wt% (C)	Cost (B)x(C)/100	% VOC Compliant wt% (D)	Cost (B)x(D)/100
HC Propellant	0.700	28.00	0.20	22.00	0.15
Petroleum base oil	0.404	28.00	0.11	35.00	0.14
LVP solvent	0.680	19.00	0.13	35.00	0.24
Mineral Spirits	0.540	22.00	0.12	3.00	0.02
Corrosion inhibitor	0.500	3.00	0.02	5.00	0.03
SUM		100.00		100.00	

Total Cost, $/pound	0.57	0.57
% Cost Diff. Relative to Current Product		0.43
Total Cost, $/Unit	0.29	0.29
Recurring Costs C.E., $/lb VOC Reduced		0.01

Assume: (1) Cost of "All Others" remains at $ 3.50 per pound
(2) Average unit size = 8.00 ounce

High Cost

Category: Multi-purpose Lubricant - TIER I
Subcategory: Aerosol

Typical noncomp: 50 Average Unit Size 8.00 wt oz
Proposed Limit: 25

Formulation and Cost Comparison

Component (A)	Unit Cost $/lb (B)	Typical Non-compliant wt% (C)	Cost (B)x(C)/100	% VOC Compliant wt% (D)	Cost (B)x(D)/100
HC Propellant	1.050	28.00	0.29	22.00	0.23
Petroleum base oil	0.632	28.00	0.18	35.00	0.22
LVP solvent	0.760	19.00	0.14	35.00	0.27
Mineral Spirits	0.800	22.00	0.18	3.00	0.02
Corrosion inhibitor	2.000	3.00	0.06	5.00	0.10
SUM		100.00		100.00	

Total Cost, $/pound	0.85	0.84
% Cost Diff. Relative to Current Product		-1.08
Total Cost, $/Unit	0.43	0.42
Recurring Costs C.E., $/lb VOC Reduced		-0.04

Assume: (1) Cost of "All Others" remains at $ 7.00 per pound
(2) Average unit size = 8.00 ounce

Low Cost

Category: Multi-purpose Lubricant - TIER I
Subcategory: non-aerosol

Typical noncomp: 50
Proposed Limit: 25

Average Unit Size 110.00 wt oz

Formulation and Cost Comparison

Component (A)	Unit Cost $/lb (B)	Typical Non-compliant wt% (C)	Typical Non-compliant Cost (B)x(C)/100	% VOC Compliant wt% (D)	% VOC Compliant Cost (B)x(D)/100
Petroleum base oil	0.404	30.00	0.12	40.00	0.16
LVP solvent	0.680	20.00	0.14	35.00	0.24
Mineral Spirits	0.540	50.00	0.27	25.00	0.14
SUM		100.00		100.00	
Total Cost, $/pound			0.53		0.53
% Cost Diff. Relative to Current Product					1.40
Total Cost, $/Unit			3.62		3.68
Recurring Costs C.E., $/lb VOC Reduced					0.03

Assume:
(1) Cost of "All Others" remains at $ 3.50 per pound
(2) Average unit size = 110.00 ounce
(3) Cost of "inorganics" is the range of the most common inorganics in category

High Cost

Category: Multi-purpose Lubricant - TIER I
Subcategory: non-aerosol

Typical noncomp: 50
Proposed Limit: 25

Average Unit Size 110.00 wt oz

Formulation and Cost Comparison

Component (A)	Unit Cost $/lb (B)	Typical Non-compliant wt% (C)	Typical Non-compliant Cost (B)x(C)/100	% VOC Compliant wt% (D)	% VOC Compliant Cost (B)x(D)/100
Petroleum base oil	0.632	30.00	0.19	40.00	0.25
LVP solvent	0.760	20.00	0.15	35.00	0.27
Mineral Spirits	0.800	50.00	0.40	25.00	0.20
SUM		100.00		100.00	
Total Cost, $/pound			0.74		0.72
% Cost Diff. Relative to Current Product					-3.07
Total Cost, $/Unit			5.10		4.94
Recurring Costs C.E., $/lb VOC Reduced					-0.09

Assume:
(1) Cost of "All Others" remains at $ 7.00 per pound
(2) Average unit size = 110.00 ounce
(3) Cost of "inorganics" is the range of the most common inorganics in category

Low Cost

Category: Multi-purpose Lubricant - TIER II
Subcategory: Aerosol

Typical noncomp: 25 Average Unit Size 8.00 wt oz
Proposed Limit: 10

Formulation and Cost Comparison

Component (A)	Unit Cost $/lb (B)	Typical Non-compliant wt% (C)	Typical Non-compliant Cost (B)x(C)/100	% VOC Compliant wt% (D)	% VOC Compliant Cost (B)x(D)/100
HC Propellant	0.700	22.00	0.15	0.00	0.00
Petroleum base oil	0.404	35.00	0.14	47.00	0.19
LVP solvent	0.680	35.00	0.24	37.50	0.26
Mineral Spirits	0.540	3.00	0.02	10.00	0.05
Corrosion inhibitor	0.500	5.00	0.03	3.00	0.02
CO2 Propellant	0.270	0		2.5	0.01
	SUM	100.00		100.00	

Total Cost, $/pound	0.57	0.52
% Cost Diff. Relative to Current Product		-9.39
Total Cost, $/Unit	0.29	0.26
Recurring Costs C.E., $/lb VOC Reduced		-0.36

Assume: (1) Cost of "All Others" remains at $ 3.50 per pound
(2) Average unit size = 8.00 ounce

High Cost

Category: Multi-purpose Lubricant - TIER II
Subcategory: Aerosol

Typical noncomp: 25 Average Unit Size 8.00 wt oz
Proposed Limit: 10

Formulation and Cost Comparison

Component (A)	Unit Cost $/lb (B)	Typical Non-compliant wt% (C)	Typical Non-compliant Cost (B)x(C)/100	% VOC Compliant wt% (D)	% VOC Compliant Cost (B)x(D)/100
HC Propellant	1.050	22.00	0.23	0.00	0.00
Petroleum base oil	0.632	35.00	0.22	47.00	0.30
LVP solvent	0.760	35.00	0.27	37.50	0.29
Mineral Spirits	0.800	3.00	0.02	10.00	0.08
Corrosion inhibitor	2.000	5.00	0.10	3.00	0.06
CO2 Propellant	0.270	0		2.5	0.01
	SUM	100.00		100.00	

Total Cost, $/pound	0.84	0.73
% Cost Diff. Relative to Current Product		-13.47
Total Cost, $/Unit	0.42	0.36
Recurring Costs C.E., $/lb VOC Reduced		-0.76

Assume: (1) Cost of "All Others" remains at $ 7.00 per pound
(2) Average unit size = 8.00 ounce

Low Cost

Category: Multi-purpose Lubricant - TIER II
Subcategory: non-aerosol

Typical noncomp: 25
Proposed Limit: 10

Average Unit Size 110.00 wt oz

Formulation and Cost Comparison

Component (A)	Unit Cost $/lb (B)	Typical Non-compliant wt% (C)	Typical Non-compliant Cost (B)x(C)/100	% VOC Compliant wt% (D)	% VOC Compliant Cost (B)x(D)/100
Petroleum base oil	0.404	40.00	0.16	45.00	0.18
LVP solvent	0.680	35.00	0.24	45.00	0.31
Mineral Spirits	0.540	25.00	0.14	10.00	0.05
SUM		100.00		100.00	
Total Cost, $/pound			0.53		0.54
% Cost Diff. Relative to Current Product					1.35
Total Cost, $/Unit			3.68		3.72
Recurring Costs C.E., $/lb VOC Reduced					0.05

Assume:
(1) Cost of "All Others" remains at $ 3.50 per pound
(2) Average unit size = 110.00 ounce
(3) Cost of "inorganics" is the range of the most common inorganics in category

High Cost

Category: Multi-purpose Lubricant - TIER II
Subcategory: non-aerosol

Typical noncomp: 25
Proposed Limit: 10

Average Unit Size 110.00 wt oz

Formulation and Cost Comparison

Component (A)	Unit Cost $/lb (B)	Typical Non-compliant wt% (C)	Typical Non-compliant Cost (B)x(C)/100	% VOC Compliant wt% (D)	% VOC Compliant Cost (B)x(D)/100
Petroleum base oil	0.632	40.00	0.25	45.00	0.28
LVP solvent	0.760	35.00	0.27	45.00	0.34
Mineral Spirits	0.800	25.00	0.20	10.00	0.08
SUM		100.00		100.00	
Total Cost, $/pound			0.72		0.71
% Cost Diff. Relative to Current Product					-1.73
Total Cost, $/Unit			4.94		4.86
Recurring Costs C.E., $/lb VOC Reduced					-0.08

Assume:
(1) Cost of "All Others" remains at $ 7.00 per pound
(2) Average unit size = 110.00 ounce
(3) Cost of "inorganics" is the range of the most common inorganics in category

Low Cost

Category: Odor Eliminator/Remover
Subcategory: non-aerosol

Typical noncomp: 9
Proposed Limit: 6

Average Unit Size 130.00 wt oz

Formulation and Cost Comparison

Component (A)	Unit Cost $/lb (B)	Typical Non-compliant wt% (C)	Typical Non-compliant Cost (B)x(C)/100	% VOC Compliant wt% (D)	% VOC Compliant Cost (B)x(D)/100
Water	0.002	83.50	0.00	86.50	0.00
Isopropyl Alcohol	0.720	5.00	0.04	3.00	0.02
VOC Glycol Ether	1.150	3.00	0.03	3.00	0.03
Solvent LVP	0.680	5.00	0.03	5.00	0.03
Fragrance	5.000	3.00	0.15	2.00	0.10
Inorganics	0.09	0.5	0.00	0.5	0.00
	SUM	100.00		100.00	

Total Cost, $/pound	0.26	0.19
% Cost Diff. Relative to Current Product		-25.07
Total Cost, $/Unit	2.09	1.56
Recurring Costs C.E., $/lb VOC Reduced		-2.14

Assume: (1) Cost of "All Others" remains at $ 3.50 per pound
(2) Average unit size = 130.00 ounce

High Cost

Category: Odor Eliminator/Remover
Subcategory: non-aerosol

Typical noncomp: 9
Proposed Limit: 6

Average Unit Size 130.00 wt oz

Formulation and Cost Comparison

Component (A)	Unit Cost $/lb (B)	Typical Non-compliant wt% (C)	Typical Non-compliant Cost (B)x(C)/100	% VOC Compliant wt% (D)	% VOC Compliant Cost (B)x(D)/100
Water	0.002	83.50	0.00	86.50	0.00
Isopropyl Alcohol	0.940	5.00	0.05	3.00	0.03
VOC Glycol Ether	1.200	3.00	0.04	3.00	0.04
Solvent LVP	0.760	5.00	0.04	5.00	0.04
Fragrance	10.000	3.00	0.30	2.00	0.20
Inorganics	0.91	0.5	0.00	0.5	0.00
	SUM	100.00		100.00	

Total Cost, $/pound	0.43	0.31
% Cost Diff. Relative to Current Product		-27.79
Total Cost, $/Unit	3.47	2.51
Recurring Costs C.E., $/lb VOC Reduced		-3.96

Assume: (1) Cost of "All Others" remains at $ 7.00 per pound
(2) Average unit size = 130.00 ounce

Low Cost

Category: Penetrant
Subcategory: Aerosol

Typical noncomp: 50
Proposed Limit: 25

Average Unit Size 12.00 wt oz

Formulation and Cost Comparison

Component (A)	Unit Cost $/lb (B)	Typical Non-compliant wt% (C)	Typical Non-compliant Cost (B)x(C)/100	% VOC Compliant wt% (D)	% VOC Compliant Cost (B)x(D)/100
HC propellant	0.700	20.00	0.14	0.00	0.00
Petroleum base oil	0.404	13.00	0.05	29.00	0.12
LVP Solvent	0.680	32.00	0.22	41.00	0.28
Hydrocarbon solvent	0.540	30.00	0.16	25.00	0.14
Corrosion inhibitor	0.500	5.00	0.03	2.00	0.01
CO2 Propellant	0.270	0	0.00	3	0.01
	SUM	100.00		100.00	

Total Cost, $/pound	0.60	0.55
% Cost Diff. Relative to Current Product		-8.05
Total Cost, $/Unit	0.45	0.41
Recurring Costs C.E., $/lb VOC Reduced		-0.19

Assume: (1) Cost of "All Others" remains at $ 3.50 per pound
(2) Average unit size = 12.00 ounce

High Cost

Category: Penetrant
Subcategory: Aerosol

Typical noncomp: 50
Proposed Limit: 25

Average Unit Size 12.00 wt oz

Formulation and Cost Comparison

Component (A)	Unit Cost $/lb (B)	Typical Non-compliant wt% (C)	Typical Non-compliant Cost (B)x(C)/100	% VOC Compliant wt% (D)	% VOC Compliant Cost (B)x(D)/100
HC propellant	1.050	20.00	0.21	0.00	0.00
Petroleum base oil	0.632	13.00	0.08	29.00	0.18
LVP Solvent	0.760	32.00	0.24	41.00	0.31
Hydrocarbon solvent	0.800	30.00	0.24	25.00	0.20
Corrosion inhibitor	2.000	5.00	0.10	2.00	0.04
CO2 Propellant	0.270	0	0.00	3	0.01
	SUM	100.00		100.00	

Total Cost, $/pound	0.88	0.74
% Cost Diff. Relative to Current Product		-15.12
Total Cost, $/Unit	0.66	0.56
Recurring Costs C.E., $/lb VOC Reduced		-0.53

Assume: (1) Cost of "All Others" remains at $ 7.00 per pound
(2) Average unit size = 12.00 ounce

Low Cost

Category: Penetrant
Subcategory: non-aerosol

Typical noncomp: 50
Proposed Limit: 25

Average Unit Size 110.00 wt oz

Formulation and Cost Comparison

Component (A)	Unit Cost $/lb (B)	Typical Non-compliant wt% (C)	Typical Non-compliant Cost (B)x(C)/100	% VOC Compliant wt% (D)	% VOC Compliant Cost (B)x(D)/100
Petroleum base oil	0.404	12.00	0.05	25.00	0.10
LVP solvent	0.680	38.00	0.26	50.00	0.34
HC solvent	0.540	50.00	0.27	25.00	0.14
SUM		100.00		100.00	
Total Cost, $/pound			0.58		0.58
% Cost Diff. Relative to Current Product					-0.15
Total Cost, $/Unit			3.97		3.96
Recurring Costs C.E., $/lb VOC Reduced					0.00

Assume:
(1) Cost of "All Others" remains at $ 3.50 per pound
(2) Average unit size = 110.00 ounce
(3) Cost of "inorganics" is the range of the most common inorganics in category

High Cost

Category: Penetrant
Subcategory: non-aerosol

Typical noncomp: 26
Proposed Limit: 25

Average Unit Size 110.00 wt oz

Formulation and Cost Comparison

Component (A)	Unit Cost $/lb (B)	Typical Non-compliant wt% (C)	Typical Non-compliant Cost (B)x(C)/100	% VOC Compliant wt% (D)	% VOC Compliant Cost (B)x(D)/100
Petroleum base oil	0.632	12.00	0.08	25.00	0.16
LVP solvent	0.760	38.00	0.29	50.00	0.38
HC solvent	0.800	50.00	0.40	25.00	0.20
SUM		100.00		100.00	
Total Cost, $/pound			0.76		0.74
% Cost Diff. Relative to Current Product					-3.48
Total Cost, $/Unit			5.26		5.07
Recurring Costs C.E., $/lb VOC Reduced					-2.66

Assume:
(1) Cost of "All Others" remains at $ 7.00 per pound
(2) Average unit size = 110.00 ounce
(3) Cost of "inorganics" is the range of the most common inorganics in category

Low Cost

Category: Pressurized Gas Duster
Subcategory: aerosol

Typical noncomp: 1
Proposed Limit: 1

Average Unit Size 10.00 wt oz

Formulation and Cost Comparison

Component (A)	Unit Cost $/lb (B)	Typical Non-compliant wt% (C)	Typical Non-compliant Cost (B)x(C)/100	% VOC Compliant wt% (D)	% VOC Compliant Cost (B)x(D)/100
HFC-134a	2.000	100.00	2.00	0.00	0.00
HFC-152a	1.770	0.00	0.00	99.00	1.75
Bittering Agent	3.500	0.00	0.00	1.00	0.04
SUM		100.00		100.00	

Total Cost, $/pound	2.00	1.79
% Cost Diff. Relative to Current Product		-10.64
Total Cost, $/Unit	1.25	1.12
Recurring Costs C.E., $/metric ton CO_2e Reduced		0.00

Assume:
(1) Cost of "All Others" remains at $ 3.50 per pound
(2) Average unit size = 10.00 ounce
(3) Cost of "inorganics" is the range of the most common inorganics in category

High Cost

Category: Pressurized Gas Duster
Subcategory: aerosol

Typical noncomp: 1
Proposed Limit: 1

Average Unit Size 10.00 wt oz

Formulation and Cost Comparison

Component (A)	Unit Cost $/lb (B)	Typical Non-compliant wt% (C)	Typical Non-compliant Cost (B)x(C)/100	% VOC Compliant wt% (D)	% VOC Compliant Cost (B)x(D)/100
HFC-134a	3.500	100.00	3.50	0.00	0.00
HFC-152a	1.770	0.00	0.00	99.00	1.75
Bittering Agent	7.000	0.00	0.00	1.00	0.07
SUM		100.00		100.00	

Total Cost, $/pound	3.50	1.82
% Cost Diff. Relative to Current Product		-47.93
Total Cost, $/Unit	2.19	1.14
Recurring Costs C.E., $/metric ton CO2e Reduced		-2.66

Assume:
(1) Cost of "All Others" remains at $ 7.00 per pound
(2) Average unit size = 10.00 ounce
(3) Cost of "inorganics" is the range of the most common inorganics in category

Low Cost

Category: Spot Remover
Subcategory: Aerosol

Typical noncomp: 25
Proposed Limit: 15

Average Unit Size 18.00 wt oz

Formulation and Cost Comparison

Component (A)	Unit Cost $/lb (B)	Typical Non-compliant wt% (C)	Typical Non-compliant Cost (B)x(C)/100	% VOC Compliant wt% (D)	% VOC Compliant Cost (B)x(D)/100
HC Propellant	0.700	10.00	0.07	5.00	0.04
2-Butoxyethanol	1.150	10.00	0.12	5.00	0.06
Isopropyl Alcohol	0.720	5.00	0.04	5.00	0.04
LVP Glycol Ether	1.150	5.00	0.06	5.00	0.06
Solvent LVP	0.680	1.00	0.01	3.00	0.02
Inorganics	0.090	2	0.00	2	0.00
Water	0.002	67	0.00	75	0.00
	SUM	100.00		100.00	

Total Cost, $/pound	0.29	0.21
% Cost Diff. Relative to Current Product		-27.30
Total Cost, $/Unit	0.32	0.24
Recurring Costs C.E., $/lb VOC Reduced		-0.79

Assume: (1) Cost of "All Others" remains at $ 3.50 per pound
(2) Average unit size = 18.00 ounce

High Cost

Category: Spot Remover
Subcategory: Aerosol

Typical noncomp: 25
Proposed Limit: 15

Average Unit Size 18.00 wt oz

Formulation and Cost Comparison

Component (A)	Unit Cost $/lb (B)	Typical Non-compliant wt% (C)	Typical Non-compliant Cost (B)x(C)/100	% VOC Compliant wt% (D)	% VOC Compliant Cost (B)x(D)/100
HC Propellant	1.050	10.00	0.11	5.00	0.05
2-Butoxyethanol	1.200	10.00	0.12	5.00	0.06
Isopropyl Alcohol	0.940	5.00	0.05	5.00	0.05
LVP Glycol Ether	1.760	5.00	0.09	5.00	0.09
Solvent LVP	0.760	1.00	0.01	3.00	0.02
Inorganics	0.910	2	0.02	2	0.02
Water	0.002	67	0.00	75	0.00
	SUM	100.00		100.00	

Total Cost, $/pound	0.39	0.29
% Cost Diff. Relative to Current Product		-25.09
Total Cost, $/Unit	0.44	0.33
Recurring Costs C.E., $/lb VOC Reduced		-0.97

Assume: (1) Cost of "All Others" remains at $ 7.00 per pound
(2) Average unit size = 18.00 ounce

Low Cost

Category: Spot Remover
Subcategory: non-aerosol

Typical noncomp: 8
Proposed Limit: 3

Average Unit Size 138.00 wt oz

Formulation and Cost Comparison

Component (A)	Unit Cost $/lb (B)	Typical Non-compliant wt% (C)	Typical Non-compliant Cost (B)x(C)/100	% VOC Compliant wt% (D)	% VOC Compliant Cost (B)x(D)/100
2-Butoxyethanol	1.150	4.00	0.05	3.00	0.03
Isopropyl Alcohol	0.720	4.00	0.03	0.00	0.00
Solvent LVP	0.680	1.00	0.01	5.00	0.03
Inorganics	0.090	5.00	0.00	3.00	0.00
Water	0.002	86.00	0.00	89.00	0.00
SUM		100.00		100.00	
Total Cost, $/pound			0.09		0.07
% Cost Diff. Relative to Current Product					-16.90
Total Cost, $/Unit			0.76		0.63
Recurring Costs C.E., $/lb VOC Reduced					-0.30

Assume:
(1) Cost of "All Others" remains at $ 3.50 per pound
(2) Average unit size = 138.00 ounce
(3) Cost of "inorganics" is the range of the most common inorganics in category

High Cost

Category: Spot Remover
Subcategory: non-aerosol

Typical noncomp: 26
Proposed Limit: 3

Average Unit Size 138.00 wt oz

Formulation and Cost Comparison

Component (A)	Unit Cost $/lb (B)	Typical Non-compliant wt% (C)	Typical Non-compliant Cost (B)x(C)/100	% VOC Compliant wt% (D)	% VOC Compliant Cost (B)x(D)/100
2-Butoxyethanol	1.200	4.00	0.05	3.00	0.04
Isopropyl Alcohol	0.940	4.00	0.04	0.00	0.00
Solvent LVP	0.760	1.00	0.01	5.00	0.04
Inorganics	0.910	5.00	0.05	3.00	0.03
Water	0.002	86.00	0.00	89.00	0.00
SUM		100.00		100.00	
Total Cost, $/pound			0.14		0.10
% Cost Diff. Relative to Current Product					-26.59
Total Cost, $/Unit			1.21		0.89
Recurring Costs C.E., $/lb VOC Reduced					-0.16

Assume:
(1) Cost of "All Others" remains at $ 7.00 per pound
(2) Average unit size = 138.00 ounce
(3) Cost of "inorganics" is the range of the most common inorganics in category

Low Cost

Category: Astringents & Toner
Subcategory: liquid

Typical noncomp: 48.5
Proposed Limit: 35

Average Unit Size 8.00 wt oz

Formulation and Cost Comparison

Component (A)	Unit Cost $/lb (B)	Typical Non-compliant wt% (C)	Typical Non-compliant Cost (B)x(C)/100	% VOC Compliant wt% (D)	% VOC Compliant Cost (B)x(D)/100
Ethanol	0.457	48.50	0.22	33.00	0.15
Solvent LVP	0.680	1.00	0.01	1.00	0.01
Water	0.002	49.00	0.00	57.00	0.00
Fragrance	5.000	0.50	0.03	0.50	0.03
LVP Glycols	0.620	1.00	0.00	8.50	0.05
SUM		100.00		100.00	

Total Cost, $/pound	0.25	0.24
% Cost Diff. Relative to Current Product		-7.06
Total Cost, $/Unit	0.13	0.12
Recurring Costs C.E., $/lb VOC Reduced		-0.13

Assume:
(1) Cost of "All Others" remains at $ 3.50 per pound
(2) Average unit size = 8.00 ounce
(3) Cost of "inorganics" is the range of the most common inorganics in category

High Cost

Category: Astringents & Toner
Subcategory: liquid

Typical noncomp: 48.5
Proposed Limit: 35

Average Unit Size 8.00 wt oz

Formulation and Cost Comparison

Component (A)	Unit Cost $/lb (B)	Typical Non-compliant wt% (C)	Typical Non-compliant Cost (B)x(C)/100	% VOC Compliant wt% (D)	% VOC Compliant Cost (B)x(D)/100
Ethanol	0.510	48.50	0.25	33.00	0.17
Solvent LVP	0.760	1.00	0.01	1.00	0.01
Water	0.002	49.00	0.00	57.00	0.00
Fragrance	10.000	0.50	0.05	0.50	0.05
LVP Glycols	0.960	1.00	0.01	8.50	0.08
SUM		100.00		100.00	

Total Cost, $/pound	0.32	0.31
% Cost Diff. Relative to Current Product		-2.18
Total Cost, $/Unit	0.16	0.15
Recurring Costs C.E., $/lb VOC Reduced		-0.05

Assume:
(1) Cost of "All Others" remains at $ 7.00 per pound
(2) Average unit size = 8.00 ounce
(3) Cost of "inorganics" is the range of the most common inorganics in category

Low Cost

Category: Personal Fragrance
Subcategory: Aerosol

Typical noncomp: 80
Proposed Limit: 75

Average Unit Size 3.50 wt oz

Formulation and Cost Comparison

Component (A)	Unit Cost $/lb (B)	Typical Non-compliant wt% (C)	Typical Non-compliant Cost (B)x(C)/100	% VOC Compliant wt% (D)	% VOC Compliant Cost (B)x(D)/100
Non-solvent LVP	3.500	7.00	0.25	9.00	0.32
Alcohol	0.457	50.00	0.23	50.00	0.23
HC Propellant	0.700	30.00	0.21	25.00	0.18
Fragrance	5.000	5.00	0.25	4.00	0.20
Inorganics	0.090	2.00	0.00	2.00	0.00
Water	0.002	6	0.00	10	0.00
	SUM	100.00		100.00	

Total Cost, $/pound	0.94	0.92
% Cost Diff. Relative to Current Product		-1.60
Total Cost, $/Unit	0.20	0.20
Recurring Costs C.E., $/lb VOC Reduced		-0.30

Assume: (1) Cost of "All Others" remains at $ 3.50 per pound
(2) Average unit size = 3.50 ounce

High Cost

Category: Personal Fragrance
Subcategory: Aerosol

Typical noncomp: 80
Proposed Limit: 75

Average Unit Size 3.50 wt oz

Formulation and Cost Comparison

Component (A)	Unit Cost $/lb (B)	Typical Non-compliant wt% (C)	Typical Non-compliant Cost (B)x(C)/100	% VOC Compliant wt% (D)	% VOC Compliant Cost (B)x(D)/100
Non-solvent LVP	7.000	7.00	0.49	9.00	0.63
Alcohol	0.940	50.00	0.47	50.00	0.47
HC Propellant	1.050	30.00	0.32	25.00	0.26
Fragrance	10.000	5.00	0.50	4.00	0.40
Inorganics	0.910	2.00	0.02	2.00	0.02
Water	0.002	6	0.00	10	0.00
	SUM	100.00		100.00	

Total Cost, $/pound	1.79	1.78
% Cost Diff. Relative to Current Product		-0.69
Total Cost, $/Unit	0.39	0.39
Recurring Costs C.E., $/lb VOC Reduced		-0.25

Assume: (1) Cost of "All Others" remains at $ 7.00 per pound
(2) Average unit size = 3.50 ounce

Low Cost

Category: Personal Fragrance
Subcategory: non-aerosol

Typical noncomp: 80
Proposed Limit: 75

Average Unit Size 3.50 wt oz

Formulation and Cost Comparison

Component (A)	Unit Cost $/lb (B)	Typical Non-compliant wt% (C)	Typical Non-compliant Cost (B)x(C)/100	% VOC Compliant wt% (D)	% VOC Compliant Cost (B)x(D)/100
Non-solvent LVP	3.500	0.50	0.02	0.50	0.02
Alcohol	0.457	80.00	0.37	75.00	0.34
Fragrance	5.000	15.00	0.75	15.00	0.75
Inorganics	0.090	0.50	0.00	0.50	0.00
Water	0.002	4.00	0.00	9.00	0.00
	SUM	100.00		100.00	
	Total Cost, $/pound		1.13		1.11
	% Cost Diff. Relative to Current Product				-2.01
	Total Cost, $/Unit		0.25		0.24
	Recurring Costs C.E., $/lb VOC Reduced				-0.46

Assume:
(1) Cost of "All Others" remains at $ 3.50 per pound
(2) Average unit size = 3.50 ounce
(3) Cost of "inorganics" is the range of the most common inorganics in category

High Cost

Category: Personal Fragrance
Subcategory: non-aerosol

Typical noncomp: 80
Proposed Limit: 75

Average Unit Size 3.50 wt oz

Formulation and Cost Comparison

Component (A)	Unit Cost $/lb (B)	Typical Non-compliant wt% (C)	Typical Non-compliant Cost (B)x(C)/100	% VOC Compliant wt% (D)	% VOC Compliant Cost (B)x(D)/100
Non-solvent LVP	7.000	0.50	0.04	0.50	0.04
Alcohol	0.940	80.00	0.75	75.00	0.71
Fragrance	10.000	15.00	1.50	15.00	1.50
Inorganics	0.910	0.50	0.00	0.50	0.00
Water	0.002	4.00	0.00	9.00	0.00
	SUM	100.00		100.00	
	Total Cost, $/pound		2.29		2.24
	% Cost Diff. Relative to Current Product				-2.05
	Total Cost, $/Unit		0.50		0.49
	Recurring Costs C.E., $/lb VOC Reduced				-0.94

Assume:
(1) Cost of "All Others" remains at $ 7.00 per pound
(2) Average unit size = 3.50 ounce
(3) Cost of "inorganics" is the range of the most common inorganics in category