

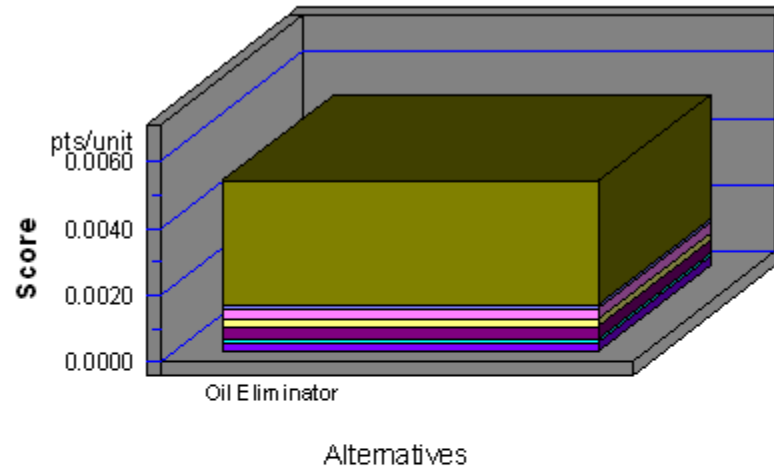
BEES Results: Microbial Cleaners

Units: 1 gallon of microbial cleaner, as used

Sound Environmental Products' Sound 3300 Oil Eliminator: BEED ID# R2012A/ BioPreferred ID# QO3C-0005

Environmental Performance

Acidification
Crit. Air Pollutants
Ecological Toxicity
Eutrophication
Fossil Fuel Depletion
Global Warming
Habitat Alteration
Human Health
Indoor Air
Ozone Depletion
Smog
Water Intake



Note: Lower values are better

Category	Oil Elimtr
Acidification-3%	0.0000
Crit. Air Pollutants-9%	0.0000
Ecolog. Toxicity-7%	0.0037
Eutrophication-6%	0.0001
Fossil Fuel Depl.-10%	0.0003
Global Warming-29%	0.0002
Habitat Alteration-6%	0.0000
Human Health-13%	0.0004
Indoor Air-3%	0.0000
Ozone Depletion-2%	0.0000
Smog-4%	0.0001
Water Intake-8%	0.0003
Sum	0.0051

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Microbial Cleaners		
Impacts	Units	Sound 3300 Oil Eliminator
Acidification	millimoles H ⁺ equivalents	1.96E+02
Criteria Air Pollutants	microDALYs	3.53E-02
Ecotoxicity	g 2,4-D equivalents	4.29E+01
Eutrophication	g N equivalents	4.68E-01
Fossil Fuel Depletion	MJ surplus energy	1.08E+00
Global Warming	g CO ₂ equivalents	1.51E+02
Habitat Alteration	T&E count	2.29E-11
Human Health--Cancer	g C ₆ H ₆ equivalents	2.73E-01
Human Health--NonCancer	g C ₇ H ₈ equivalents	2.60E+02
Indoor Air Quality	g TVOCs	0.00E+00
Ozone Depletion	g CFC-11 equivalents	7.02E-06
Smog	g NO _x equivalents	5.01E+00
Water Intake	liters of water	2.20E+01
Functional Unit	-----	1 gallon of microbial cleaner, as used

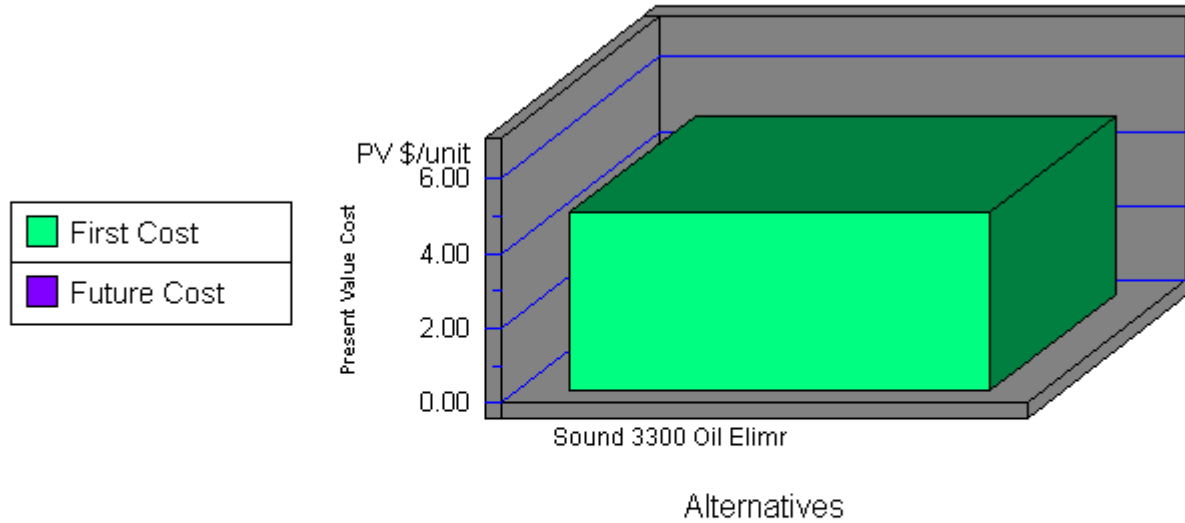
1 Following are more complete descriptions of units:
 Acidification: millimoles of hydrogen ion equivalents; Criteria Air Pollutants: micro Disability-Adjusted Life Years; Ecological Toxicity: grams of 2,4-dichlorophenoxy-acetic acid equivalents; Eutrophication: grams of nitrogen equivalents; Fossil Fuel Depletion: megajoules of surplus energy; Global Warming: grams of carbon dioxide equivalents; Habitat Alteration: threatened and endangered species count; Human Health-Cancer: grams of benzene equivalents; Human Health-NonCancer: grams of toluene equivalents; Indoor Air Quality: grams of Total Volatile Organic Compounds; Ozone Depletion: grams of chloroflourocarbon-11 equivalents; Smog: grams of nitrogen oxide equivalents; and Water Intake: liters of water.

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Economic Performance*



Category	3300 Elim
First Cost	4.80
Future Cost-- 3.9%	0.00
Sum	4.80

*This is a consumable product. Therefore, future costs are not calculated.

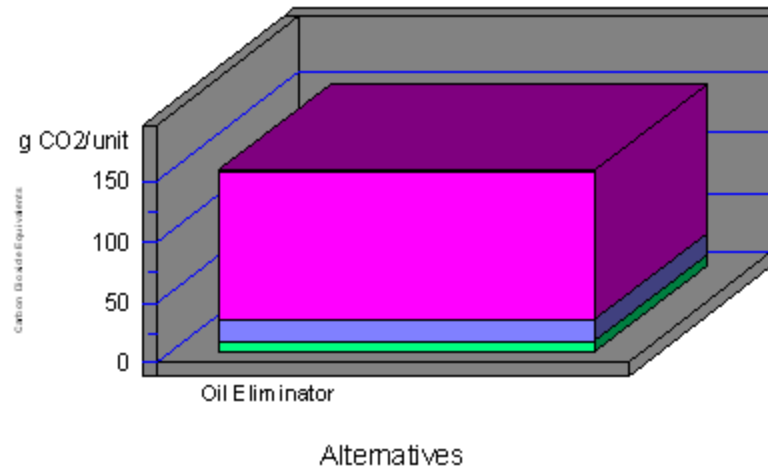
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Global Warming by Flow

Carbon Dioxide
Carbon Tetrachloride
Carbon Tetrafluoride
CFC 12
Chloroform
Halon 1301
HCFC 22
Methane
Methyl Bromide
Methyl Chloride
Methylene Chloride
Nitrous Oxide
Trichloroethane



Note: Lower values are better

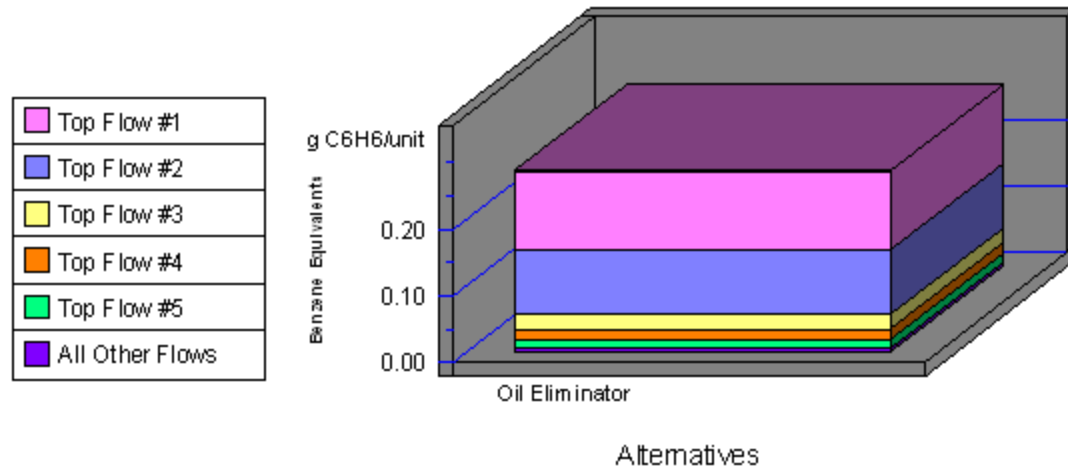
Category	Oil Elimtr
(a) Carbon Dioxide (CO ₂ , net)	124
(a) Carbon Tetrachloride (CCl ₄)	0
(a) Carbon Tetrafluoride (CF ₄)	0
(a) CFC 12 (CCl ₂ F ₂)	0
(a) Chloroform (CHCl ₃ , HC-20)	0
(a) Halon 1301 (CF ₃ Br)	0
(a) HCFC 22 (CHF ₂ Cl)	0
(a) Methane (CH ₄)	18
(a) Methyl Bromide (CH ₃ Br)	0
(a) Methyl Chloride (CH ₃ Cl)	0
(a) Methylene Chloride (CH ₂ Cl ₂)	0
(a) Nitrous Oxide (N ₂ O)	9
(a) Trichloroethane (1,1,1-CH ₃ CCl ₃)	0
Sum	151

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Human Health Cancer by Sorted Flows*



Note: Lower values are better

Category	Oil Elimtr
Cancer-(w) Arsenic (As3+, As5+)	0.12
Cancer-(w) Phenol (C6H5OH)	0.09
Cancer-(a) Dioxins (unspec ifie)	0.02
Cancer-(a) Arsenic (As)	0.02
Cancer-(a) Simazine	0.01
All Others	0.01
Sum	0.27

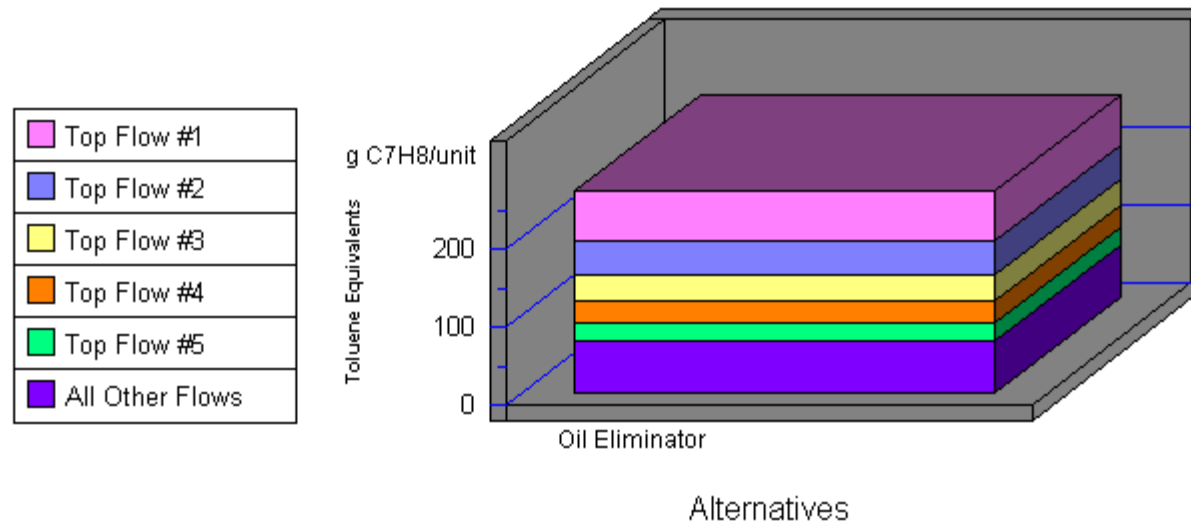
*Sorted by five topmost flows for worst-scoring product

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Human Health Noncancer by Sorted Flows*



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Category	Oil Elimtr
Noncancer--(w) Barium (Ba++)	63.84
Noncancer--(a) Mercury (Hg)	44.55
Noncancer--(w) Lead (Pb++, Pb4+	31.86
Noncancer--(a) Dioxins (unspeci	29.19
Noncancer--(a) Lead (Pb)	22.28
All Others	68.25
Sum	259.95

*Sorted by five topmost flows for worst-scoring product