

**BEES Results: Floor Cleaners**

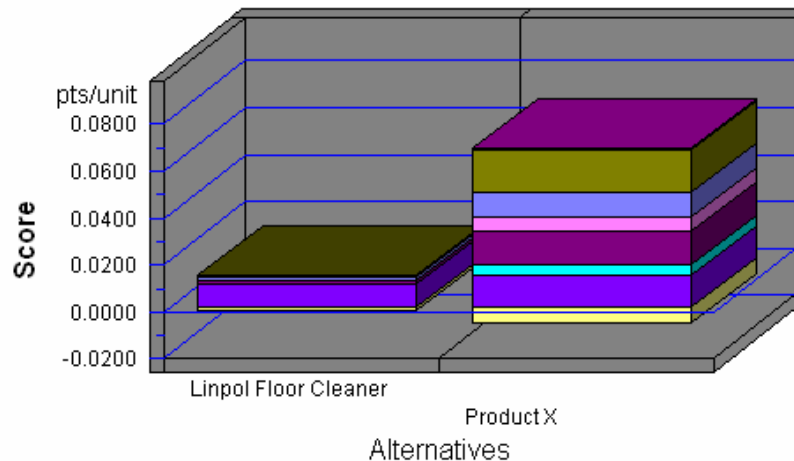
**Units: 100 gallons, as used**

Genesan's Linpol Floor Cleaner: BEED ID# R5014A/ BioPreferred ID# UGGS-0001

Product X: BEES ID# R5014B

### 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	Linpol	Product X
Acidification--3%	0.0000	0.0000
Crit. Air Pollutants--9%	0.0001	0.0013
Ecolog. Toxicity--7%	0.0006	0.0178
Eutrophication--6%	0.0014	0.0109
Fossil Fuel Depl.--10%	0.0004	0.0058
Global Warming--29%	-0.0013	-0.0070
Habitat Alteration--6%	0.0000	0.0000
Human Health--13%	0.0011	0.0140
Indoor Air--3%	0.0000	0.0000
Ozone Depletion--2%	0.0000	0.0000
Smog--4%	0.0003	0.0043
Water Intake--8%	0.0095	0.0138
<b>Sum</b>	<b>0.0121</b>	<b>0.0609</b>

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Floor Cleaners			
Impacts	Units	Genesan Linpol	Product X
Acidification	millimoles H <sup>+</sup> equivalents	5.28E+02	8.69E+03
Criteria Air Polutants	microDALYs	1.50E-01	2.86E+00
Ecotoxicity	g 2,4-D equivalents	7.19E+00	2.08E+02
Eutrophication	g N equivalents	4.42E+00	3.51E+01
Fossil Fuel Depletion	MJ surplus energy	1.40E+00	2.06E+01
Global Warming	g CO <sub>2</sub> equivalents	-1.17E+03	-6.18E+03
Habitat Alteration	T&E count	0.00E+00	0.00E+00
Human Health--Cancer	g C <sub>6</sub> H <sub>6</sub> equivalents	7.09E-01	8.94E+00
Human Health--NonCancer	g C <sub>7</sub> H <sub>8</sub> equivalents	1.18E+03	8.70E+03
Indoor Air Quality	g TVOCs	0.00E+00	0.00E+00
Ozone Depletion	g CFC-11 equivalents	5.95E-06	4.05E-04
Smog	g NO <sub>x</sub> equivalents	1.08E+01	1.63E+02
Water Intake	liters of water	6.30E+02	9.13E+02
Functional Unit	-----	100 gallons of floor 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 chloroflouorocarbon-11 equivalents; Smog: grams of nitrogen oxide equivalents; and Water Intake: liters of water.

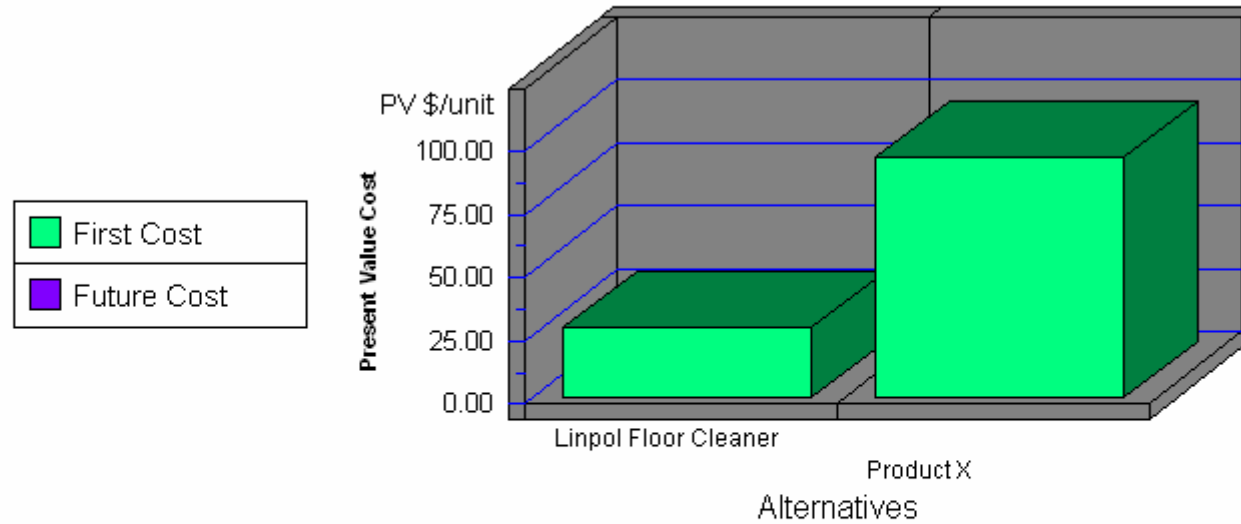
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### Economic Performance\*



Category	Linpol	Product X
First Cost	28.00	94.95
Future Cost-- 3.0%	0.00	0.00
<b>Sum</b>	<b>28.00</b>	<b>94.95</b>

\*No significant/quantifiable performance differences were identified among competing alternatives. Therefore, future costs were not calculated.

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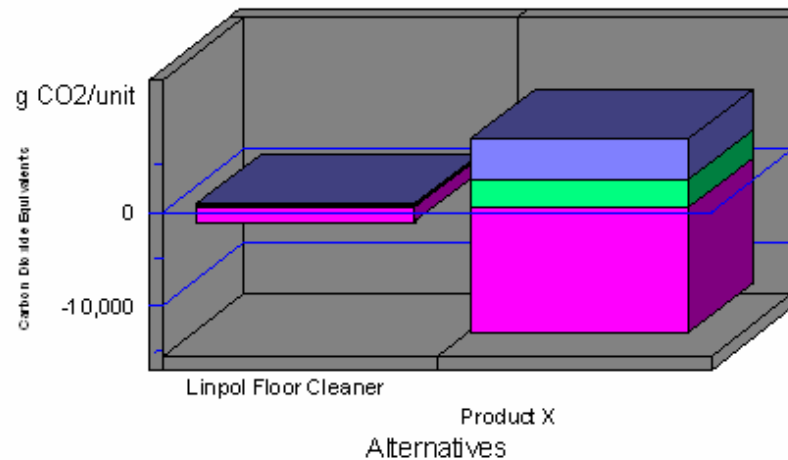
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**Global Warming by Flow**

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	Linpol	Product X
(a) Carbon Dioxide (CO <sub>2</sub> , net)	-1507	-13522
(a) Carbon Tetrachloride (CCl <sub>4</sub> )	0	0
(a) Carbon Tetrafluoride (CF <sub>4</sub> )	0	0
(a) CFC 12 (CCl <sub>2</sub> F <sub>2</sub> )	0	0
(a) Chloroform (CHCl <sub>3</sub> , HC-20)	0	0
(a) Halon 1301 (CF <sub>3</sub> Br)	0	0
(a) HCFC 22 (CHF <sub>2</sub> Cl)	0	0
(a) Methane (CH <sub>4</sub> )	146	4490
(a) Methyl Bromide (CH <sub>3</sub> Br)	0	0
(a) Methyl Chloride (CH <sub>3</sub> Cl)	0	0
(a) Methylene Chloride (CH <sub>2</sub> Cl <sub>2</sub> )	0	0
(a) Nitrous Oxide (N <sub>2</sub> O)	195	2852
(a) Trichloroethane (1,1,1-CH <sub>3</sub> Cl)	0	0
<b>Sum</b>	<b>-1166</b>	<b>-6180</b>

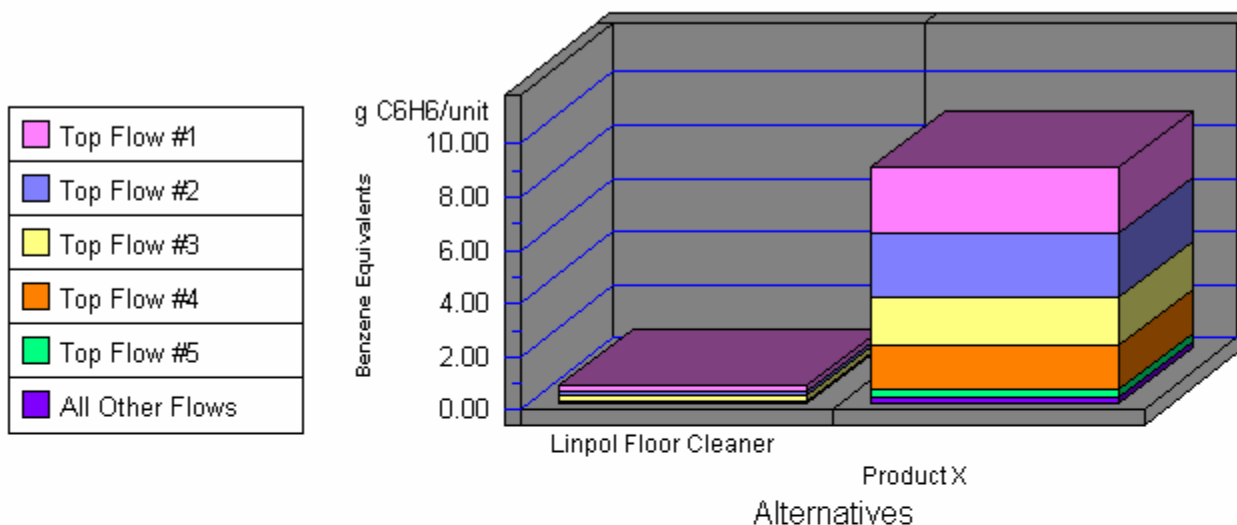
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**Human Health Cancer by Sorted Flows\***



**Note: Lower values are better**

Category	Linpol	Product X
Cancer--(w) Arsenic (As3+, As5+	0.25	2.54
Cancer--(w) Phenol (C6H5OH)	0.15	2.34
Cancer--(a) Dioxins (unspecifie	0.22	1.81
Cancer--(a) Arsenic (As)	0.06	1.69
Cancer--(a) Bromoxynil (C7H3Br2	0.00	0.30
All Others	0.04	0.25
<b>Sum</b>	<b>0.71</b>	<b>8.94</b>

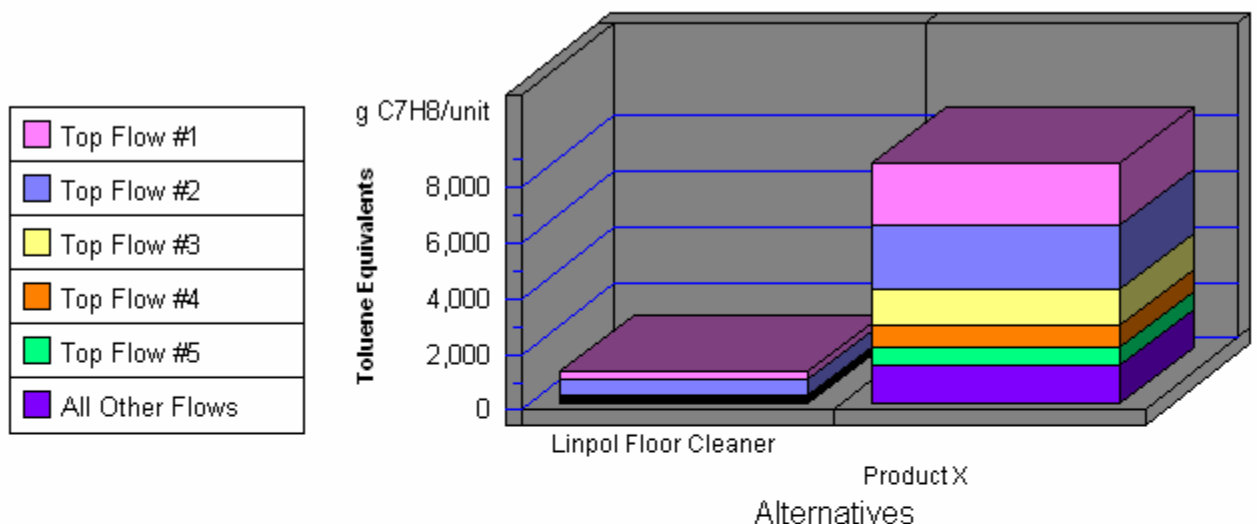
\*Sorted by five topmost flows for worst-scoring product

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**Units: 100 gallons, as used**

**Human Health Noncancer by Sorted Flows\***



**Note: Lower values are better**

Category	Linpol	Product X
Noncancer--(a) Dioxins (unspeci	274.25	2,285.50
Noncancer--(a) Mercury (Hg)	558.52	2,248.63
Noncancer--(w) Barium (Ba++)	97.47	1,315.77
Noncancer--(a) Lead (Pb)	71.23	831.14
Noncancer--(w) Lead (Pb++, Pb4+	49.55	622.17
All Others	125.61	1,393.06
<b>Sum</b>	<b>1,176.63</b>	<b>8,696.27</b>

\*Sorted by five topmost flows for worst-scoring product