

BEES Impact Values

Round 5

Chain and Cable Lubricants				
Impacts	Units ¹	J7A3-0005	RGWJ-0013	RDO8-0029
Acidification	millimoles H ⁺ equivalents	7.21E+03	6.47E+03	5.13E+03
Criteria Air Pollutants	microDALYs	5.32E-01	4.67E-01	8.40E-01
Ecological Toxicity	g 2,4-D equivalents	7.71E+01	6.97E+01	1.95E+03
Eutrophication	g N equivalents	1.05E+02	9.46E+01	2.46E+02
Fossil Fuel Depletion	MJ surplus energy	4.36E+01	3.99E+01	8.36E+01
Global Warming	g CO ₂ equivalents	9.71E+03	8.66E+03	2.95E+04
Habitat Alteration	T&E count	0.00E+00	0.00E+00	0.00E+00
Human Health	g C ₇ H ₈ equivalents	6.15E+04	5.48E+04	3.16E+05
Indoor Air Quality	g TVOCs	0.00E+00	0.00E+00	0.00E+00
Ozone Depletion	g CFC-11 equivalents	1.15E-07	9.69E-08	1.30E-04
Smog	g NO _x equivalents	1.24E+02	1.12E+02	9.59E+01
Water Intake	liters of water	1.43E+03	1.29E+03	6.53E+03
Functional Unit	-----		1 gallon	

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: 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.

BEES Impact Values

Round 5

Corrosion Preventatives			
Impacts	Units ¹	BP37-0003	RGWJ-0053
Acidification	millimoles H ⁺ equivalents	1.33E+04	2.60E+04
Criteria Air Pollutants	microDALYs	1.79E+00	2.18E+00
Ecological Toxicity	g 2,4-D equivalents	1.41E+02	2.91E+02
Eutrophication	g N equivalents	1.20E+02	3.60E+02
Fossil Fuel Depletion	MJ surplus energy	6.52E+02	3.01E+02
Global Warming	g CO ₂ equivalents	1.99E+04	3.75E+04
Habitat Alteration	T&E count	0.00E+00	0.00E+00
Human Health	g C ₇ H ₈ equivalents	5.59E+05	2.36E+07
Indoor Air Quality	g TVOCs	0.00E+00	0.00E+00
Ozone Depletion	g CFC-11 equivalents	1.98E-06	1.88E-05
Smog	g NO _x equivalents	2.45E+02	4.54E+02
Water Intake	liters of water	1.57E+03	4.87E+03
Functional Unit	-----	5 gallons	

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: 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;

BEES Impact Values

Round 5

Food Cleaners		
Impacts	Units ¹	ULHI-0022
Acidification	millimoles H ⁺ equivalents	8.18E+01
Criteria Air Pollutants	microDALYs	2.16E-02
Ecological Toxicity	g 2,4-D equivalents	7.74E-01
Eutrophication	g N equivalents	1.04E-01
Fossil Fuel Depletion	MJ surplus energy	2.43E+00
Global Warming	g CO ₂ equivalents	1.48E+02
Habitat Alteration	T&E count	0.00E+00
Human Health	g C ₇ H ₈ equivalents	2.11E+03
Indoor Air Quality	g TVOCs	0.00E+00
Ozone Depletion	g CFC-11 equivalents	7.98E-08
Smog	g NO _x equivalents	1.09E+00
Water Intake	liters of water	4.39E+00
Functional Unit	-----	1 gallon

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: 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

BEES Impact Values

Round 5

Forming Lubricants		
Impacts	Units ¹	AJTK-0034
Acidification	millimoles H ⁺ equivalents	1.32E+03
Criteria Air Pollutants	microDALYs	2.67E-01
Ecological Toxicity	g 2,4-D equivalents	3.27E+01
Eutrophication	g N equivalents	1.13E+01
Fossil Fuel Depletion	MJ surplus energy	7.60E+01
Global Warming	g CO ₂ equivalents	4.45E+03
Habitat Alteration	T&E count	0.00E+00
Human Health	g C ₇ H ₈ equivalents	6.00E+04
Indoor Air Quality	g TVOCs	0.00E+00
Ozone Depletion	g CFC-11 equivalents	2.59E-05
Smog	g NO _x equivalents	2.56E+01
Water Intake	liters of water	1.64E+02
Functional Unit	-----	1 gallon

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: 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

BEES Impact Values

Round 5

Gear Lubricants			
Impacts	Units	RGWJ-0042	AJTK-0047
Acidification	millimoles H ⁺ equivalents	2.50E+04	1.02E+04
Criteria Air Pollutants	microDALYs	2.79E+00	2.96E+00
Ecological Toxicity	g 2,4-D equivalents	2.42E+02	2.87E+02
Eutrophication	g N equivalents	3.08E+02	4.70E+01
Fossil Fuel Depletion	MJ surplus energy	4.79E+02	4.53E+02
Global Warming	g CO ₂ equivalents	3.58E+04	3.42E+04
Habitat Alteration	T&E count	0.00E+00	0.00E+00
Human Health	g C ₇ H ₈ equivalents	1.25E+06	5.53E+05
Indoor Air Quality	g TVOCs	0.00E+00	0.00E+00
Ozone Depletion	g CFC-11 equivalents	1.35E-06	1.04E-05
Smog	g NO _x equivalents	4.13E+02	1.63E+02
Water Intake	liters of water	5.90E+03	6.33E+02
Functional Unit	-----	5 gallons	

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: grams of toluene equivalents; Indoor Air Quality: grams of Total Volatile Organic Compounds; Ozone Depletion: grams of chlorofluorocarbon-11 equivalents; Smog: grams of nitrogen oxide equivalents;

BEES Impact Values

Round 5

General Purpose Household Cleaners			
Impacts	Units	J3TP-0001	H96J-0002
Acidification	millimoles H ⁺ equivalents	4.08E+03	1.51E+03
Criteria Air Pollutants	microDALYs	1.03E+00	6.57E-01
Ecological Toxicity	g 2,4-D equivalents	3.51E+02	8.76E+00
Eutrophication	g N equivalents	2.78E+01	3.24E+00
Fossil Fuel Depletion	MJ surplus energy	1.75E+02	3.88E+01
Global Warming	g CO ₂ equivalents	1.36E+04	3.00E+03
Habitat Alteration	T&E count	0.00E+00	0.00E+00
Human Health	g C ₇ H ₈ equivalents	1.09E+05	3.06E+04
Indoor Air Quality	g TVOCs	0.00E+00	0.00E+00
Ozone Depletion	g CFC-11 equivalents	1.95E-04	2.28E-06
Smog	g NO _x equivalents	6.93E+01	2.36E+01
Water Intake	liters of water	3.89E+02	2.09E+01
Functional Unit	-----	5 gallons	

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: grams of toluene equivalents; Indoor Air Quality: grams of Total Volatile Organic Compounds; Ozone Depletion: grams of chlorofluorocarbon-11 equivalents; Smog: grams of nitrogen oxide equivalents; and Water Intake: liters of water.

BEES Impact Values

Round 5

Industrial Cleaners				
Impacts	Units	BP37-0038	X3UX-0001	SC8J-0002
Acidification	millimoles H ⁺ equivalents	4.33E+02	1.11E+04	3.40E+04
Criteria Air Pollutants	microDALYs	1.34E-01	3.56E+00	1.62E+01
Ecological Toxicity	g 2,4-D equivalents	7.95E+01	2.34E+02	7.65E+01
Eutrophication	g N equivalents	9.71E-01	5.87E+01	4.52E+01
Fossil Fuel Depletion	MJ surplus energy	1.67E+01	4.70E+02	1.33E+02
Global Warming	g CO ₂ equivalents	9.53E+02	3.26E+04	1.58E+05
Habitat Alteration	T&E count	0.00E+00	0.00E+00	0.00E+00
Human Health	g C ₇ H ₈ equivalents	4.94E+03	2.91E+05	1.03E+05
Indoor Air Quality	g TVOCs	0.00E+00	0.00E+00	0.00E+00
Ozone Depletion	g CFC-11 equivalents	1.66E-08	2.21E-04	5.19E-06
Smog	g NO _x equivalents	1.55E+01	1.39E+02	1.98E+02
Water Intake	liters of water	4.87E+01	6.23E+02	2.87E+02
Functional Unit	-----		5 gallons	

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: grams of toluene equivalents; Indoor Air Quality: grams of Total Volatile Organic Compounds; Ozone Depletion: grams of

BEES Impact Values

Round 5

Multipurpose Cleaners		
Impacts	Units	VWD1-0002
Acidification	millimoles H ⁺ equivalents	2.91E+03
Criteria Air Pollutants	microDALYs	1.19E+00
Ecological Toxicity	g 2,4-D equivalents	1.58E+02
Eutrophication	g N equivalents	1.75E+01
Fossil Fuel Depletion	MJ surplus energy	5.12E+01
Global Warming	g CO ₂ equivalents	4.68E+03
Habitat Alteration	T&E count	0.00E+00
Human Health	g C ₇ H ₈ equivalents	4.71E+04
Indoor Air Quality	g TVOCs	0.00E+00
Ozone Depletion	g CFC-11 equivalents	4.53E-06
Smog	g NO _x equivalents	6.51E+01
Water Intake	liters of water	4.00E+03
Functional Unit	-----	1000 gallons, dilluted RTU

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 engangered species count; Human Health: grams of toluene equivalents; Indoor Air Quality: grams of Total Volatile Organic

BEES Impact Values

Round 5

Parts Wash Solutions			
Impacts	Units	ZR7U-0001	Y8EG-0008
Acidification	millimoles H ⁺ equivalents	2.87E+03	1.96E+03
Criteria Air Pollutants	microDALYs	1.12E+00	5.94E-01
Ecological Toxicity	g 2,4-D equivalents	7.14E+01	4.01E+01
Eutrophication	g N equivalents	8.83E+00	1.07E+01
Fossil Fuel Depletion	MJ surplus energy	1.30E+02	7.64E+01
Global Warming	g CO ₂ equivalents	7.56E+03	5.10E+03
Habitat Alteration	T&E count	0.00E+00	0.00E+00
Human Health	g C ₇ H ₈ equivalents	7.54E+04	5.52E+04
Indoor Air Quality	g TVOCs	0.00E+00	0.00E+00
Ozone Depletion	g CFC-11 equivalents	1.10E-05	2.03E-06
Smog	g NO _x equivalents	3.03E+01	2.15E+01
Water Intake	liters of water	9.26E+01	1.17E+02
Functional Unit	-----	1 gallon	

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: grams of toluene equivalents; Indoor Air Quality: grams of Total Volatile Organic Compounds; Ozone Depletion: grams of chlorofluorocarbon-11 equivalents; Smog: grams of nitrogen oxide equivalents;