

bill of materials



hand lotion

- ingredients:
- petrolatum
 - mineral oil
 - shea butter
 - lanolin
 - dimethicone
 - hyaluronic acid
 - lactic acid
 - urea

- packaging:
- bottle x1 (4oz)
 - polyethylene
 - terephthalate
 - cap x1 (24mm 118")
 - polypropylene
 - pressure liner x1
 - polystyrene



hand sanitizer

- ingredients:
- water
 - isopropyl alcohol
 - capyrllyl glycol
 - glycerin
 - tocopheryl acetate
 - parfum

- packaging:
- bottle x1 (4oz)
 - polyethylene
 - terephthalate
 - cap x1 (24mm 118")
 - polypropylene
 - pressure liner x1
 - polystyrene



bodywash

- ingredients:
- water
 - cocamide
 - sodium hydroxypropyl
 - lauric acid
 - sodium lauroyl
 - soybean oil
 - sodium chloride

- packaging:
- bottle x1 (8oz)
 - low density polyethylene
 - pump x1 (24mm)
 - valve (LDPE)
 - piston (LDPE)
 - spring (STN STL)
 - glassball (glass)



shampoo

- ingredients:
- water
 - surfactant
 - cocamide
 - sodium citrate
 - dimethicone
 - polyquaternium
 - panthenol
 - urea

- packaging:
- bottle x1 (8oz)
 - low density polyethylene
 - pump x1 (24mm)
 - valve (LDPE)
 - piston (LDPE)
 - spring (STN STL)
 - glassball (glass)

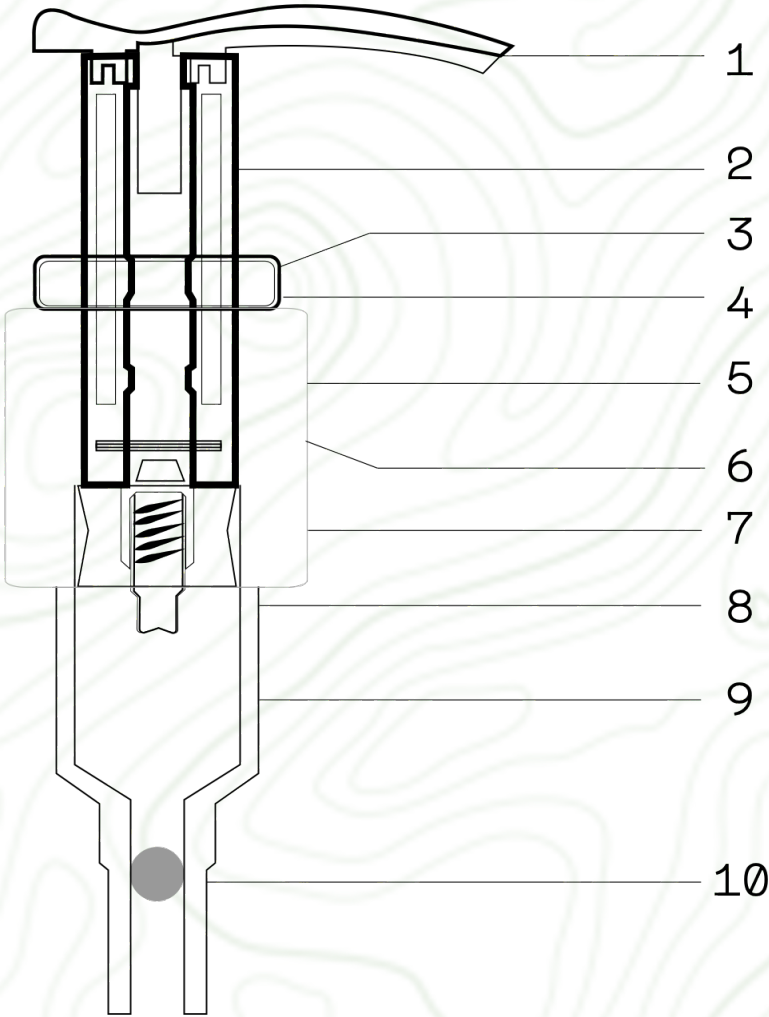


hand soap

- ingredients:
- sodium benzoate
 - sodium laureth
 - methyliso
 - cocamide
 - parfum
 - dyes (color)
 - PH adjuster

- packaging:
- bottle x1 (6oz)
 - low density polyethylene
 - pump x1 (24mm)
 - valve (LDPE)
 - piston (LDPE)
 - spring (STN STL)
 - glassball (glass)

okala score: bottle pump



no.	component	material	quantity	/unit	impact	co2
1	nozzle head	pp	1	.0375 lbs	.002	.002
2	piston rod	pp	1			
3	lock ring	pp	1			
4	gasket	pp	1			
5	closure	pp	1	.011 lbs	.0008	.0002
6	spring	stn stl	1			
7	piston	ldpe	1	.003 lbs	.002	.0012
8	valve needle	ldpe	1			
9	pump body	ldpe	1			
10	glass ball	glass	1	.007 lbs	.003	.002

okala score: 6oz bottle



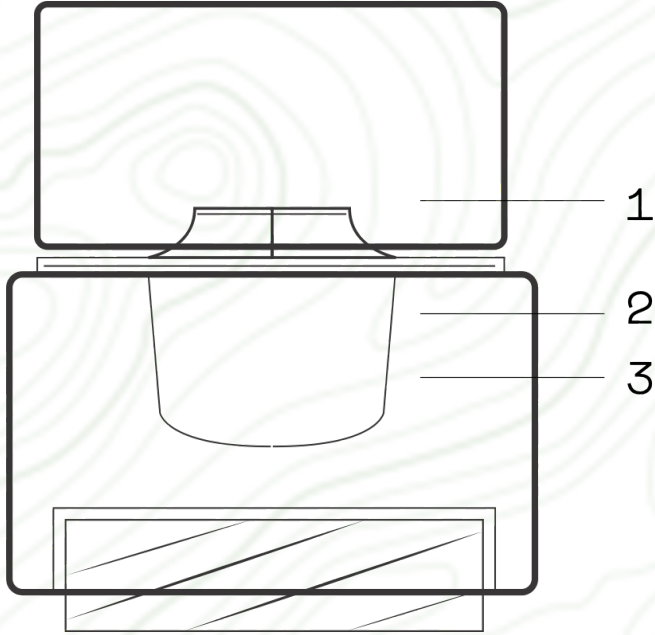
no.	component	material	quantity	/unit	impact	co2
1	24m reciever	pet	1	.063 lbs	.00033	.031
2	body	pet	1			

okala score: 4oz bottle

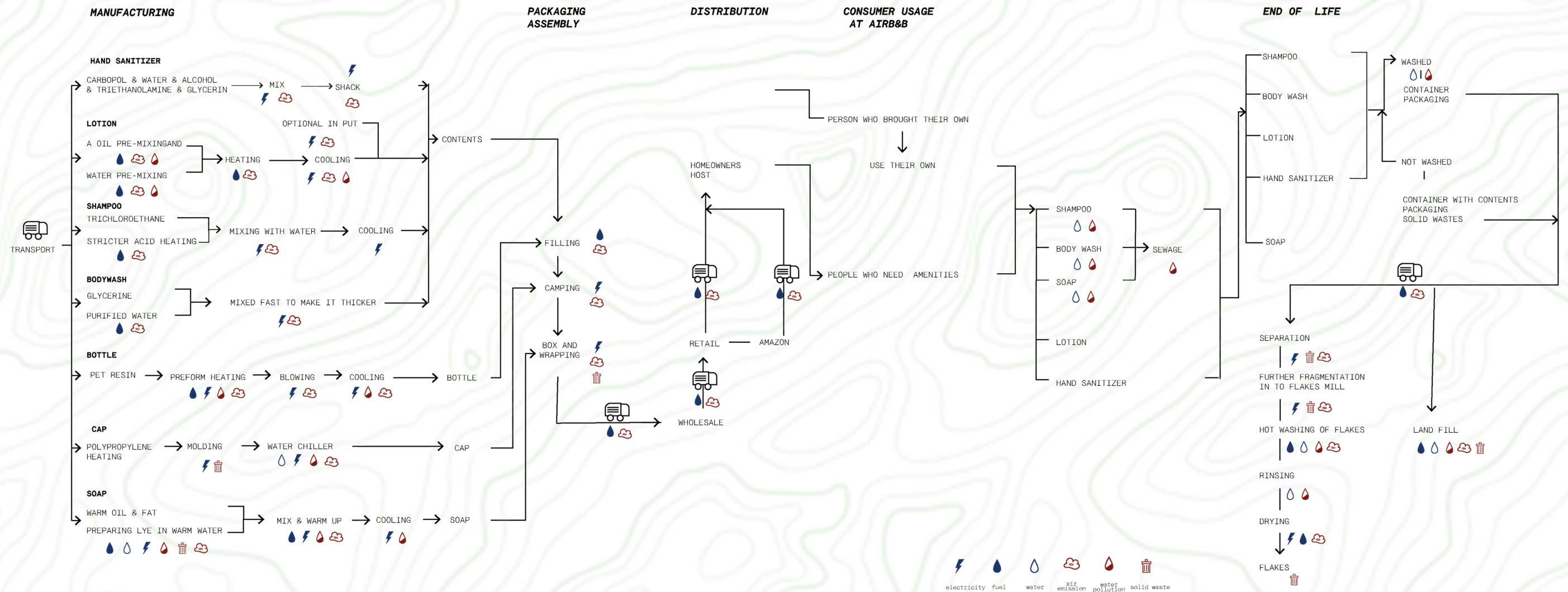


no.	component	material	quantity	/unit	impact	co2
1	24m reciever	pet	1	.04 lbs	.0002	.02
2	body	pet	1			

okala score: 24mm cap



no.	component	material	quantity	/unit	impact	co2
1	removable lid	pp	1	.04 lbs	.0002	.02
2	body	pp	1			
3	funnel	pp	1			



IMPACT MATRIX

 **NEGATIVE**  **SOME IMPACT**  **ZERO IMPACT**

	RESOURCE DEPLETION	GLOBAL WARMING	OZONE LAYER DEPLETION	ACID RAIN ACIDIFICATION	SOLID WASTE	LAND DEGRADATION	WATER POLLUTION	AIR POLLUTION	REDUCED BIODIVERSITY
RAW MATERIAL EXTRACTION									
MATERIAL PROCESSING									
COMPONENT MANUFACTURING									
USE									
ASSEMBLY & PACKAGING									
DISTRIBUTION									
CYCLING // RECYCLING									
CYCLING // DISPOSAL									