

LIQUID DETERGENT MADE EASY

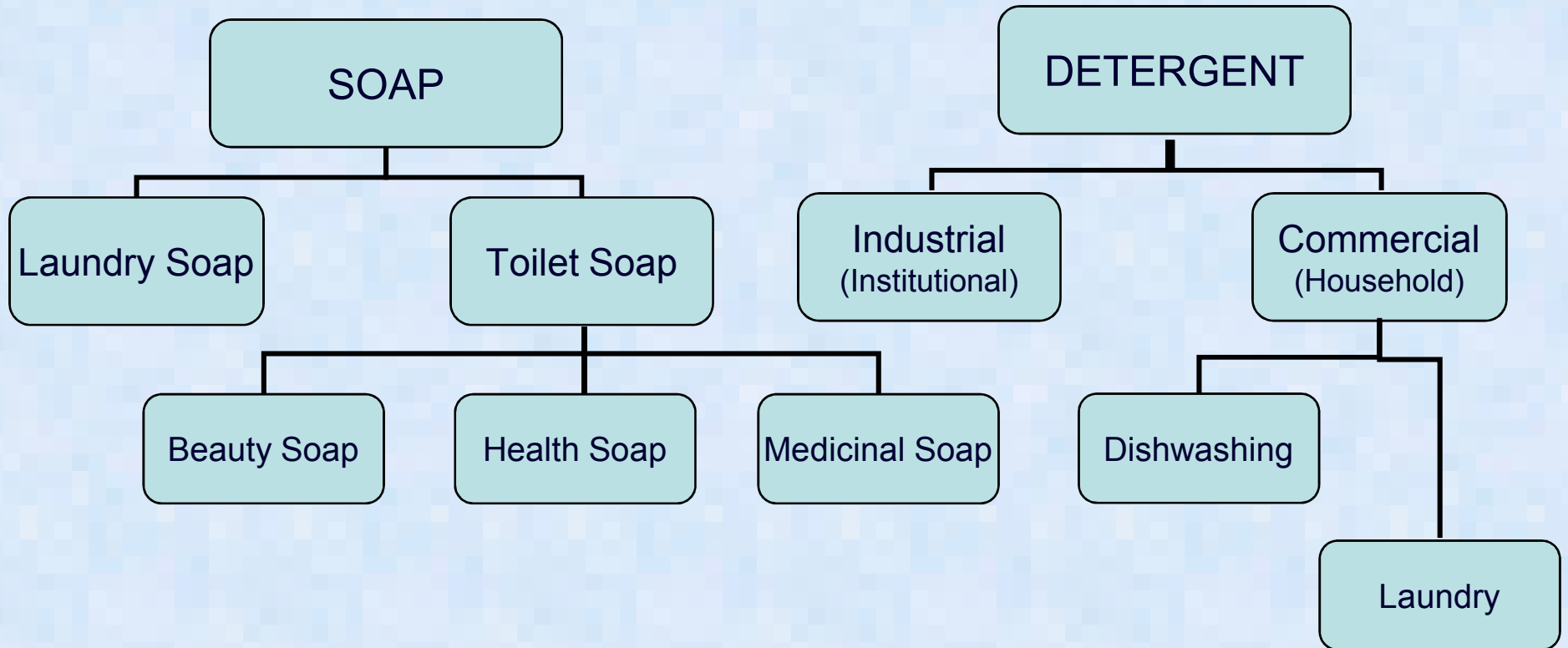
by

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SURFACTANT



LIQUID DISHWASHING DETERGENT

Raw Materials	Weight(g)	P/KgRM	P/KFP
Deionized Water	862	0.25	0.22
Caustic Soda	12	42	0.50
LABSA	94	160	15.04
CDEA	27	130	3.51
Colorant	qs		
Essence	1	176/120ml	0.18
Sodium Chloride	2	11	0.02
Soda Ash	2	10	0.02
TOTAL	1000		19.49

Procedure:

1. Weigh all ingredients in separate containers with labels.
2. Dissolve the caustic soda flakes in 100ml water.
3. Slowly add the LABSA with slow agitation for 10-15 minutes.
4. Add the 600ml of water to the mixture and mix thoroughly.
5. Dissolve CDEA in 100ml of water in a separate container and incorporate it to the neutralized LABSA.
6. Dissolve sodium chloride in 40ml of water and soda ash in 22ml of water in separate containers.
7. Add the soda ash solution to the mixture followed by sodium chloride solution and mix well.
8. Add colorant and essence. Mix well until homogenous.
9. Check pH and adjust with 10% caustic soda solution to pH 8-10.
10. Set aside to allow bubbles to subside, then pack into PET bottles.