

# 14 Steps TO MAKE LIQUID SOAP

## INGREDIENTS

Eco-friendly foaming agent..... 1 kg  
 Salt..... 1 kg  
 Sulphonic acid..... ½ kg  
 Sodium carboxymethyl cellulose (CMC)..... ¼ kg  
 Urea..... ½ kg  
 Caustic soda..... ½ kg  
 Water..... 20 litres

### Optional

Color (use vegetable dye)..... 1 packet  
 Frangence (use essential oils)..... 1 bottle

## MATERIALS

### Makes up to 20 liters of liquid soap

Plastic basin or large bucket ..... 1 bucket  
 Large bowl/plastic basin..... 1  
 Wooden mingling stick..... 1  
 Gloves..... 1 pair  
 Face mask ..... 1 pair  
 Tablespoon (for measurements) ..... 1  
 Jerry can ..... 20 litres



1 Start by putting gloves and a mask on.<sup>1</sup>



2 In a plastic basin, add 5 litres of water and 1 kg of salt.<sup>2</sup>



3 Stir thoroughly using a wooden mingling stick until the salt completely disappears.



4 While stirring vigorously, add three spoons of sodium carboxymethyl cellulose (CMC).



5 When the CMC has dissolved, add in the 2 teaspoon spoons of caustic soda and stir thoroughly.



6 After stirring in the caustic soda, add three spoons of urea and stir.



7 When urea dissolves add 1kg of eco-friendly foaming agent.



8 Stir vigorously, until bubbles appear and foam is formed.



9 Once foam is formed, add in ½ kg of sulphonic acid and stir to dissolve.



10 While stirring, add remaining 15 liters of water.



11 Optional: add in color (vegetable-based) of choice and mix gently.



12 Optional: add 1 bottle cap full of essential oils such as mint for fragrance.



13 Allow the mixture to settle for 6 to 7 hours, until all the foam disappears.



14 Pack the soap in the jerry can or container. Your soap is now ready for sale or use.<sup>3</sup>

## TIPS

- 1 For safety, always wear gloves and a mask to prevent the chemicals from getting into contact with the eyes or skin.
- 2 Ensure to mix the soap in a safe place and away from children.
- 3 Store the soap in an airtight container to prevent the fragrance from evaporating.