

1. Use of the product

Used as a mouthwash to cleanse and freshen the mouth, suitable for treatment of superficial infections if used frequently (*British National Formulary* 51st edn, p 564).

2. Is it safe and suitable for the intended purpose?

This is an official preparation, therefore the formula is safe and suitable for purpose. The dose of 20 ml every 4 hours when required is consistent with the recommended dosage (*British National Formulary* 51st edn, p 564).

3. Calculation of formula for preparation

Prepare 150 ml of Sodium Chloride Compound Mouthwash BP.

Product formula

(from the *British Pharmacopoeia* 2004, p 2731)

	Master	100 ml	50 ml	150 ml
Sodium Bicarbonate BP	10 g	1 g	500 mg	1.5 g
Sodium Chloride BP	15 g	1.5 g	750 mg	2.25 g
Concentrated Peppermint Emulsion BP	25 ml	2.5 ml	1.25 ml	3.75 ml
Double Strength Chloroform Water BP	500 ml	50 ml	25 ml	75 ml
Potable water	to 1000 ml	to 100 ml	to 50 ml	to 150 ml

Interim formula for Double Strength Chloroform Water BP

Concentrated Chloroform Water BPC 1959	5 ml
Potable water	to 100 ml

4. Method of preparation**a. Solubility where applicable**

Sodium Bicarbonate BP is soluble 1 in 11 parts of water (*British Pharmacopoeia* 1988, p 509). Therefore to dissolve 1.5 g of Sodium Bicarbonate BP a minimum of $1.5 \times 11 = 16.5$ ml water would be required. Sodium Chloride BP is soluble 1 in 3 parts of water (*British Pharmacopoeia* 1988, p 512). Therefore to dissolve 2.25 g of Sodium Chloride BP a minimum of $2.25 \times 3 = 6.75$ ml water would be required.

b. Vehicle/diluent

Double Strength Chloroform Water BP and potable water would be used as the vehicle as per the product formula.

c. Preservative

Double Strength Chloroform Water BP is included in this product as the preservative as per the product formula.

d. Flavouring when appropriate

Concentrated Peppermint Emulsion BP is added to this product as a flavouring as per the product formula. In addition