

WHO-recommended Handrub Formulations

Reference: <https://www.who.int/gpsc/5may/Guide to Local Production.pdf>

METHOD: 10-LITRE PREPARATIONS

These can be prepared in 10-litre glass or plastic bottles with screw-threaded stoppers.

Recommended amounts of products:

FORMULATION 1	FORMULATION 2
<ul style="list-style-type: none">Ethanol 96%: 8333 mlHydrogen peroxide 3%: 417 mlGlycerol 98%: 145 ml	<ul style="list-style-type: none">Isopropyl alcohol 99.8%: 7515 mlHydrogen peroxide 3%: 417 mlGlycerol 98%: 145 ml

Final products

FORMULATION 1	FORMULATION 2
Final concentrations: <ul style="list-style-type: none">Ethanol 80% (v/v),Glycerol 1.45% (v/v),Hydrogen peroxide 0.125% (v/v)	Final concentrations: <ul style="list-style-type: none">Isopropyl alcohol 75% (v/v),Glycerol 1.45% (v/v),Hydrogen peroxide 0.125% (v/v)

General information

Labelling should be in accordance with national guidelines and should include the following:

- Name of institution
- WHO-recommended handrub formulation
- For external use only
- Avoid contact with eyes
- Keep out of the reach of children
- Date of production and batch number
- Use: Apply a palmful of alcohol-based handrub and cover all surfaces of the hands. Rub hands until dry
- Composition: ethanol or isopropanol, glycerol and hydrogen peroxide
- Flammable: keep away from flame and heat