

Disinfectants recommended for foot and mouth disease control

Disinfectant	Application method	Rate	Warnings	Estimated cost per L ¹
Citric acid – anhydrous powder	Non-porous surfaces – apply solution for 15 minutes.	30g product/L	Corrosive product. Wear protective clothing and avoid contact with eyes and skin.	690 – 855 IDR
	Porous surfaces – apply solution for 30 minutes.			
Sodium Hydroxide	Clothes/footwear and small equipment: soak for at least 10 minutes.	Always dilute product with water = 50mL product/L	Wear protective (water resistant) clothing, gloves and safety glasses.	800 – 1,000 IDR
	Surfaces: apply 1-1.5L/m ² and soak for at least 10 minutes – do NOT use high pressure hoses.			
Sodium carbonate – washing soda crystals	Apply solution for 30 minutes.	100g product/L	Mildly caustic for eyes and skin.	900 IDR
Sodium carbonate – anhydrous powder	Apply solution for 20 minutes.	40g product/L		47,160 IDR
Sodium hypochlorite (bleach)	Clothes/footwear and small equipment: soak for 15-30 minutes	250ml product/L	Product is corrosive to metals and toxic for eyes and skin. Wear protective clothing, masks and gloves.	1,567 – 2875 IDR
	Surfaces: apply 1-1.5L/m ² and soak for 15 minutes on non-porous surfaces and 30 minutes on porous surfaces. Do NOT use high pressure sprays.			
Potassium peroxy-monosulphate, sodium dodecyl benzene sulfonate and sodium chloride – e.g. Virkon powder	Clothes/small items and equipment: soak for at least 10 minutes.	20g product/L (2%)	Mildly corrosive for many metals.	6,600 – 15,360 IDR
	Surfaces: apply 1-1,5L/m ² . Do NOT use a high pressure spray.			

¹ The potential cost of **long-term** infrastructure repairs due to the corrosive nature of disinfectants should also be taken into consideration when selecting the most **cost-effective** disinfectant.