Knapsack sprayer calibration procedure

Steps	Example: Roundup®
1. select NOZZLE	
Refer to separate nozzle technical note.	D/1.0/1
2. set PRESSURE	
Adjust pressure relief valve to appropriate position if fitted.	LOW
3. measure TIME per 100 metres	
Determine time taken to spray 100 m on ground similar to that to be sprayed.	93 seconds
4. calculate SPEED	
SPEED (km/h) = 360 ÷ TIME (seconds)	360÷93 =3.9 km/hr
(Walking speed =100 ÷ TIME (seconds)	(100÷93 =1.1m/sec)
5. measure WIDTH	
Spray over dry surface at consistent height. Measure distance across spray band.	1.1m
6. measure FLOW RATE	
Spray into bucket for 1 minute. Decant into measuring jug.	0.58 L/min
7. calculate SPRAY VOLUME	
Volume in l/ha = Nozzle output (l/min) x 600 ÷ Swath width (m) x speed km/hr — 0.58 x 600 ÷ 1.1 x 3.9	81 litres/ha
8. check correct DOSE RATE	
Read product dose rate from label.	5.0 litres/ha
9. check TANK CAPACITY	
Find out the capacity of the tank, or quantity of spray mixture required, if less.	20 litres
10. calculate amount of PRODUCT / TANK	
Amount of product per tank = Dose rate (l/ha) x Tank capacity (l) ÷ Spray Volume (l/ha) — 5 x 20 ÷ 81	**1.23 litres***

***Plus 18.77 litres of water to make 20 litres of spray solution. NB: ALWAYS USE CLEAN WATER TO CALIBRATE YOUR SPRAYER.**

Roundup

Roundup® is a registered trademark of the Bayer Group. Roundup® contains glyphosate.

Use plant protection products safely. Always read the label and product information before use. Pay attention to the risk indications and follow the safety precautions on the label.

For further details consult the website

Web: https://cropscience.bayer.co.uk/our-products/amenity