





## Accepted Hand held Sprayer (Knapsacks & Pressure sprayers) Routine Check List

1. DETAILS	
Company/Owner name :	
Address:	
Operator Name & NPTC No.	
Sprayer make & model include any ID marks	
(consider adding a unique ID mark if you run	
multiple sprayers):	
Inspection by (add NPTC No if different from	
above):	
Inspection date:	

## PLEASE WEAR SUITABLE PPE BEFORE COMMENCING THE INSPECTION

2. GENERAL CONDITION		YES	NO	ACTION
Clean, empty & depressurized? ! Follow manufacturer's instructions!				
Check lid – seal & non return va	lve present & in good condition?			
Tank strainer clean & in good condition?				
Check tank for damage – any cracks or holes?				
Inspect straps & fixing points for damage, cleanliness & security?				
Inspect all hoses for damage – are they still flexible?				
Check trigger & lance – are there signs of damage & leakage?				
Check any filters fitted (in trigger & behind nozzle) –are they clean and in good condition?				
Check nozzle – is it fitted/aligne	d correctly and has no signs of damage?			
Check pump (piston or diaphragm) – are there signs of damage or leakage?				
Electric sprayers - check condit	ion of battery, charger and circuits			

DO NOT PROCEED TO 3 IF THERE IS A CHEMICAL RESIDUE OR SIGNS OF DAMAGE/LEAKAGE.

DECONTAMINATE BY INTRODUCING WATER/DETERGENT MIX OR PROPRIETRY CLEANING
CHEMICAL EQUIV. TO 10% OF THE TANK VOLUME, AGITATE, PRESSURISE & SPRAY UNTIL AIR
COMES FROM NOZZLE. REPEAT X 2. REPAIR AND/OR REPLACE PARTS AS REQUIRED.

3. FUNCTION CHECKS		YES	NO	ACTION
Using a vessel of a known liquid volume, introduce clean water into the sprayer in stages until full – are the graduations on the tank visible & accurate?				
Check that the straps will take t	he weight of the full sprayer! TAKE CARE!			
Is the sprayer stable on the floor or bench when full?				
Check for leaks with the spraye	r upright and on its side.			
Pressurise the sprayer – Does the pump work smoothly?				
Check for leaks again paying att	ention to the hoses, trigger & lance.			
Spray into an appropriate contacorrectly & also any anti-drip/fl	iner – does the on/off mechanism function ow management valves?			
	nozzle for uniformity (Further spray nozzle part of the recommended calibration Calibration Sheet below.			
Spray out all liquid until air com cupful (250ml) remaining in the	es from the nozzle. Is there less than a tank?			

4. PREPARE TO STORE		YES	NO	ACTION
Ensure the sprayer is empty & depressurized? ! Follow manufacturer's instructions!				
Ensure that the external parts cand dry.	f the sprayer including straps are clean			
Clean spray nozzles & filters in a water/detergent mix using a soft brush (Do not use sharp objects to unblock nozzles)				
Lubricate any moving parts, such as plunger cups or O rings with an appropriate lubricant/grease – Follow manufacturer's instructions				
Store securely in a frost free pla	ce away from direct sunlight.			

ALWAYS FOLLOW CORRECT DISPOSAL PROCEDURES FOR ALL RINSINGS & ENSURE THAT NO CONTAMINATED LIQUIDS ENTER DRAINS OR WATERCOURSES.









## **Hand Held Sprayer Calibration Sheet**

ACTION	DETAIL	EXAMPLE	WORK SPACE
1. Read the product label	Application rate, chemical dose rate & spray quality needed from spray nozzle	75 to 100 l/hectare 5 l/hectare Medium	
2. Select nozzle & type of equipment	As above. Consider using a pressure sprayer for small areas or spot treatment.	372022 Blue Polijet	
3. Set pressure (if applicable)	If there is a pressure regulator, limiter or pressure control valve, select the pressure required to deliver the application rate and spray quality required – refer to nozzle manufacturers chart	Low 1bar setting on CP Classic sprayer	
4. Measure spray width	Hold trigger & lance at comfortable height above target, spray onto dry concrete and measure the band applied in meters.	1.5 m	
5. Walk & spray 100m strip and record time	Replicate the real condition as much as possible by wearing PPE and carrying a full sprayer. Repeat and take the average of the two measurements.	68 secs.	
6. Spray into a measuring cylinder for the 100m time	Using a steady pumping action, spray into the vessel for the time it took to walk & spray 100m. Repeat and record the average of the two measurements.	1.3 liters	
7. Calculate walking speed KPH	360 divided by time in secs for 100m = KPH (360 is a constant used in all such metric calculations)	360/68 = 5.3 kph	
8. Calculate the spray volume l/hectare	Volume collected in cylinder in litres x 100 ÷ spray width = L/hectare (100 is a constant used in all such metric calculations)	1.3 x 100 ÷ 1.5 = 86.66 l/hectare	
9. Make adjustments to reach desired application rate l/hectare	If necessary alter the spray pressure, walking speed or spray width to obtain the correct application rate. If this is not practical change nozzle. Many spray product labels give an acceptable range of application i.e. 75 to 100 l/hectare	86.66 I/hectare OK if range of 75-100 I/hectare recommended	
10. Calculate the area to spray	Measure the length and width in meters (L $\times$ W = Area to be sprayed)	Length 10m x Width 6m = 60m <sub>2</sub>	
11. Calculate total water required for area to be sprayed	Volume collected in cylinder in liters x area to be sprayed $\div$ 100 $\div$ spray width (m) = Water required for the area to be sprayed in liters (100 is a constant used in all such metric calculations)	1.3 x 60 ÷ 100 ÷ 1.5 = 0.52 liters	
12. Calculate chemical required for area to be sprayed	Water required for area to be sprayed in liters x chemical rate in I/hectare from label ÷ calculated spray volume from 8 above x 1000 = chemical required for the area to be sprayed in milliliters (ml) (1000 is a constant used in all such metric calculations)	0.52 x 5 ÷ 86.66 x 1000 = 30 ml	
13. Calculate chemical required for full or part tank	Capacity of spray tank (or part fill) x chemical rate in I/hectare from label ÷ calculated spray volume from 8 above x 1000 = chemical required in ml (1000 is a constant used in all such metric calculations)	15 x 5 ÷ 86.66 x 1000 = 865 ml	
14. Record data	Keep a spray record detailing all of the above	As above.	

Cooper Pegler Sprayers are produced in Europe by

