



# When planting sprayed seedlings and post-planting spraying



This brochure is intended for those who work with forest planting.

The planting of sprayed seedlings carries a health risk. This also applies to spraying seedlings after they have been planted. You will be able to work safely if you are aware of the risks and about how to protect yourself.



### **Approved pesticides**

The Swedish Chemicals Inspectorate has approved the use of three pesticides against insect attacks on forest seedlings in Sweden (2013).

- Forester
- Hylobi Forest
- Merit Forest WG

The labels and safety data sheets of the pesticide products contain information about the risks and the protective measures that should be followed both when handling the pesticides and treated seedlings.

Avoid skin contact with the pesticides and seedlings. Do not get the pesticides in your eyes or mouth – the simplest way to avoid this is to wash your hands regularly while handling pesticides and seedlings.

### **Training**

All three approved pesticides require training in the use of class 2L pesticides. There is a special one-day training programme for fighting pine weevil on coniferous seedlings. These rules for training also apply to workers from other countries.

Information about required training can be found at the Swedish Board of Agriculture's website, [www.jordbruksverket.se](http://www.jordbruksverket.se).

### **Minors**

Minors may not handle forest seedlings that have been treated with pesticides.

### **Employer's responsibility**

- Perform a risk assessment of the work, taking into the account the risks both from the pesticide and the handling methods.
- Decide which measures to take to reduce the risks.
- The results of the risk assessment should be reproduced in a document which should be dated and signed by the responsible party.
- Inform the employees about the risks, about how to protect yourself and what to do in the event of an incident.
- Arrange routines for first aid treatment and for raising the alarm.
- Provide handling and safety instructions.
- Make sure that everyone understands the information.
- Buy the correct protective equipment and ensure that everyone uses it.
- Determine how often protective gloves should be changed.
- Provide facilities for changing clothes and for personal hygiene.

### **Employee's responsibility**

- Use the clothing and protective equipment designated by the employer.

They protect your skin from sharp pine needles.

- Change and wash your work clothing and underwear often.
- Wash your hands before meals, toilet visits, smoking and other times when there is a risk of getting pesticide on or inside you.
- Have a shower immediately after work.
- Ensure that food, drink and changes of clothes are kept safely away from pesticides.

### **Personal protective equipment**

- Clothes and protective clothing that withstands sharp pine needles and keep you dry. Long trousers and shirt or jacket with rolled-down sleeves are recommended. Textile fabrics offer better protection than knitted fabrics.
- Use rubber boots. Do not use leather or textile shoes.
- Protective gloves with long cuffs or gloves worn in combination with sleeve protectors. Protective gloves of nitrile rubber or meshed gloves coated with nitrile rubber offer good protection. Protective gloves should be changed often.



# CHECKLIST

## Minimise the risks when planting treated seedlings

1 Are there handling and safety routines available? Yes No

Are the following handling and safety instructions available?

- type of work clothing
- type of protective gloves
- change of clothes
- hand washing
- first aid
- raising the alarm (location description, coordinates, map, telephone)

2 Does the work/protective clothing used offer protection against direct contact? Yes No

Which garments are used?

- Long trousers
- Long-sleeved shirt or jacket
- Sleeve protectors

And in wet weather conditions:

- Rubber boots
- Waterproof clothing

3 Are protective gloves used? Yes No

- Are they made of nitrile rubber or are they nitrile-coated mesh gloves?

4 Are the following washing facilities provided? Yes No

- facility for washing both hands simultaneously
- liquid soap
- paper towels

5 Facility for changing clothes? Yes No

- separate storages for private clothes and work/protective clothing

6 Are there instructions in the appropriate languages for Yes No

- pesticides being used
- mixing and loading of pesticides
- knapsack sprayer
- cleaning of knapsack sprayer
- transportation of knapsack sprayer and pesticides
- protective clothing



# CHECKLIST

## Minimise the risks when post-planting spraying

<p>1 Is the person who is spraying the seedlings trained in 2L pesticides?</p> <p style="text-align: right;">Yes No</p> <hr/> <p style="text-align: center;"><input type="checkbox"/> <input type="checkbox"/></p>	<p style="text-align: right;">Yes No</p> <hr/> <p>– hand washing <input type="checkbox"/> <input type="checkbox"/></p> <p>– first aid <input type="checkbox"/> <input type="checkbox"/></p> <p>– raising the alarm (location description coordinates, map, telephone) <input type="checkbox"/> <input type="checkbox"/></p>
<p>2 Which pesticides are used?</p> <hr/> <p>– Forester <input type="checkbox"/></p> <p>– Merit Forest WG <input type="checkbox"/></p> <p>– Hylobi Forest <input type="checkbox"/></p>	<p>7 Is the following protective equipment available:</p> <hr/> <p style="text-align: right;">Yes No</p> <p>– protective clothing <input type="checkbox"/> <input type="checkbox"/></p> <p>– protective gloves made of nitrile or nitrile-coated mesh gloves <input type="checkbox"/> <input type="checkbox"/></p> <p>– boots <input type="checkbox"/> <input type="checkbox"/></p> <p>– facial shield and respirator (when mixing pesticides and cleaning) <input type="checkbox"/> <input type="checkbox"/></p>
<p>3 Are safety data sheets available for the pesticides being used?</p> <p style="text-align: right;">Yes No</p> <hr/> <p style="text-align: center;"><input type="checkbox"/> <input type="checkbox"/></p>	<p>8 Are the following washing facilities provided?:</p> <hr/> <p style="text-align: right;">Yes No</p> <p>– facility for washing both hands simultaneously <input type="checkbox"/> <input type="checkbox"/></p> <p>– soap <input type="checkbox"/> <input type="checkbox"/></p> <p>– paper towels <input type="checkbox"/> <input type="checkbox"/></p>
<p>4 Is the knapsack sprayer in full working condition?</p> <p style="text-align: right;">Yes No</p> <hr/> <p style="text-align: center;"><input type="checkbox"/> <input type="checkbox"/></p>	<p>9 Is there a facility for changing clothes?</p> <hr/> <p style="text-align: right;">Yes No</p> <p>– separate storage for day clothes, work clothing and protective clothing. (To avoid pesticides being spread in your car or home, etc.) <input type="checkbox"/> <input type="checkbox"/></p>
<p>5 Is eye washing equipment available?</p> <p style="text-align: right;">Yes No</p> <hr/> <p>(Necessary when mixing pesticides) <input type="checkbox"/> <input type="checkbox"/></p>	<p>10 Is the safety data sheet, information and handling and protective instructions provided in the appropriate languages?</p> <hr/> <p style="text-align: right;">Yes No</p> <p style="text-align: center;"><input type="checkbox"/> <input type="checkbox"/></p>
<p>6 Have written handling and protective instructions been provided for:</p> <hr/> <p>– mixing and loading pesticides <input type="checkbox"/> <input type="checkbox"/></p> <p>– knapsack sprayer <input type="checkbox"/> <input type="checkbox"/></p> <p>– knapsack sprayer <input type="checkbox"/> <input type="checkbox"/></p> <p>– cleaning of knapsack sprayer <input type="checkbox"/> <input type="checkbox"/></p> <p>– transportation of knapsack sprayer and pesticides <input type="checkbox"/> <input type="checkbox"/></p> <p>– protective clothing <input type="checkbox"/> <input type="checkbox"/></p> <p>– change of clothes <input type="checkbox"/> <input type="checkbox"/></p>	





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VERKET**

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Vår vision: Alla vill och kan skapa en bra arbetsmiljö