

Ecoplug[®] information



Ecoplug Sweden AB

- ❑ Hans Merving founded the company , Ecoplug Sweden AB, 1985
- ❑ The target for development of Ecoplug® was to minimize the use of chemicals in forestry. Hans Merving realized the power of individual treatment of target trees and developed the Ecoplug method based on that idea.
- ❑ In 1989 the current model of Ecoplug® was firstly tested

EcoPLUG®



What is Ecoplug®?

- ❑ Ecoplug® minimize the use of chemicals for control of unwanted trees.
- ❑ Ecoplug can be used both on stumps and on standing trees
- ❑ Ecoplug® kills the whole roots system of the target trees. It has no effect on surrounding trees or plants
- ❑ The efficacy is very high normally between 95 and 100% on treated stumps. Swedish data from electrical power lines shows that Ecoplug reduce the number of new shoots with over 80% between normal clearings.
- ❑ Ecoplug® is 100 % selective and reduce the use of chemicals with over 90 % vs. standard methods
- ❑ Each Ecoplug contains 204 mg glyphosate per capsule

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How to do it:

- ❑ Drill a hole in the stump/tree, the hole should be 25-30 mm deep and 13 mm wide
There are special drills that ctrl the depth available for professional use, the hole can be drilled from the side or from the top.
- ❑ Place an Ecoplug® in the hole
- ❑ Hit the Ecoplug® with a hammer



Ecoplug efficacy

- Correctly applied Ecoplug gives over 95% efficacy on treated stumps or trees.

What can go wrong ?

- To low doserate = to few Ecolug used
- Wrong application
 - Ecoplug placed to much in the middle of the tree
 - The Ecoplugs are not spread even around the tree
 - The holes are do deep = the Ecoplug do not expand

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Where to place Ecoplug



In fresh wood
Evenly spread
Close the bark and close the sap streams

Doserate



Depending on species, as an role of thumb, take the diam. in cm and divide by 4

Example: The trees diam. is $32 \text{ cm} / 4 = 8$ Ecoplugs

Why Ecoplug®?

- ❑ Ecological advantages
- ❑ Economical advantages

Ecological advantages

- ☐ No risk for spill of chemicals
- ☐ No risk for chemical coming into water
- ☐ No risk for damages on surrounding trees/ nature
- ☐ No risk for the works to get in contact with chemical
- ☐ Ecoplug contains a very well documented herbicide that degrades into natural compounds
- ☐ Not sensitive for rain, humidity etc.
- ☐ No risk for over dosing
- ☐ Common sense and public opinion are requesting less use of chemicals

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Economical advantages

- ☐ Very short pay-off time profitable already when second clearance are done, after that the profit increases every clearance
- ☐ Ecoplug® delay the interval between clearings with 50-100 %
- ☐ Very high efficacy, minimize the need for "emergency treatments
- ☐ When used in power line it reduce the risk for power cuts
- ☐ Can be used year around
- ☐ Not sensitive for rain, humidity etc.
- ☐ Ecoplug is preferred method by workers, no protection clothes needed, no contact with the chemical

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Conclusion

- ❑ The use of Ecoplug® leads to significant reduction in clearance cost
- ❑ The cost is paid back already before the second clearance
- ❑ Ecoplug® is a selective and almost 100% effective method to kill unwanted trees
- ❑ Ecoplug reduce the use of chemicals with more than 90%
- ❑ Ecoplug reduce the risk of using chemical significantly

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