Exposure of Workers during Pest Control of the Oak Processionary Moth (OPM) by Spray Applications

Michael Roitzsch, Anja Schäferhenrich, Anja Baumgärtel, Katrin Ludwig-Fischer, Frank Burgmann, Thomas Göen and Ralph Hebisch
1Federal Institute for Occupational Safety and Health (BAuA), Dortmund, Germany
2Friedrich-Alexander-Universität Erlangen-Nürnberg, Erlangen, Germany

Introduction

Oak Processionary Moth (OPM)
- native to central and southern Europe
- range of distribution is expanding
- caterpillars form stinging hairs starting with 3rd larval stage
- Hazard to human health: skin and eye irritation, breathing difficulties, allergic reactions

Control of OPM
- Mostly by spraying insecticides (spray application)
  - with vehicle mounted spraying devices (VMS)
  - with handheld spraying devices (HHS)
  - with helicopters
- control of OPM to protect human health: products regulated by EU biocides-legislation

Results

Measurement of dermal and inhalation exposure

Comparison with data used for assessment of plant protection products (PPP)

• hand-held spraying
  - M&L: knapsack sprayer
  - App: HCHH

• vehicle-mounted spraying
  - M&L: ML tank WG
  - App: HCTM cabin

Vehicle Mounted Spraying Device (VMS)
Handheld Spraying Device (HHS)

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Handeld Spraying Device (HHS)

Vehicle Mounted Spraying Device (VMS)

Links to the full report

English: https://www.baua.de/EN/Service/Publications/Report/F2343-2.html
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