



# **A policy-making perspective on environmental monitoring: The case of biocides**

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Emerging pollutants in the EU – 10 years of NORMAN  
in support of environmental policies and regulations



biocidal product



substance or mixture  
with the intention of  
destroying/deterring  
harmful organisms



# Biocides – examples



wood preservatives



rodenticides



antifoulings



disinfectants



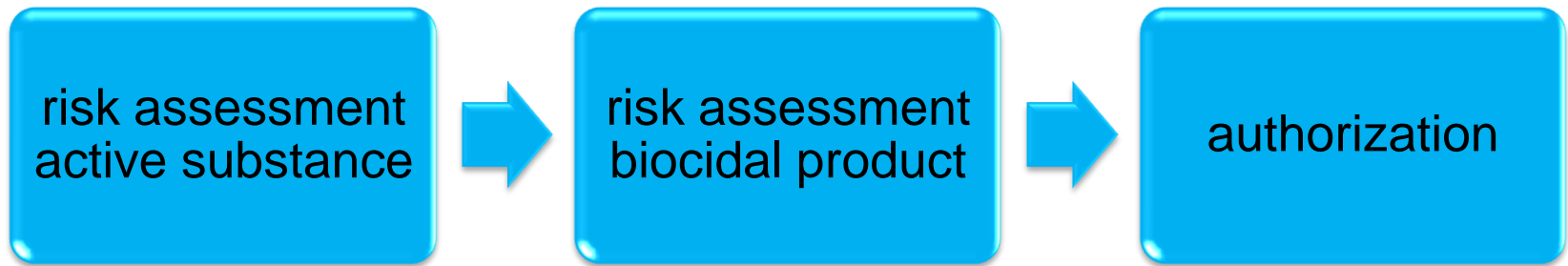
construction material  
preservatives



insecticides



# EU-law on biocides



No making available on the market without authorization.



# EU-law on sustainable use of pesticides (examples)

## plant protection products

- ✓ Training
- ✓ Sales
- ✓ Requirements for application  
equipment



## biocides



→ Reduce overall risks + impacts

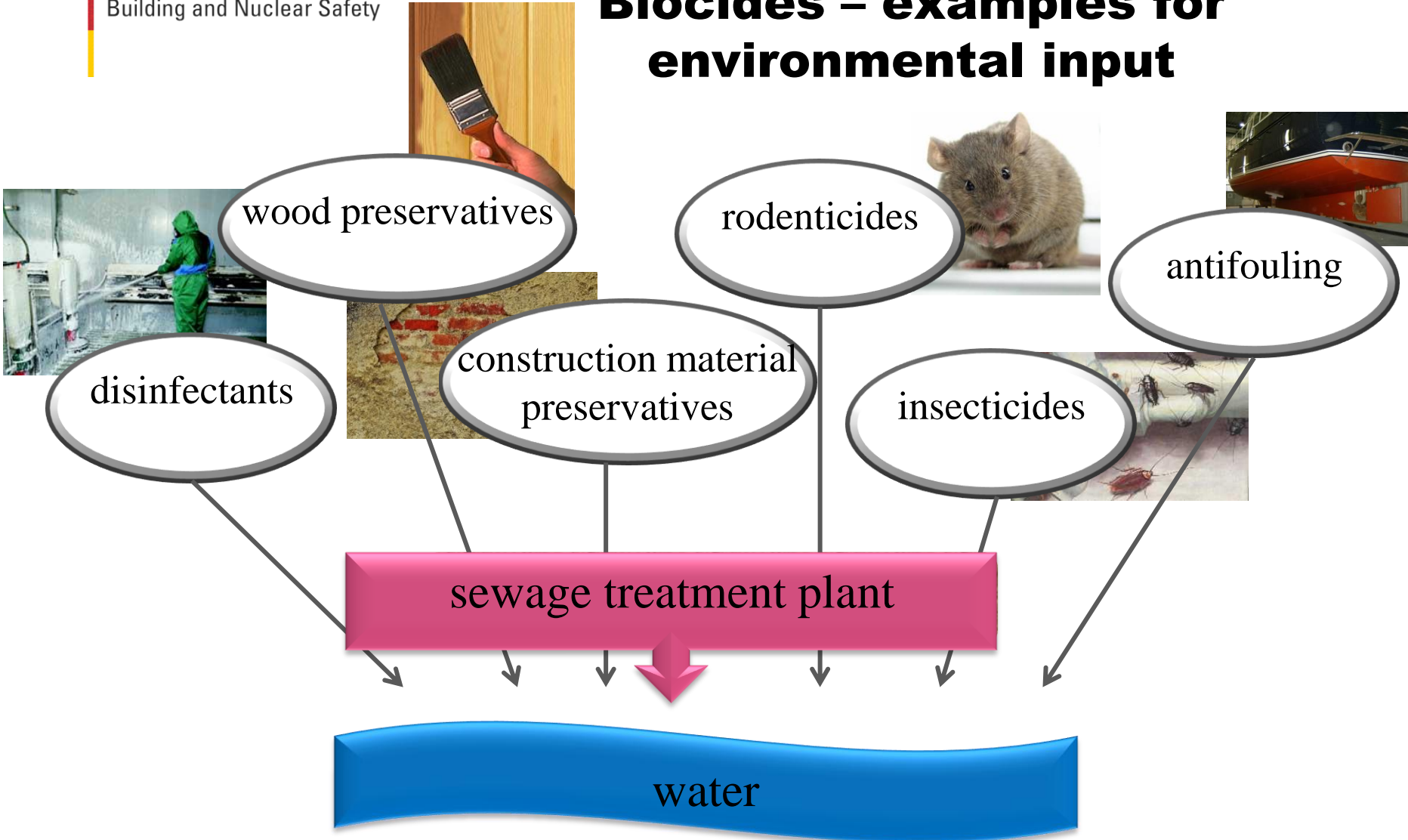


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# Biocides – examples for environmental input





# Biocides in the environment – indications

International workshop in cooperation with NORMAN (Berlin 2015):  
„Biocides can be found in relevant concentrations in the  
environment (surface water, influent and effluent of sewage  
treatment plants, rainwater, biota, etc.).“

Example: Screening on antifoulings in german marinas



For cybutryn: water concentrations above Environmental  
Quality Standards in 35 out of 50 marinas.







# First steps towards a basis of knowledge in Germany

Multiannual research project



Guidance for monitoring the environmental load of certain biocides (Federal Environment Agency):

- Procedure to prioritize active substances
- Recommended work packages according to emission pathways
- Priority-list of candidate substances for each work package



Partly put into practice in a pilot project in 2017:

- 20 sewage treatment plants
- 20 active substances each (e.g. terbutryn, difethialon)
- sample taking for 1 year



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**Thank you!**

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Division IG II 5

„Plant Protection Products, Biocides, Pharmaceuticals”