Mitigation of environmental impact caused by Durable Water and Oil Repellents (DWOR) textile finishing chemicals studying their nontoxic alternatives.

The main objective of MIDWOR-LIFE is to mitigate the environmental, health and safety impacts of current Durable Water and Oil Repellents (DWOR) and their alternatives, used in the textile industry, by analyzing their environmental impact and technical performance in order to assess manufacturers on the best available technologies to provide liquid repellency on textiles.

Policy recommendations will be set in order to promote the widespread implementation of the less toxic and most effective DWOR alternatives (not containing PFOS or PFOA) to fulfil REACH Regulation.

COORDINATING BENEFICIARY

AEI Textils.cat
AGRUPACIÓ D'EMPRESES INNOVADORES

ASSOCIATED BENEFICIARIES

CETIM Centro Tecnológico de Investigación Multisectorial

po.in.tex Polo Innovazione Tessile

clutex cluster technical textiles

CSIC Consejo Superior de Investigaciones Científicas

iQAC

LEITAT Technological Center member of TECNIO
managing your technologies

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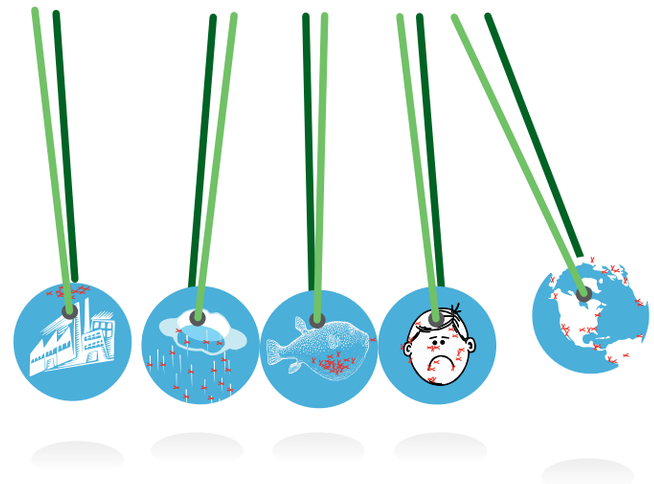
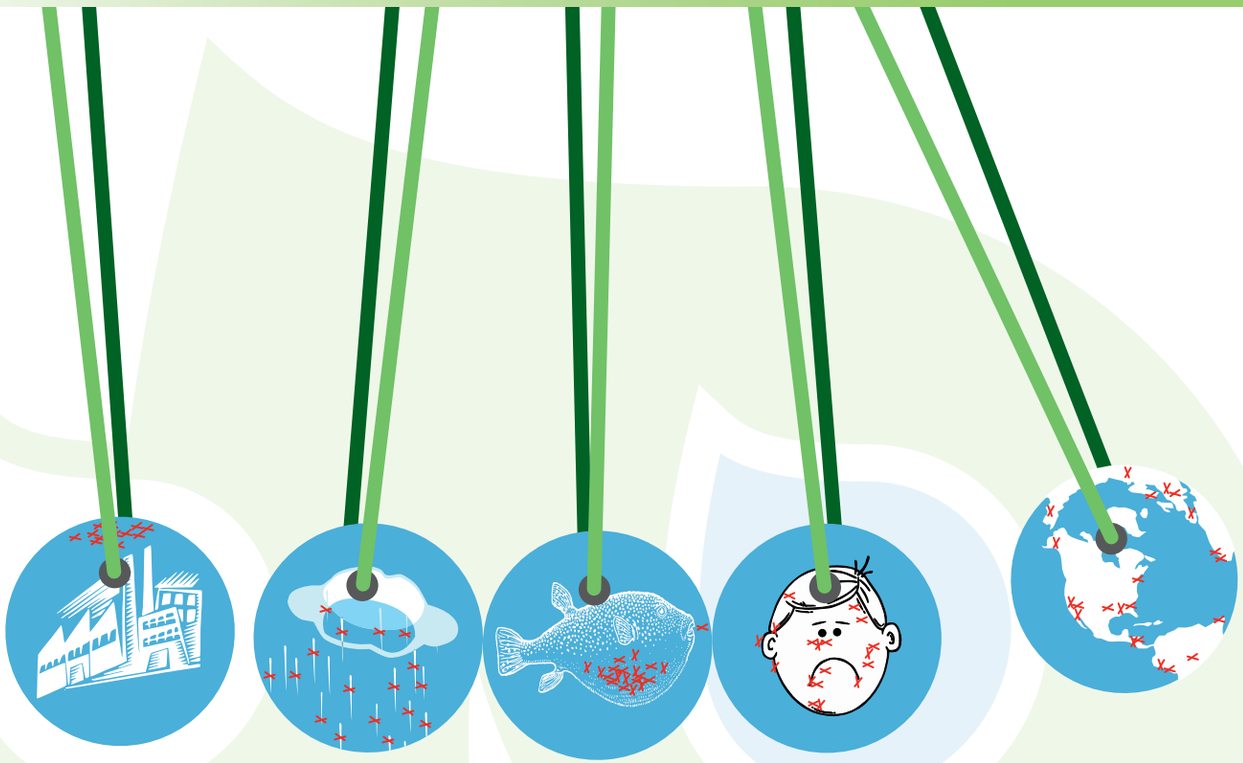
MIDWOR

Let's make a more sustainable world



Mitigation of environmental impact caused by Durable Water and Oil Repellents' textile finishing chemicals (DWOR) through a comprehensive study of their associated alternative non-toxic solutions.



DWOR (Durable Water and Oil Repellents) are textile finishing products made of long chain fluorocarbon polymers to give repellency to water, oil and dirt to fabrics. These chemicals are persistent and bioaccumulative.

Many perfluorochemicals have already been listed in different European regulations to put emphasis on their risk for humans and the environment.

These products have been used in the textile industry since many years ago and tentative to replace them has been done since 2000.

Alternative products are currently proposed by different chemical companies for textile applications, however, the toxicity and environmental impact of these new alternatives is still unknown.

The substitution of toxic and persistent perfluorochemicals is of high importance as they occupy a high place in the market and almost all alternatives are perfluorocarbons based products (fluorocarbons polymers with shorter chain length).

MAIN ACTIONS:

- Market study to determine which are the main chemical products used to provide water and oil repellence (DWOR) and on which textiles they are applied.
- Technical performance evaluation of most represen tative current DWORs and their alternatives at pre-industrial and industrial scale in companies.
- Determination of the environmental impact and risk assessment of most representative current DWORs and their alternatives.
- Identify DWORs with lower environmental impact and better performances to elaborate a road map and policy recommendations.

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