



HAZBREF Project

Work Package 4: Best practices in chemicals management in industry

Work Package 4

Best practices in chemicals management in industry: Case sectors and installations

- Increase knowledge on the management of hazardous chemicals via cooperation between operators and authorities
- Assessment of the case sectors and relevance with regard to potential releases of hazardous substances to the Baltic Sea
- Screening of BAT techniques and measures for the identified hazardous target substances
- Identifying hazardous substances preventing recycling and reuse in industry
- Output: Sector guidance reports
 - Recommendations for improvement of the chemicals management in the case sectors
 - Description of potential candidate BATs,
 - Recommendations to promote Circular Economy,
 - A permit model concerning chemicals





WP4 - Best practices in chemicals management in industry

- WP leader Institute for Ecology of Industrial Areas (IETU)
 - Activity 4.1: Sector guidance (IETU)
 - Activity 4.2: Case studies (IETU)
 - Activity 4.3: Development of BAT descriptions (SweEPA)
 - Activity 4.4: Circular economy aspects (SYKE)





Case sectors

- Textile (UBA)
 - TXT BREF preparation start in 2017
- Surface Treatment of metals and plastics (IETU)
 - STM BREF preparation start in 2019
- Chemical industry (Swe EPA)
 - Selection of subsectors (Inorganic, LVIC and Polymers, POL)
 - WGC BREF preparation start in 2016
 - LVIC BREF preparation start in 2019 / 2020





Activity 4.2: Case studies

Identification of opportunities for improvement of hazardous chemicals management and reduction of releases of hazardous substances to the environment at installation level.

Case study approach

The work is done for the installation in a step by step procedure:

- 1. Scope of the case study
- Identification of uses of hazardous chemicals
- 3. Screening of risks related to hazardous substances
- 4. Identification of applied techniques and measures to reduce releases of hazardous substances
- 5. Review of environmental and chemical permits and voluntary management systems
- 6. Preparation of report

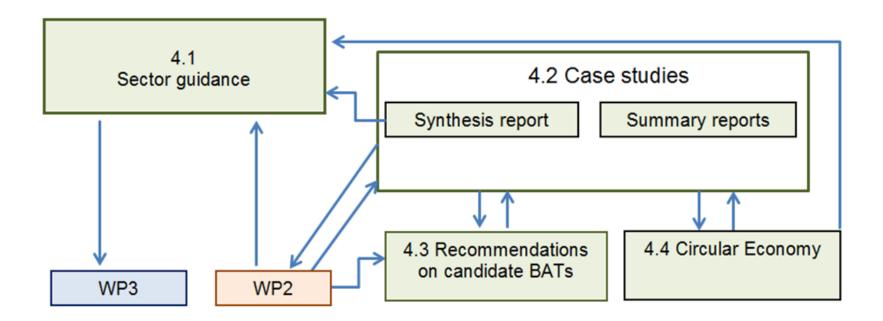
Based on the results of the case study the following reports will be prepared:

- 7. National summary report of the case studies
- 8. Preparation of the synthesis report (this will include all the case studies in the project)

All material to be published will be confirmed with the installation



Interaction of HAZBREF activites



Activity 4.4 Circular economy aspects

Objectives and focus

- Background: EU action plan for the Circular Economy
 - The Commission intends to enhance better resource use by including guidance on best waste management and resource efficiency practices in BREF documents
- The aim of Activity 4.4:
 - Identify and evaluate the opportunities and obstacles for recycling/reuse of wastes with regard to use and presence of hazardous substances in the materials in the production process
- Results of the activity:
 - produce information on the possibilities to promote nontoxic material cycles
 - better tracking of chemicals of concern in BREFs, as well as in permitting and enforcement activities.





Activity 4.4

Main tasks

 Analysis of the interfaces between waste legislation and IED/ Chemicals legislation/relevant products legislation (part of Activity 3.1)

Case Studies:

- Two facilities: substance flow analysis (SFA)
- Additionally in one facility: assessment of possibilities to increase the potential for recycling/reusing of products in their waste phase
- Selection of facilities in co-operation with Activity 4.2
- Selection of relevant hazardous substances in cooperation with Activity 2.1





Activity 4.4

Circular Economy considerations

Following SFA:

- Assessment of hazardous substances effects on recycling and reuse of waste and by-products
- Identification of possible techniques and measures to minimize obstacles for recycling, reuse and utilization of the case sectors wastes
- Product life-cycle considerations:
 - Assessment of hazardous substances effects on recycling of products
 - Identifying possible techniques and measures to minimize obstacles for recycling, reuse and utilization of the waste products
 - Identifying possibilities to include product-level aspects into sector BREFs







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