

GVS Cibatech Pvt. Ltd.



Environmental Risk Assessment *of Active Pharmaceutical Ingredients (API) in waste water*



- **Desktop risk assessment**
- **Development of test strategy**
- **Laboratory Analysis**
- **Hazard assessment**

Environmental Services

We offer you consultancy services based on our experience from within the chemical industry. Our knowledge-based services deliver consultancy on environmental, safety and regulatory issues worldwide.

GVS Cibatech offers deep understanding of Risk Assessment in general with many years experience of hazard assessment and exposure assessment. Extensive knowledge on the requirements of the Environmental Risk Assessment of Medicinal Products for Human Use is available, both on the studies necessary for hazard assessment and on exposure assessment

Assistance with Environmental Risk Assessments (ERA)

The pharmaceutical laden waste waters from the plants are normally treated in conventional treatment plants. Many active pharmaceutical ingredients are not eliminated by these treatments and are ultimately released into natural water bodies.

An Environmental Risk Assessment (ERA) is essential to know whether the APIs that you manufacture can find its way into the environment and if they pose any hazard.

This involves determining the levels of API that are actually present in the waste water and whether this constitutes an environmental risk.



For more information

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When a risk is identified, additional testing is required and/or safety measures need to be taken to reduce exposure to the environment where possible.

GVS Cibatech can assist you in the initial risk assessment process and further refinement with neutral, science based solutions. We are independent from CRO's and we share our knowledge with you to your advantage!

Following steps should be undertaken to tackle this challenge

- Environmental Risk Analysis
- Classification of APIs based on Eco-toxicity
- Method development to detect specific API in Waste Water with detection limit up to 10 ppb.
- Solutions for treating API contaminated waste water

Our Solutions:

- **Determine PEC and PNEC values.**
- **Method development to detect API in Waste stream.**
- **API limit detection in inlet –outlet of ETP.**
- **Solution to treat API contaminated waste waters prior to discharge.**

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