

TECHNICAL FACT SHEET

Ecotoxicology Expertise

Sustainability Inspired, Quality Driven.

Environment pollution by toxic substances can be associated with industrialization and agriculture.

Pollutants seep into ecosystems under different forms : industrial waste, consumption waste, drainage, run-off and spray drift of agricultural products, accidental spillage... These pollutants affect reproduction capability, growth capability and resistance of organism against multiple stress factors in their environment.

Our experts can give you an analytical answer to your different issues in the area of ecotoxicology and biodegradability.

Environmental analysis

Effluent quality and potential impact on receptor environment

- Acute toxicity: daphnia, algae, microtox...
- Chronic toxicity: daphnia, ceriodaphnia, algae, duckweed...
- Evaluation of biodegradable dissolved organic carbon

Sediments/soil quality

- HP14 criteria (MEEDDM protocol)
- Daphnia and other aquatic test on interstitial water or leachate
- Acute and chronic toxicity on plants or earthworms (spreading sediments)
- Chironomus tests

Fertilizing products and compost quality

- Acute and chronic toxicity on earthworms, collembola and plants

Waste classification

- HP14 property - Guidance INERIS-DRC-15-149793-06416A

ADR classification

- Hazardous material for the environment

Seawater, marine sediments or impact on marine environment

- Water toxicity tests: copepods, algae,
- Embryotoxicity tests: oyster
- Sediment toxicity tests: corophium
- Biodegradability

Impact on water treatment plant

- Inhibition of nitrification
- Inhibition of respiration

Analysis on chemical products

Substances evaluation in compliance with REACH regulation

- Biodegradability tests
- Fate and behaviour in environment
- Acute and chronic ecotoxicity tests

GHS (Global Harmonized system) regulation and C.L.P. (1272/2008/EC)

- Biodegradability tests
- Daphnia and algae tests
- Bioaccumulation tests

Plant Protection Products regulation (1107/2009/EC)

- Biodegradability tests
- Ecotoxicity tests

Biocidal regulation (EU No 528/2012)

- Biodegradability tests
- Ecotoxicity tests

OSPAR regulation to offshore chemical product notification (HOCNF)

- Biodegradability tests
- Ecotoxicity tests on marine's organisms.

Detergent regulation (648/2004/EC)

- Surfactants biodegradability
- Ecotoxicity tests

Marketing on finished product (allegations)

- Biodegradability tests
- Ecotoxicity tests
- Freshwater and/or seawater

Ecolabels/NF Environment referencial

- Evaluation of raw material, perfume, tinting substance to use in formulation (CDV chronic calculation)
- Aerobic and anaerobic biodegradability
- Acute and chronic toxicity on daphnids, algae

Our accreditations and recognition

COFRAC accreditations (N°1-6464, scope available on www.cofrac.fr):

LAB GTA 23 «microbial analyzes of the water»

GLP recognition – Categories 4 and 5

Environmental toxicity studies on aquatic and terrestrial organisms.

Studies on behaviour in water, soil and air; bioaccumulation.

Contact us

To discuss your ecotoxicology studies, contact our experts.

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