

Hazard Classification

Treat your waste right

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Avoid unnecessary costs and be compliant with regulation with a proper hazard classification. In a hazard classification, we identify physical, health and environmental hazards of a waste material, and compare these with relevant criteria to arrive at a classification of the material. The classification is important for labelling and packaging of materials as well as for on-site storage (permitting) and disposal options.

- Laboratory testing (elemental composition, mineralogical characterisation)
- Element speciation (geochemical modelling)
- From worst case assessment to realistic case assessment

Full service from test to treatment advice

We offer the full service required to classify your waste. We start by defining the relevant regulations. Next, elemental analyses, leaching tests and possibly mineralogical characterization are performed in our laboratories. Our experts interpret the lab results and deduct the most likely chemical speciation(s) of potential relevant substances in your waste stream. A tiered approach is used starting from a simple to more sophisticated tools and assessments. This is the basis for the classification as (non-)hazardous waste. The results are presented in a clear and scientifically grounded report.

Minimize treatment cost

The treatment and handling costs for hazardous waste are considerably higher than costs for non-hazardous waste. Avoid unnecessary costs by getting your classification right.

Be compliant with regulation

A multitude of laws, rules and regulations govern the extent to which waste needs to be considered as hazardous, including the Waste Framework Directive, Classification, Labelling and Packaging, List of Wastes. We help you define a hazard classification for your waste material.



Decades of experience across many sectors

ECN performs environmental risk assessments for various sectors, such as waste incineration, construction, mining, nuclear waste, and landfilling. We also advise on and develop methods to enable safe application of (waste) materials, such as contaminant immobilization and removal.

- Waste and Soil
- Circular Economy
- Hazard Classification
- Sustainable Landfilling
- Leaching Test Equipment
- LeachXS

Materials that we have worked with include industrial waste, municipal waste, incinerator bottom ash, fly ash, boiler ash, electric arc furnace slag, steel slag, concrete, cement, mortar, red mud, various filter cakes, and many more.

Accredited, high-quality work

All standardized tests are performed according to relevant norms and under ISO 17025 accreditation. Please contact us to determine which tests are most suitable for your product.

