



# Lubricants

## Environmental Compatibility

How sustainable is your product?

### Challenges

Due to their use, many lubricant products can directly or indirectly enter the environment.

### Certification / Ecolabel

Environmental compatibility and sustainability have become an unstoppable trend. Therefore, the question of environmentally compatible products increasingly arises. But how can the environmental compatibility of (traditionally mineral oil-based - now also vegetable oil-based) lubricant products be certified in a way that is effective for advertising? The possibilities range from biodegradability to labelling procedures such as the EU eco-label or the Blue Angel to self-developed sustainability concepts.

Once a label or concept has been chosen, the question of strategy arises: depending on the product or product line, a product-specific testing strategy must be developed while simultaneously taking into account other, e.g. legal requirements (such as registration under EU REACH or US Vessel General Permit, VGP). Finally, the results have to be evaluated and the application for the label has to be submitted.

### Development of sustainable products

For the ongoing improvement of environmental, occupational and health protection, hazardous raw materials must be replaced by other, less hazardous ones. Finding and selecting alternative raw materials towards more sustainability can be a big challenge. Questions arise such as: Which of the functionally equivalent raw materials are less toxic and at the

same time readily biodegradable? What are the main criteria for my selection? Do I want to rely more on renewable raw materials? The future viability of your products depends more and more on these questions.

### Services:

- Laboratory tests according to OECD 201, 202, 117, 301B, 301F or the respective ISO/DIN Norm
- Alternative to animal testing: OECD 236 or OECD 249
- Quality management of the laboratory: ISO 17025 and GLP
- Development of testing strategy
- Eco label (e.g. EU-Eco label (LuSC-List), Nordic Swan, Blue Angel)
- US-VGP
- Water hazard classes Germany and Switzerland
- Strategy development for the selection of alternative raw materials





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