

GREEN LUBRICANTS

We make it green

**INTERFAT**
Natural Oils & Oleochemicals

At Interfat, we offer the best alternative in the production of eco-friendly lubricants. We are in line with new regulations, the growing business awareness focused on environmental sustainability, and the increasingly demanding requirements of our end customers. This is the future we are building in the field of biodegradable lubricant development.

Our biodegradable lubricants are sourced from renewable materials and break down efficiently in both aquatic and terrestrial environments. The key to their biodegradation lies in the action of bacteria, fungi, and algae that use organic matter as a source of energy. The result is the generation of inert substances, primarily carbon dioxide (CO₂) and water (H₂O), which are reintegrated into the biological cycle.

A fact that underscores the reason for our choice: a single liter of non-biodegradable lubricant can pollute up to 1,000 liters of water.

At Interfat, we take pride in highlighting that our vegetable oils meet the rigorous biodegradability criteria established by the OECD, making them the undisputed choice for readily biodegradable materials. In contrast, most mineral oils barely achieve biodegradation rates ranging from 15% to 35%, which excludes them from the biodegradable category.

When you choose a biodegradable lubricant, you benefit from:

- Renewable plant-based raw materials.
- Free formulations from hazardous components.
- Lubricants that are environmentally friendly in both terrestrial and aquatic environments.
- Identification as readily biodegradable according to official tests by entities like OECD and ASTM.
- User safety without the need for special precautions during handling (as indicated in safety data sheets).
- The option to recycle our products.

Technical characteristics of biodegradable lubricants:

- High lubricity
- Low volatility
- High viscosity index
- High ignition points
- Good dispersion

Levels of biodegradability:

BASE LUBRICANTS	% BIODEGRADABILITY *
Mineral oil	15-35
White oil	25-45
Vegetable oils	70-100
PAO (Poly Alpha Olefins)	5-30
Polyethers	0-25
PIB (Poly Iso Butenes)	0-25
Phthalate and trimethylate esters	5-80
Polyols and diesters	55-100

(*) The biodegradability of a substance is determined when more than 60% of it naturally decomposes within 28 days.

At Interfat, we promote a more ecological and sustainable vision of the future. Together, we are making a difference and moving towards a cleaner and healthier world.

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