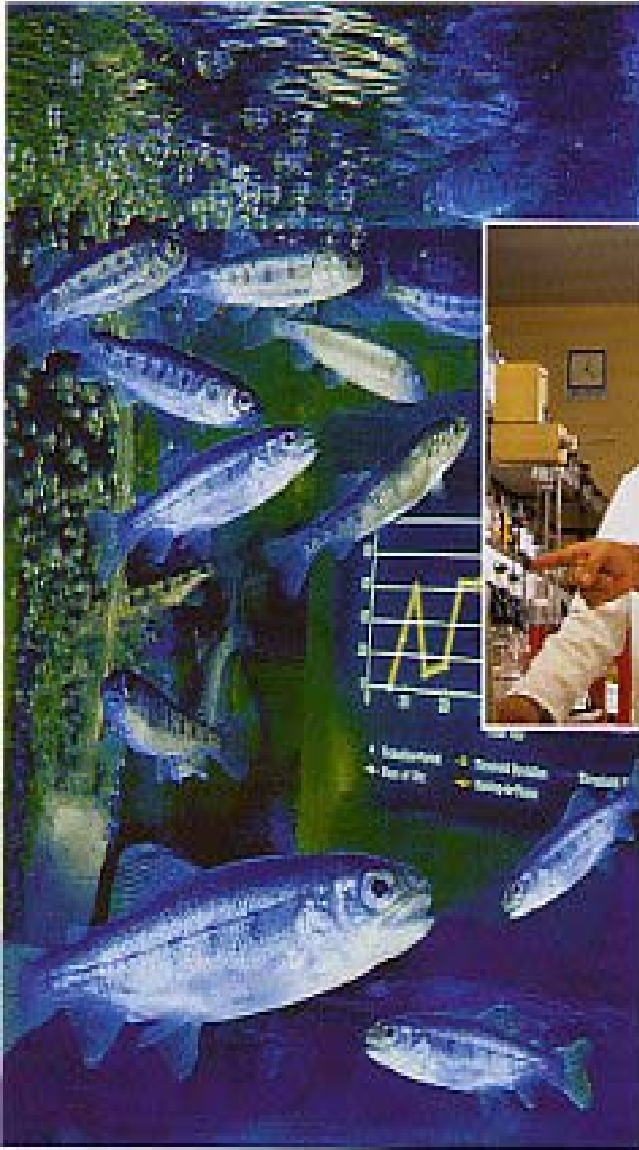


Townsend Bearings



Fuchs Bio-Degradeable Lubricants

FUCHS - Facing the Future with Experience and Innovation



Our workforce spreads over numerous subsidiaries in Europe and overseas and personifies expertise, creativity and competence.



They make sure that our wide range of lubricants not only contain standard products but also tailor-made solutions. And they are constantly looking for new and better lubricants in our inter-national laboratories and research departments.

And what makes us special is that our products not only fulfill growing technical and economic demands all over the world but also satisfy ecological requirements. In the late 70's, FUCHS developed the first rapidly biodegradable lubricants of the PLANTO line.

As a globally active Group with strong local roots, FUCHS today is one of the leading manufacturers of lubricants. In the decades following the company's foundation in Mannheim by Rudolf Fuchs in 1931, the company has developed from a family enterprise into an international Group with thousands of employees.

Many sectors have benefited from this development: car and motorcycle manufacturers, railroads and road transport, the steel industry and mining, engineering, agriculture and construction.



PLANTO - Proven in Practice Throughout the World

We grow — with harvestable raw materials. We do not just make use of natural resources for the production of PLANTO products, but we also market these environ-mentally friendly lubricants throughout the world. Our international success confirms our decision and motiva-tes us to continue investing in ecological research and development.



PLANTO chain saw oil. First introduced in 1985, this product was soon awarded the Angel” environmental seal. These saws use total-loss chain lubrication and PLANTO chain saw oils protect forests and ground water from unnecessary pollution.



A real bonus for municipal vehicle fleets: The use of rapidly biodegradable PLANTO oils saves money. The whole vehicle and machinery fleet operates perfect-ly and at lower cost. This guarantees long life and reliable operation.



Hydraulic oil spillages follow-ing burst hoses cannot generally be contained immediatly. PLANTO oils can reduce environmental damage and clean-up costs, particularly in Protected Water Zones.



The most natural case for the use of rapidly biodegradable lubricants is in agriculture. PLANTO oils and greases have excellent technical properties and protect the soil, plants and the ground water.



PLANTO hydraulic fluids are the environmentally friendly alternative for stationary, out-door hydraulic systems. They guarantee perfect function at all temperatures even over long periods of time.





Environmentally friendly metalworking oils for chip-forming operations, no problem for PLANTO products. They all display extremely low evaporation and misting losses and help reduce costs because they are easily disposed of.



PLANTO industrial lubricants and PLANTOGEL greases are universally applicable for water supply machinery and equipment, in protected water zones, in water purification plants and canal locks. All are non-toxic and classified in Water Pollution Category 0.



Lubricants are used in the construction industry for releasing moulds, for pre-fabricated construction and other concrete casting work. The Water Pollution Category 0 and the rapid biodegradability of PLANTO products thus solve an important ecological problem.



High performance engine and gear oils must offer the maximum operational reliability and the least possible wear at all temperatures and loads. PLANTO products fulfill these requirements with an optimal energy input.



Lubricants with greatly differing functions are integral elements of high-tech engineering. The use of PLANTO lubricants reflects the generally greater emphasis placed on protecting our environment — and offer higher performance at the same time as keeping possible ecological pollution to a minimum.

Our Strengths: Ecology and Economy

As an international company, we have a responsibility to our employees, our environment and future generations. We are able to act today to make sure that our world is worth living in tomorrow. We therefore purposefully apply our know-how to developing products which protect resources, reduce emissions and are simple to dispose-of.

And with great success because we can now supply rapidly biodegradable PLANTO lubricants for almost all applications.



PLANTO - Our Contribution to the Future

PLANTO products are high-performance lubricants based on harvestable raw materials. On one hand, this means that PLANTO lubricants display all the necessary properties to allow them to be used permanently in industrial and technical applications but also that vegetable oils, such as rapeseed oil, sunflower oil, palm oil and their derivatives along with other natural products form the basis of these lubricants. A major bonus for mankind and the environment:

These PLANTO products have been awarded the “BLUE Angel” environmental seal:

PLANTO HYD 155
PLANTO HYD 225
PLANTO HYD 46 S
PLANTO SYN 3268
PLANTO SYN 3268 ECO
PLANTO SYN 46 HVI
PLANTO TAC N
PLANTO SCHALLJNGSOL N
PLANTO SCHALLJNGSOI. S
50K ECO



PLANTO: High-Performance, Economical and Biodegradable

Because PLANTO products promote improved health and safety at work and help protect ground water and the soil. This is also why we are now the market leader with our environmentally friendly PLANTO series.

We began developing biodegradable lubricants as far back as the late 70's and our commitment has been worthwhile. Many of our PLANTO products have been awarded the coveted “Blue Angel” environmental seal because they do not pollute ground water and fulfill stringent ecological guide-lines regarding raw material selection. At the same time, these lubricants meet the highest technical and economic standards and often surpass the performance of mineral oil-based products. They are low consumption, have good ageing stability, save money, reduce friction and wear and offer excellent corrosion protection. Quality is the most important objective — an aim actively pursued by our Group subsidiaries, which are certified, to DIN ISO 9001, 9002 or 14001.



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