GB UNIBIO® CHAINSAW OIL RANGE

A premium range of biodegradable chainsaw chain oils formulated on vegetable oils

APPLICATIONS

There is an increasing awareness of the environmental impact of the large volume of lubricants entering the environment and, consequently, mineral-based lubricants in environmentally sensitive areas are being gradually replaced by biodegradable fluids.

To protect the environment, the use of environmentally considerate lubricants is of increasing importance, where either the risk of spillage is high or total loss lubrication applies. However, the technical performance of such lubricants must have equal priority.

The GB UNIBIO® CHAINSAW OIL RANGE are specially developed dedicated chain oils with adhesive properties, which will protect and lubricate the chains and bars of chainsaws. Used correctly, they will prolong the life of the chain and reduce breakage.

PERFORMANCE FEATURES

The GB UNIBIO® CHAINSAW OIL RANGE has been formulated to meet the current technical and environmental requirements of today's chainsaws and offers the following features:

- Full biodegradability according to all major standards
- A product which is free of genetically modified ingredients
- Good anti-wear performance
- Good corrosion protection
- Good anti-fling protection
- Extended working life of equipment
- Suitability for use on all heavy-duty forestry harvesting equipment
- Compliance with specification requirements for all leading chainsaw manufacturers

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FORMAL APPROVAL

GB UNIBIO® CHAINSAW OIL RANGE has been approved for supply to the Environment Agency of England and Wales with effect from June 2005.

COMPATIBILITY

Ideally, the GB UNIBIO® CHAINSAW OIL RANGE should not be contaminated with other oils or water. Whilst contamination with other oils may not affect the equipment, it is likely to reduce the biodegradability and non-toxicity of the oil and should therefore be avoided.

CHARACTERISTICS

TEST	UNIT	METHOD	TYPICAL PHYSICAL CHARACTERISTICS		
ISO			**68**	**100**	**220**
Appearance	-	-		Pale amber liquid	
Density @15°C	kg/m^3	IP 160	923	923	926
Kinematic Viscosity @ 40°C	cSt	IP 71	69.12	94.69	226.1
Kinematic Viscosity @ 100°C	cSt	IP 71	14.93	20.35	47.50
Viscosity Index	-	IP 226	229	241	268
Kinematic Viscosity @ -20°C	mm^2/s	-	1754	2379	6055
Kinematic Viscosity @ -20°C after 72 hours storage	mm^2/s	SS 15 54 34	2040	2839	6954
Cloud Point	°C	ASTM D2500	-17.4	-17.7	-19.4
Biodegradability	%	OECD 301 B	>74	>74	>74
Biodegradability	%	CEC L-33-A-93	92	92	92
Flash Point PMCC	°C	ASTM D93	252	248	224
Flash Point COC	°C	ASTM D92	306	294	271
Pour Point	°C	ASTM D97	-33	-36	-36

STORAGE, HANDLING AND SHELF-LIFE

The GB UNIBIO® CHAINSAW OIL RANGE should be stored under cover and protected from extreme temperatures. Avoid water collecting in the rim of upturned barrels.

HEALTH AND SAFETY AND THE ENVIRONMENT

The GB UNIBIO® CHAINSAW OIL RANGE is not classified as hazardous under current UK Health & Safety and Environmental Legislation when used in the application for which it is intended.

For guidance on storage and handling of all lubricants and related products, GB Lubricants recommend the Environment Agency, www.environment-agency.gov.uk, as an excellent source of advice.

If you have any queries, please do not hesitate to contact either your local Technical Sales Representative or our Technical Department.

The Company policy is to ensure that a range of products is supplied which complies with the latest specifications and codes within the relevant industry. As part of this development process, we therefore reserve the right to amend formulations and specifications, without prior notice.