



Hi-Tec Oil Traders Pty Ltd ABN 28 053 837 362

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PRODUCT DATA SHEET

BIO-CHAIN AND BAR 100, 150, 220

Hi-Tec Bio-Chain and Bar 100, 150 and 220 are biodegradable ISO 100, 150 and 220 grade chain and bar lubricants containing vegetable oil based esters, performance additives and a special anti-fling additive to help the oil adhere to the chain. They are intrinsically biodegradable according to OECD 301B.

Hi-Tec Bio-Chain and Bar 100, 150 and 220 do not contain mineral lubricating oils: they are based on high quality vegetable oil esters, which in comparison with mineral oil based lubricants are more easily biodegraded, less hazardous and more suitable for use in environmentally sensitive areas. They are much less likely to cause any harm to soil, waterways or other parts of the environment than mineral oil based lubricants.

Hi-Tec Bio-Chain and Bar 100, 150 and 220 display excellent viscosity - temperature characteristics due to the high inherent viscosity index of vegetable oil esters.

Compared with mineral oil based lubricants **Hi-Tec Bio-Chain and Bar 100, 150 and 220** are:

More easily biodegradable

Less hazardous

More suitable for use in environmentally sensitive areas

Hi-Tec Bio-Chain and Bar 100, 150 and 220 were developed to meet and exceed the current requirements of the forestry and related industries. They may be used for hand operated or automatic oilers and other applications involving chain driven equipment.

Hi-Tec Bio-Chain and Bar 100, 150 and 220 can be used in air driven down hole hammers and are particularly suited to use in environmentally sensitive areas such as;

National or State parks

Near or on waterways

Recreational areas

Road, rail and tramways

Local Government Maintenance Vehicles

Water, Electricity, Telecommunication and Gas Service providers etc.

Hi-Tec suggests that the equipment manufacturers' recommendations for viscosity grade, performance requirements and general operating conditions should be checked prior to use. **Hi-Tec Bio-Chain and Bar 100, 150 and 220** are fully miscible and compatible with mineral oils, therefore changing to **Hi-Tec Bio-Chain and Bar 100, 150 and 220** is simple as no prior system flushing is required.

Hi-Tec Bio-Chain and Bar 100, 150 and 220 contain ester components which may be incompatible with certain elastomers used as seals, hoses or other components. Prior to full scale commercial use it is recommended that compatibility with system components is determined by the user. For further advice contact your local reseller or supplier.

Avoid contamination with water. Where possible drying equipment should be used and water drained after any shutdown period.



AUSTRALIAN FAMILY OWNED SINCE 1989





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TYPICAL CHEMICAL AND PHYSICAL CHARACTERISTICS

Properties	Test Method	ISO 100	ISO 150	ISO 220
Appearance	Visual	Clear yellow liquid	Clear yellow liquid	Clear yellow liquid
Odour		Bland fatty	Bland fatty	Bland fatty
Density (kg/L @ 15°C)	ASTM D4052	0.93	0.93	0.93
Kinematic Viscosity (mm ² /s @ 40°C)	ASTM D445	100	150	220
Kinematic Viscosity (mm ² /s @ 100°C)	ASTM D445	17.7	24.3	32
Viscosity Index	ASTM D2270	195	195	190
Pour Point (°C)	ASTM D97	-15	-15	-15
Flash Point Open Cup (°C)	ASTM D92	>150	>150	>150
Corrosiveness to Copper	ASTM D130	1a	1a	1a
Rust Preventing Characteristics	ASTM D665	Pass A & B	Pass A & B	Pass A & B
Sulphated Ash (%m/m)	ASTM D874	0.01	0.01	0.01
Water Content (%v/m)	ASTM D95	<0.1	<0.1	<0.1

AVAILABLE IN: 200Litres, 20Litres, 5Litres, 1Litre

"The facts stated and the recommendations made herein are believed to be accurate. No guarantee of their accuracy is made however, and unless otherwise expressly provided for in written contract, the product is sold without conditions or warranties, expressed or implied. Purchasers should determine the suitability of such products for their particular use. "

Effective: October 2014

Expires: October 2016

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