

ENVIRO HYDRO-LUBE SERIES

Water Glycol Fire Resistant Hydraulic Fluids

Magna's Enviro-Hydro Lube™ is a high performance state of the art hydraulic fluid technology that is specifically engineered for today's most demanding industries without compromising with our fragile environment. Enviro-Hydro Lube™ 200R and 46B are specialty hydraulic fluids that are biodegradable, environmentally friendly, fire resistant, pass factory mutual standards and are

Eco-Logo Approved by Terra Choice Environmental Canada. Enviro-Hydro Lube™ is suitable for most hydraulic systems used in the mines, forestry, steel mills and the marine industry.

Enviro-Hydro Lube™ is the hydraulic fluid technology of the future made available today!



ENVIRO HYDRO-LUBE 200R

Water Glycol Fire Resistant Hydraulic Fluid

DESCRIPTION

ENVIRO HYDRO-LUBE 200R is a premium, general purpose water glycol fire resistant hydraulic fluid, which provides a safer working environment than conventional mineral oil based hydraulic fluids. In applications where hydraulic piping may rupture and spray hydraulic fluid onto hot surfaces, mineral oil based fluids can ignite causing a severe hazard to plant personnel and equipment.

RECOMMENDED USES

ENVIRO HYDRO-LUBE 200R is recommended for use in precision industrial and mobile hydraulic systems operating at system pressures up to 2000psi @ 50°C (Note: higher operating pressures[3000 psi] and temperature may be possible).

FEATURES

- Excellent Fire Resistance
- Good anti-wear characteristics
- Liquid and Vapour phase corrosion inhibited
- Inherently low pour point and excellent viscosity temperature characteristics
- Non-WHMIS controlled, low toxicity
- Readily biodegradable, low ecotoxicity

BENEFITS

- Reduced risk of injury to plant personnel and damage to equipment caused by hydraulic fluid fires. Lower insurance costs.
- Increased pump protection against premature pump and component wear. Reduced downtimes and lower maintenance costs.
- Protects system reservoir and components (ferrous and non-ferrous) against rust and corrosion. Extended equipment life, reduced downtime and maintenance costs.
- Excellent cold temperature properties, wide operating temperature range.
- Greater workplace acceptance. Reduced health and safety concerns. Reduced health and safety concerns. No special handling or disposal requirements.
- Reduced environmental liability in case of spills or leaks.

PROPERTY	METHOD	TYPICAL
Colour and Appearance	Visual	Clear, Red
Viscosity, cSt @ 40°C	ASTM D-445	44
Water by Karl Fischer Titration, %	ASTM D-1744	39
Pour Point, °C	ASTM D-97	-50
pH	FLA 003	9.5
Reserve Alkalinity (mL 0.1 NHC 1 to neutralize 100mL of fluid to pH 5.5)	FLA 011	180
100 Hour Pump Stand Test, mg wear/hour	ASTM D-2882	0.60
100 Hour Vickers Pump Test mg wear/hour	20-VQ-5	0.93

NOTES

20-VQ-5 Pump Stand Test Conditions:

Pump Pressure	3000psi
Pump Speed	1200 rpm
Flow rate	5 gpm
Temperature	65°C

The Vickers 20-VQ-5 Pump Stand Test has been developed to provide hydraulic fluid performance data in combination with ASTM D-2882.

PACKAGING

ENVIRO HYDRO-LUBE 200R is available in 20 litre pails, 205 litre drums, totes and bulk shipments as required.

ENVIRO HYDRO-LUBE 46B

High Pressure Water Glycol Fire Resistant Hydraulic Fluid

DESCRIPTION

ENVIRO HYDRO-LUBE 46B is a premium, high pressure, water glycol fire resistant hydraulic fluid, which provides a safer working environment than conventional mineral oil based hydraulic fluids. In applications where hydraulic piping may rupture and spray hydraulic fluid onto hot surfaces, mineral oil based fluids can ignite causing a severe hazard to plant personnel and equipment.

RECOMMENDED USES

ENVIRO HYDRO-LUBE 200R is recommended for use in precision industrial and mobile hydraulic systems operating at system pressures up to 7000psi @ 50°C (Note: higher operating pressures and temperature may be possible).

FEATURES

- Excellent Fire Resistance
- Good anti-wear characteristics
- Liquid and Vapour phase corrosion inhibited
- Inherently low pour point and excellent viscosity temperature characteristics
- Non-WHMIS controlled, low toxicity
- Readily biodegradable, low ecotoxicity

BENEFITS

- Reduced risk of injury to plant personnel and damage to equipment caused by hydraulic fluid fires. Lower insurance costs.
- Increased pump protection against premature pump and component wear. Reduced downtimes and lower maintenance costs.
- Protects system reservoir and components (ferrous and non-ferrous) against rust and corrosion. Extended equipment life, reduced downtime and maintenance costs.
- Excellent cold temperature properties, wide operating temperature range.
- Greater workplace acceptance. Reduced health and safety concerns. Reduced health and safety concerns. No special handling or disposal requirements.
- Reduced environmental liability in case of spills or leaks.

PROPERTY	METHOD	TYPICAL
Colour and Appearance	Visual	Clear, Blue
Viscosity, cSt @ 40°C	ASTM D-445	44
Water by Karl Fischer Titration, %	ASTM D-1744	38
Pour Point, °C	ASTM D-97	-63
pH	FLA 003	9.0
Reserve Alkalinity (mL 0.1 NHC 1 to neutralize 100mL of fluid to pH 5.5)	FLA 011	175
100 Hour Pump Stand Test, mg wear/hour	ASTM D-2882	0.10
100 Hour Vickers Pump Test mg wear/hour	20-VQ-5	0.13

NOTES

20-VQ-5 Pump Stand Test Conditions:

Pump Pressure 7000psi
 Pump Speed 1200 rpm
 Flow rate 5 gpm
 Temperature 65°C

The Vickers 20-VQ-5 Pump Stand Test has been developed to provide hydraulic fluid performance data in combination with ASTM D-2882.

PACKAGING

ENVIRO HYDRO-LUBE 46B is available in 20 litre pails, 205 litre drums, totes and bulk shipments as required.

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Your Partner in Chemical Innovation



NAFTA Region
North America Office:
Magna Chemical Canada Inc
1450 Government Road West,
Kirkland Lake, Ontario P2N 2E9,
Canada
Email magna@vapro.com
Website <http://www.vapro.com>

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