

Product Data Sheet

LubriSilk® LSCL
Chain Lubricant



LUBRISILK® CHAIN LUBRICANT

LubriSilk® Chain Lubricant (LSCL) is used in a variety of applications, from heaving lifting to marine use. Metal chain is subject to high forces, so that any weakening of the chain through poor lubrication and environmental damage places the chain at risk of breakage and further collateral damage. The majority of chains used in industry suffer unnecessarily short lives, but the problem is not the fault of the chains but rather the method in which they are lubricated.

A common method of chain lubrication involves applying a heavy oil or grease to the outside of the chain. While this does a reasonable job of lubricating the sprockets and the outside of the chain, it does little to protect the most vulnerable areas of the chain: the contacting surfaces inside the pin and bushing, plate, roller and hook. So the majority of chains fail from the inside. They stretch or kink up due to wear and corrosion wear inside the pin and bushing area.

To lubricate chains properly, the lubricant needs to penetrate and clean the inside of the chain, to remove contaminants and displace any trapped water that it encounters, and leave behind a heavy film of lubricant. Chains operating in dusty or dirty environments require a combination of actions, penetrating to the inside of the chain with oil, but leaving the outside of the chain nearly dry. A penetrating-chain lubricant not only displaces water, but also cleans dirt and wear metals out of the pins of the chain and off of the sprockets. Corrosion attacks all metal surfaces, especially in marine environments, eating into the parent metal.

USAGE

LubriSilk® Chain Lubricant with **Boron-CLS-Bond®** reduces metal wear and corrosion. Reduces friction, causing less stress on drives and sprockets, uses less energy, and protects the most vulnerable areas of chain: bushing, plate, roller, and hook. Rust and oxidation inhibition is inherent in the **Boron-CLS-Bond®** system.

LubriSilk® Chain Lubricant has a pH value of 5 - 6.5 (very weak acid), with boron content in the form of boron-based molecules and has a water washout value of <3%. It has an operating range from -4 C. to 120 C., with a Flash Point of 140 C. It is also biodegradable and exhibits very low toxicity for worry free operations, and meets the **OSHA** non-hazardous criteria of federal standard 29CFR 1910.1200.

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APPLICATIONS

When the area is completely dry, apply **LubriSilk® Chain Lubricant** by brush or spray soak before use.

SPECIFICATIONS

Form.....	liquid
Color	transparent light brown
pH.....	6.5 – 7.3 at 118.2g/l at 25°C (77°F)
Melting/freezing point.....	melting point/range -40°C (-40°F) -lit.
Boiling point.....	183°C (361 °F) -lit.
Flash point.....	>94°C (201°F) - close cup
Ignition temperature.....	290°C (554°F)
Auto ignition temp.....	no data available
Lower explosion limit	1.3% (V)
Upper explosion limit	7.4% (V)
Vapor Pressure	0.06 hPa (0.02 mmHg) at 20°C (68°F)
Density	0.884 g/cm³ at 25°C (77°F))
Water solubility.....	not determined
Partition coefficient.....	log Power: -0.14
n-octano/water	
Relative vapour.....	4.08
Density.....	- (Air=1.0)
Odour.....	mild
Odour Threshold.....	no data available
Evaporation rate.....	no data available

PACKAGING

Bottle.....	32 oz / 946 ml
Pail.....	35 lb / 16.6 litre
Drum.....	400 lb / 189.3 litre
Tote.....	2000 lb / 946.0 litre

