

Technical Data Sheet

**MOLY
PAUL**

PBC
Poly-Butyl-Cuprysil

Sheet reference : TMP

Product:

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CHAINLIFE SX

DESCRIPTION: CHAINLIFE SX is manufactured from highly stable blends of synthetic fluids which are clean, contain no silicones or solid lubricants, are non-carbonising in use and provide wet lubrication of bearings subjected to elevated temperatures for prolonged periods. The material does not break down at elevated temperatures to produce hard lacquers which can at best prove difficult to remove, and at worst, build up and block oil-ways thereby preventing any subsequent lubrication leading to rapid and costly wear. The extreme pressure capabilities and low evaporation characteristics exhibited by CHAINLIFE SX are provided by the use of high-technology additives. Evaporation at temperatures up to 230°C is very low. This means that conveyor chains and bearings exposed to such high temperatures for extended periods will be protected by a film of synthetic fluid, and do not need to be continuously lubricated. The synthetic fluids have a very low order of toxicity.

TYPICAL USE: CHAINLIFE SX is formulated for use on oven conveyor chains, drive mechanisms, bearings, skid plates, keepers, bushes, pins, trips and wheels (linkages and cruciform bearings) which are continuously exposed to high temperatures and heavy loads. Such mechanisms are found in the bakery industry, automobile painting and assembly industries, insulation manufacturing industry, metal container manufacturing and finishing industries, and elsewhere.

METHOD OF APPLICATION: CHAINLIFE SX may be applied by brush, oil can, gravity feed or fully automated solid-shot conveyor lubrication systems. Spray lubrication is possible, but generally not recommended.

TYPICAL CHARACTERISTICS.

	<u>Specification</u>		<u>Typical Value</u>
Colour	---	---	Yellow/Brown
Operating Temperatures	---	Continuous (1) Intermittent (2)	230°C 250°C
Kinematic Viscosity	IP71/87	40°C 100°C	200 Cst. 15 Cst.
Evaporation (% weight loss)	---	200°C (24/48hr) 220°C (24/48hr)	2.1%, 4.0% 4.7%, 11.5%
Four Ball Wear Test	ASTM D4172	40 kg/1hr	0.30 mm

	Specification		Typical Value
Specific Gravity	IP365/85	25°C	0.96
Flash Point	IP35/63	---	288°C
Fire Point	IP35/63	---	310°C
Copper Strip Corrosion	ASTM D130-68	---	1a

NOTES:

- (1) This material is extremely cost-effective in use but it is necessary to apply fresh material at a frequency influenced by the operating environment. The word 'continuous' does not imply lubrication "for life".
- (2) Intermittent is defined as the point above which the material becomes non cost-effective in use. The figure indicated is typical, however the actual figure is determined by the environment in which the material operates, and should be found by site trials.

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