



Renewable Lubricants, Inc.
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Bio-SynXtra™ Firearm Lubricant CLP

Biobased Cleaner, Lubricant, and Preservative for Firearms (MIL-PRF-63460E)

Bio-SynXtra™ Firearm Lubricant CLP is a readily biodegradable, biosynthetic-blend lubricant formulated for cleaning, lubricating, and preserving small and large caliber firearms. Developed to meet MIL-PRF-63460E specifications, this light-duty fluid performs in a wide operating temperature range, delivering superior lubrication in subzero and high-temperature conditions. Ideal for both military and civilian firearm maintenance, Bio-SynXtra™ CLP is an environmentally responsible alternative to petroleum-based products.

Benefits

- Cleans, lubricates, and preserves in one product
- Exceptionally low pour point (-79.6°F / -62°C) for cold weather performance
- Prevents deposits, firing pin misfires, and mechanism jams
- Provides smooth mechanical action in automatic weapons
- Excellent corrosion resistance in tight tolerances
- Performs where convectional lubricants fail at high temperatures
- Non-toxic, not bioaccumulative, and readily biodegradable
- Ideal for field use in diverse climates and industrial lubrication
- Compliant with EPA 2013 VGP guidelines for EALs

Application / New Filling

Recommended for:

- Cleaning and lubricating all types of firearms
- Preservation and protection of weapon systems in storage or transit
- Industrial applications where extreme low-temperature or environmental exposure is a concern
- Suitable for both manual and automatic firearms used in military, law enforcement, and civilian sectors

Specifications and Approvals

- Meets MIL-PRF-63460E
- EPA 2013 VGP Compliant – Environmentally Acceptable Lubricant (EAL)
- Exceeds acute toxicity requirements (LC-50 / EC-50 > 1000 ppm)
- ASTM D 5864 Ultimately Biodegradable
- OECD 301B Readily Biodegradable
- Patented Stabilized™ HOBBS Technology

STABILIZED™
by Renewable Lubricants

TYPICAL SPECIFICATIONS		
Viscosity, Kinematic @ 40°C	ASTM D-445	14.5 cSt
Viscosity, Kinematic @ -40°C	ASTM D-445	< 5000 cSt
Flash Point, (COC)	ASTM D-92	320°F (160°C)
Pour Point	ASTM D-97	-62°C (-79.6°F)
4-Ball Wear, 1h, 167°F, 1200RPM, 40 kg	ASTM D-4172	0.5
Pine and Vee Block Test	ASTM D-5620	>500 lb.
Biobased Content	Calculated	52%
Item #		81940