

BIOBLEND MPO

Overview: is a readily biodegradable, bio based high performance multi-purpose lubricant designed for commercial, household, and general lubrication applications. It is ideal for use on oven and conveyor chains, wire ropes, cables, slides, open mechanisms, and light duty metal cutting and tapping applications. Its excellent lubricity and temperature stability provide smooth mechanical performance and superior antiwear protection. BioBlend MPO is NSF registered as meeting the guidelines of an H1 product for incidental food contact. Available in liquid or aerosol.

Specifications, Approvals, Recommendations:

- NSF H1 Food Grade
- USDA BioPreferred Program
- Classified as Environmentally Acceptable Lubricants (EAL's) as per the EPA's 2013 U.S. Vessel General Permit (VGP)

Physical Properties	MPO Base Fluid
ISO Grade	28
Specific Gravity, ASTM D1298	0.98
Viscosity, ASTM D445 @40°C, cSt	28
Viscosity, ASTM D445 @100°C, cSt	6.5
Viscosity Index (VI), ASTM D2270	197
Pour Point, ASTM D97, °F (°C)	0 (-18)
Flash Point, ASTM D92, °F (°C)	>350 (177)
Copper Corrosion, ASTM D4048	PASS
4 Ball Wear, ASTM D4172, Scar, mm	.40
Environmental Stewardship: Meets EPA requirements to be classified as an EAL per the 2013 VGP	
Readily Biodegradable (meaning>60%) OECD 301B, %	PASS >73
Minimally Toxic OECD 201 - Algae (EC 50), 72 hr, mg/L OECD 202 - Daphnia (EC 50), 48 hr, mg/L OECD 203 - Fish (LC 50), 96 hr, mg/L	PASS >59,000 mg/L >58,000 mg/L >87,000 mg/L
Not Bioaccumulative* [*Calculated value as per EPA standard]	PASS
Additional Environmental Features and Characteristics	
Bio-based Content, ASTM D6866, %	>76

Applications & Industries: Any industry (construction, refuse, mining, dredging, marine, agriculture, oil & gas, food processing, plant operations, etc.) utilizing conveyors, chains, cables, winches, or mobile or stationary equipment, especially systems where a release into the environment is possible or where a leak or spill could reach a waste stream. Use BioBlend MPO in place of WD-40™ for an environmentally friendly alternative.

