

PRODUCT NAME

BioBlend Multi-Purpose Oil (MPO)

MANUFACTURER

BioBlend Renewable Resources, LLC.
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OVERVIEW

BioBlend Multi-Purpose Oil (MPO) is a biobased, high-performance, multi-purpose lubricant designed for commercial, household, and general lubrication applications. Formulated from a plant-based oil, it has inherent cleaning capabilities. It is odor-free, which makes it ideal for use in small confined spaces. Its excellent lubricity and temperature stability provide smooth mechanical performance and superior anti-wear protection. BioBlend MPO is NSF registered as meeting the guidelines of an H1 product for incidental food contact.

FEATURES AND BENEFITS

- Odor Free
- Low toxicity
- Cleans & lubricates
- Protects against rust and corrosion
- Reduces wear and friction
- Displaces moisture
- Excellent temperature stability
- NSF H1 Food Grade Registered

PACKAGING

- 11 OZ Aerosol (box of 12)
- 5 Gallon Pails
- 55 Gallon Drums
- 275 Gallon Totes
- Bulk

SUITABLE USES

- Oven and conveyer chains
- Wire ropes
- Cables
- Slides
- Open mechanisms
- Hinges
- Bearings
- Rollers
- Gears
- Sprockets
- And other commercial, household and general lubrication applications

STORAGE AND SHELF LIFE

Storage – Keep in a cool, dry and well-ventilated place. Store in a properly labelled, original container. Containers which are opened must be carefully resealed and kept upright to prevent leakage. To help maintain product quality, do not store in heat or direct sunlight.

Shelf Life - Product shelf life is 24 months from date of packaging. In some cases product can last longer, please contact your BioBlend representative for proper testing and confirmation instructions.

CAUTIONS

Ensure adequate ventilation. Do not breathe vapor/dust. Use personal protective equipment and avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. See the Safety Data Sheet (SDS) for emergency, proper handling and disposal information. Intentional misuse by concentrating and inhaling the product can be harmful or fatal. **KEEP OUT OF REACH OF CHILDREN.**

APPLICATION

Aerosol

- Shake can well before using
- Apply a light coat on parts that need lubrication
- Allow product to “soak in”
- Repeat if necessary

Pail, Drum, Tote:

- Apply a light coat on parts that need lubrication
- Allow product to “soak in”
- Repeat if necessary
- If older than 18 months some agitation of the product may be necessary to maintain optimal effectiveness
- If you have further questions please contact BioBlend Tech Services by filling out the 'contact us' form on bioblend.com

AVAILABILITY

USA and Canada through distribution network.

APPROVALS / CERTIFICATIONS

- NSF H1 – Registered - #141200
- USDA BioPreferred – 81%
- Classified as Environmentally Acceptable Lubricants (EAL's) as per the EPA's guidance document that defines standards for Environmentally Acceptable Lubricants (EPA

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800-R-11-002) and as required by EPA's 2013 U.S. Vessel General Permit (VGP).

TYPICAL PROPERTIES

Property	ASTM Test Method	MPO
Product Code		FBB1100022
ISO Grade		28
Specific Gravity	ASTM D1298	0.98
Viscosity @40°C, cSt	ASTM D445	28
Viscosity @100°C, cSt	ASTM D445	6.5
Viscosity Index (VI)	ASTM D2270	197
Pour Point °F (°C)	ASTM D97	0 (-18)
Flash Point °F (°C)	ASTM D92	>350 (177)
4 Ball Wear, Scar, mm	ASTM D4172	.40
Corrosion Protection	ASTM D665A	Pass
Copper Corrosion	ASTM D4048	1A
Readily Biodegradable (meaning>60%)		Pass
Biodegradability	OECD 301B	>73
Minimally Toxic		Pass
Algae (EC 50), 72 hr, mg/L	OECD 201	>59,000
Daphnia (EC 50), 48 hr, mg/L	OECD 202	>58,000
Fish (LC 50), 96 hr, mg/L	OECD 203	>87,000
Not Bioaccumulative (Calculated value as per EPA standard)		Pass
Bio-based Content, %	ASTM D6866	>76

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