

ELM Switch Plate Lubricant (ISO 46)
Pat Number: ILO-150-46
Biobased Railway Switch Lubricant



DESCRIPTION	ELM Biotechbased Switch Plate Lubricant is a biodegradable, non-toxic and water-resistant lubricant. ELM Switch Plate Lubricant is formulated with natural seed oils and proprietary additives to protect railway switches from wear and prevent rust and corrosion while not impacting the environment. Available in ISO 46 and 68 grades.	
BIOBASED – BIODEGRADABLE-NON-BIOACCUMULATIVE	Based on evaluation of the base oils and the finished products, the ELM biobased products are designed to be biodegradable, aquatically non-toxic, not-bioaccumulative, and with no impact on plants as determined by known test methods. Nevertheless, the use of all of ELM products are subject to the local ordinances and ultimate responsibility for impact remains with the users.	
APPLICATIONS	<ul style="list-style-type: none"> ■ Railroad switches ■ Can be poured, brushed, wiped or sprayed on with mechanical sprayers ■ Available in ISO 46 grade for applications requiring lighter oil or in ISO 68 grade for more staying power. 	
BENEFITS	<ul style="list-style-type: none"> ■ Biodegradable and virtually non-toxic ■ Eliminates caustic and toxic chemicals ■ Less flammable than petroleum-based lubricants ■ Resists washout from rain or ice melting ■ Good penetration into switch ■ Resists build-up of dust and dirt ■ Conforms to EPA's EPP and USDA biobased criteria ■ Made from renewable USA-grown crop-based oils 	
DIRECTIONS	ELM Biotechbased™ Switch Plate Lubricant is designed to be wiped, poured, brushed on or used in a mechanical sprayer.	
TYPICAL PROPERTIES	ISO Viscosity Grade	46
	Viscosity at 40°C (cSt)	44
	Viscosity Index	223
	Flash Point, °C (°F)	256 (493)
	Pour Point, °C (°F)	-25 (-13)
	Base Oil Biodegradability – OECD 301	Pass
	Base Oil Aquatic Toxicity – OECD 202	Non toxic
	Base Oil Plant Toxicity - OECD 208	Non toxic
PACKAGING	5 Gal. Pails 55 Gal. Drums 275 Gal. Totes	

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