



TECHNICAL DATA SHEET

EZ SWITCH[®] SWITCH PLATE LUBRICANT

Whitmore's EZ Switch[®] has distinguished itself as a switch plate lubricant that works. It is easy to apply; it forms a protective coating on the switch plate, resists rain, and stops wear.

After it is applied, EZ Switch[®] begins to dry on the switch. Operating the switch causes the lubricant to "plate out". As the switch operates, the coating becomes denser in the contact area. This enhances wear protection.

HOW TO APPLY:

Whitmore's EZ Switch[®] can be used on all types of railroad switches, both manual and electric. It can be applied by pouring, brushing, or spraying. Completely cover the switch with the thinnest layer possible.

RAIN:

EZ Switch[®] can be applied to wet switches, and it won't wash off in the rain. As EZ Switch[®] dries, it becomes even more resistant to rain.

FREQUENCY OF LUBRICATION:

With EZ Switch[®], a switch that operates twice as often does not need lubrication twice as often. Because of varying climates and operating conditions, it is impossible to give a hard-and-fast lubrication frequency.

- A good place to start is to lubricate all switches and revisit them after a week.
- Those that operate often or are subject to difficult conditions may need relubrication after one week.
- In extreme cases, more than once a week may be needed.
- In most cases, switches that are used less often will require lubrication cycles that are longer than a week.
- Most operators consider once a month as the longest interval for infrequently used switches.

BENEFITS:

- REDUCES FRICTION AND WEAR - low coefficient of friction facilitates ease of switch operation. This minimizes effort and risk of injury on manual switches.
- LONG LASTING PROTECTION - less frequent reapplication saves time and lowers consumption.
- OPERATING RANGE - can be used at temperatures as low as -60°F (-51°C). One grade is suitable for year-round use.
- EASY TO APPLY - it can be poured, brushed, or sprayed.
- RESISTS CONTAMINANTS – does not attract dirt.

PACKAGING:

It is available in pails, kegs, drums, totes, or through a custom-tailored bulk lubricant system that can be designed to fit your requirements and meet your switchyard operational needs.

Product tends to separate. If possible, store container upside-down. Shake or stir before use. For larger containers a compressed air line can be inserted to create agitation.

APPLICATIONS:

EZ Switch[®] is formulated primarily for use on railroad switch plates (railway slide chairs). It can also be used on wire ropes. Because it is high in graphite, it is suitable for use in high temperature applications (>600°F, or >315°C) where the fluid components will evaporate or burn off and leave a dry graphite lubricant.

ASTM #		TYPICAL CHARACTERISTICS
	NLGI Grade	Lighter than 000
D-2983	Viscosity (Brookfield Viscometer) Spindle HA-2 @ 5 rpm @ 77°F (25°C), cps	2,080
Gardner Method	Density, lb/gal @ 60°F (15.5°C) Specific Gravity, g/cc @ 60°F (15.5°C)	8.09 1.091
D-92	Flash Point, °F (°C), Cleveland Open Cup (Base Oils)	311 (155)
D-97	Pour Point, °F (°C)	5 (-15)
D-1743	Rust Test, Distilled Water	Pass
OEM Standard	Low Temperature Pumpability Lincoln Ventmeter @ 400 psi, °F (°C)	-60 (-51)
	Conventional Commercial Pump-Up Sprayer, °F (°C)	40 (4)
	Appearance	Dark Gray Fluid

The above are average values. Minor variations which do not affect product performance are to be expected in normal manufacturing.

PACKAGING

Shuttle Tanks	Nonreturnable Totes	Drums	Kegs	Pails
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WHITMORE'S

MATERIAL SAFETY DATA SHEET

Not classified as hazardous according to criteria of Worksafe Australia.

I. IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY					
Product Name:	EZ Switch®	Manufacturer/Supplier:			
Chemical Family:	Petroleum Hydrocarbon	The Whitmore Manufacturing Company			
Use:	Switch Plate Lubricant	930 Whitmore Drive Rockwall, Texas 75087, U.S.A.			
Emergency Tel. No.:	CHEMTREC	U.S.A. & Canada	800-424-9300 (24 hrs)		
		International	703-527-3887 (Collect - 24 hr)		
		Australia	00-111-703-527-3887 (Collect - 24 hr)		
II. COMPOSITION INFORMATION ON INGREDIENTS					
Hazardous Components	CAS No.	Wt%	OSHA PEL	ACGIH TLV	Other Limits of Exposure
None					
III. ADVERSE HUMAN HEALTH EFFECTS					
Eyes:	Any eye contact will cause irritation.				
Skin:	Prolonged skin contact may cause irritation.				
Inhalation:	Breathing fumes in confined areas at elevated temperatures will cause lung irritation.				
Ingestion:	May be harmful if swallowed.				
IV. FIRST AID MEASURES					
Eyes:	Flush with large amounts of cold water. If irritation persists, SEEK MEDICAL ATTENTION.				
Skin:	Thoroughly wash exposed area with soap and water.				
Inhalation:	Provide fresh air source. If irritation persists, SEEK MEDICAL ATTENTION.				
Ingestion:	If cathartic effect persists, SEEK MEDICAL ATTENTION.				
V. FIRE FIGHTING MEASURES					
Extinguishing Media:	Foam, Dry Chemical, Carbon Dioxide				
Unsuitable Extinguishing Media:	None known.				
Fire Fighting Protective Equipment:	If product is overheated, use organic NIOSHA/MSHA filter-type respirator.				
VI. ACCIDENTAL RELEASE MEASURES					
Personal Precautions:	Wear plastic or neoprene rubber gloves and safety goggles.				
Environmental Precautions:	Check state regulatory requirements.				
Spillage:	Absorb with dry, inert material and shovel up.				
VII. HANDLING AND STORAGE					
Handling:	Keep away from open flame or sparks.				
Storage:	Keep away from open flame or sparks.				
VIII. EXPOSURE CONTROL/PERSONAL PROTECTION					
Respiratory Protection:	None				
Hand Protection:	Protective gloves for hypersensitive persons.				
Eye Protection:	Safety Goggles				
Body Protection:	None				

HMS SYMBOLS

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	1
Reactivity	0
PPI	B

MSDS-092

Effective Date: 12-19-95

Revised Date: 10-01-08

IX. PHYSICAL AND CHEMICAL PROPERTIES							
Physical State:	Semi-Fluid/Fluid	Color:	Dark Grey	Odor:	Petroleum		
Boiling Range/point, °F (°C):	>800 (>426)	Melting Point, °F (°C):	N/A				
Flash Point (CO), °F (°C):	>230 (>110)	Autoignition Temperature, °F (°C):	>600 (>316)				
Explosive Properties:	LEL: N/A	UEL: N/A	Evaporation Rate (Butyl Acetate):	Nil			
Partition Coefficient (Log Pow):	N/A	Vapor Pressure (kPa):	Nil				
Density:	1.09 - 1.13	Flammability:	N/A				
Oxidizing Properties:	None	Solubilities in Water:	Nil	Vapor Density:	<1	% Volatiles:	Nil
X. STABILITY AND REACTIVITY							
Stability:	Chemically stable under normal conditions.						
Conditions to Avoid:	None known.						
Materials to Avoid:	Strong oxidizing agents.						
Decomposition Products:	Oxides of carbon and hydrocarbons.						
XI. TOXICOLOGICAL INFORMATION							
Acute Toxicity:	None	Skin Irritancy:	Very Mild				
Chronic Toxicity:	None	Skin Sensitization:	None				
Sub-acute/Subchronic Toxicity:	Not Known		Genotoxicity:	Not Known			
California Prop 65:	None Listed		EC Classification (67/548/EEC):	N/A			
Carcinogenicity:	NTP: No	IARC:	No	OSHA:	No		
LC-50:	Not Available						
XII. ECOLOGICAL INFORMATION							
Possible Effects:	None known.						
Behavior:	Relatively well behaved. Bioaccumulation potential nil.						
Environmental Fate:	Not thought to be toxic to marine or land organisms.						
XIII. WASTE DISPOSAL							
Product Disposal:	Contact waste disposal company or local authority for advice.						
Container Disposal:	Check state regulatory requirements.						
XIV. TRANSPORT INFORMATION							
DOT:	Not Regulated		UN No.:	Not Regulated			
Air Transport (ICAO/IATA):	Not Regulated						
Sea Transport (IMO/IMDG):	Not Regulated						
Road and Rail Transport (ADR/RID):	Not Regulated						
XV. REGULATORY INFORMATION							
Labeling Information:	N/A		EC Annex 1 Classification:	N/A			
R Phrases:	N/A						
S Phrases:	S2 Keep out of the reach of children.						
Ozone Depleting Chemicals:	None/Nil		TSCA:	All components listed.			
WHMIS (Canada):	N/A						
EPA Regulation 40 CFR Part 372 (SARA Section 313):	None						
XVI. OTHER INFORMATION							
None							

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