

Safety Data Sheet

Date: April 30, 2019

ALL_RAIL S Switch Plate Lube

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Section I: Identification

Product Name: ALL_RAIL S Switch Plate Lube
Chemical Family: Synthetic Ester Switch Plate Oil
Manufacturer: Triboscience & Engineering, Inc.
520 Sykes Road
Fall River, MA 02720

Emergency Telephone Number:
508-674-9116
Email: PABessette@tselubes.com

Section II: Hazards Identification

GHS Classification:

None

GHS Label Elements:

Hazard Pictograms: None
Signal Word: None
Hazard Statements: None
Precautionary Statements: P260 Do not breathe dust, mist, or vapors.
P273 Avoid release to the environment.
P281 Use personal protective equipment as required.
P314 Get medical attention if you feel unwell.
P411 Store at temperatures not exceeding 150°C.
P402 + P404 Store in a dry place, in a closed container.
P501 Dispose of content and container according to local and national regulations.

Section III: Composition

<u>CAS Number</u>	<u>Chemical Name</u>	<u>Content by Mass</u>
Mixture	Synthetic Ester Oil	100%

Section IV: First-Aid Measures

Eye Contact: Flush thoroughly with clear water for 15 minutes or until irritation subsides. Contact physician.

Skin Contact: Wash with soap and water. Remove any contaminated clothing and wash with soap and warm water. Get medical attention if symptoms occur.

Inhalation: Move to fresh air and refer to a physician for treatment.

Injection: Consult physician immediately.

Ingestion: Contact physician immediately.

Other: Exercise ordinary measures of personal hygiene.

Section V: Fire-Fighting Measures

Extinguishing Media: Dry chemical, CO₂, foam, or sand/earth.

Unusual Fire or Explosion Hazards: Dense smoke can form in a fire. Do not store or mix with strong oxidizers. Empty containers contain residue. Do not cut, drill, grind, or weld as they may explode.

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Special Fire-Fighting Measures: Avoid smoke inhalation. Water or foam may cause frothing. Cool exposed containers with water. Use air supplied rescue equipment for enclosed areas.

Section VI: Accidental Release Measures

Spill or Leak Procedures: Wipe or scrape up spillage and place it in a container for disposal. Product may be absorbed with an inert material such as sand, soil, or vermiculite. Wash walking surfaces thoroughly with detergent and water to reduce slipping hazard. Keep petroleum products out of sewers and water courses. Advise authorities if product has or may enter sewers or water courses.

Waste Management and Disposal: Assure conformity with applicable regulations. Consult local, state and federal regulations applicable to your area.

Section VII: Handling and Storage

Handling: Avoid contact with skin and eyes. Use with adequate ventilation. Avoid breathing if this material is atomized in a mist.

General Hygiene Advice: Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

Storage: Keep container closed and in a dry, well-ventilated place. Temperatures exceeding 150°C can evolve fumes. Temperatures exceeding 60°C can result in undesirable (not dangerous) interactions with a polyethylene drum liner.

Section VIII: Exposure Controls and Personal Protection

Control Parameters:

Exposure Guidelines: Particulates Not Otherwise Regulated (PNOR)
OSHA PEL: 15 mg/m³ (Total Dust), 5 mg/m³ (Respirable Particulate)
ACGIH TLV: 10 mg/m³ (Inhalable Particulate)

Exposure Controls:

Ventilation: None required unless mists, smoke or vapors are produced at high temperatures.

Personal Protective Equipment:

Goggles: Safety glasses recommended.
Gloves: Oil resistant gloves recommended, especially to avoid prolonged or repeated skin contact.
Respirator: Not required unless mists, smoke or vapors are produced at high temperatures.
Other: Use oil resistant apron, if needed.

Section IX: Physical and Chemical Properties

Appearance: Synthetic Oil
Color: Yellow
Odor: None
Odor Threshold: Not available

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Physical State:	Liquid
pH:	Not applicable
Melting Point:	<-25°C (lower viscosity grades have lower MP)
Initial Boiling Point:	>200°C
Flash Point:	>200°C
Auto-ignition Temperature:	>200°C
Evaporation Rate:	Negligible
Lower Explosive Limit:	Not available
Upper Explosive Limit:	Not available
Vapor Pressure:	Negligible
Vapor Density:	Not available
Specific Gravity:	0.85 at 25°C
Solubility in Water:	Insoluble
Partition Coefficient:	Not available
Decomposition Temperature:	Not available
Viscosity:	Varies. Viscosity at 40°C is close to ISO grade.

Section X: Stability and Reactivity

Reactivity: Stable

Hazardous Polymerization: Will not occur.

Chemical Incompatibilities: Avoid contact with strong oxidants, such as liquid chlorine and concentrated oxygen.

Hazardous Decomposition Products: Burning may produce carbon monoxide, carbon dioxide, and other fumes.

Other: None

Section XI: Toxicological Information

Synthetic hydrocarbon oil: Acute Oral LD50 >2,000 mg/kg (additivity formula)
Acute Dermal LD 50 >2,000 mg/kg (additivity formula)

Section XII: Ecological Information

Synthetic hydrocarbon oil: Chronic Toxicity 0.6 mg/L (additivity formula)

Section XIII: Disposal Considerations

According to RCRA (40 CFR 261), this material is not hazardous waste when the as received lubricant is discarded.

Dispose of in accordance with all local, state, provincial, and federal regulations.

Section XIV: Transport Information

DOT (49 CFR 171.101): Not hazardous

IMDG (ocean): Not hazardous

IATA (air): Not hazardous

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Section XV: Regulatory Information

Contents of this MSDS comply with OSHA HAZARD Communication Standard 29 CFR 1910.1200.

EPA SARA Title III Chemical Listing:

Section 313: Use of this oil at levels below 150,000 kg/yr are below reporting requirements based on composition.

CERCLA Hazardous Substances: No substances with a reportable quantity.

TSCA Status: All chemical substances listed are included or exempt from listing on TSCA.

Section XVI: Other Information

While the information and recommendations set forth herein are believed to be accurate as of the date hereof, Triboscience & Engineering, Inc. makes no warranty with respect thereto and disclaims all liability with respect thereon.