



Material Safety Data Sheet

Generic Name: POCO L.W. Switch Oil

Date: September 11, 2000

THIS GENERIC MSDS REPRESENTS THE FOLLOWING POCO PRODUCTS:

<u>Trade Name</u>	<u>Commodity Code No.</u>
POCO L.W. Switch Oil	59215

Synonyms:	Lubricating Oil	Technical Contact:	(918) 495-5933
CAS No.:	Mixture (Refer to Section 1)	Medical Emergency:	(918) 495-4700
		CHEMTREC Emergency:	(800) 424-9300

MATERIAL HAZARD EVALUATION

(Per OSHA Hazard Communication Standard [29 CFR 1910.1200])

Health Precautions: Protect exposed skin from repeated or prolonged exposure.

Safety Precautions: Do not store material in open or unmarked containers.

HMIS Rating¹ Health: 0 Flammability: 1 Reactivity: 0

1.0 GENERIC COMPOSITION / COMPONENTS

Components	CAS No.	%	Hazard Data
Refined Petroleum Oil(s)	64741-88-4 64742-01-4 64742-62-7 64742-54-7 64742-57-0 72623-87-1 64741-95-3	> 90	Oral LD ₅₀ (rat): > 5g/kg Skin and Eye: Mild irritant Hazard data are based upon similar components.
Extreme Pressure, Oxidation and Rust Inhibitor	Mixture	< 5	Dermal: Mild Irritant Eye: Irritant
VI Improver	Mixture	< 1	Dermal & Eyes: Mild Irritant

¹Hazard Rating: least-0, slight-1, moderate-2, high-3, extreme-4.

POCO assigned these values based upon an evaluation conducted pursuant to NPCA guidelines. Use of an asterisk (*) indicates that the material may present chronic health effects.

NA-Not Applicable

ND-No Data

NE-Not Established

2.0 PHYSICAL DATA

PHYSICAL HAZARD CLASSIFICATION (Per 29 CFR 1910.1200)

Combustible	No	Flammable	No	Pyrophoric	No
Compressed Gas	No	Organic Peroxide	No	Reactivity	No
Explosive	No	Oxidizer	No	Stable	Yes

Boiling Point, 760 mm Hg, °C (°F): ~ 338 - 449 (~ 640 - 840)
Specific Gravity (60/60 °F) (H₂O = 1): ~ 0.88 - 0.92
Vapor Density (Air = 1): > 1
% Volatiles by Volume: Negligible
Melting Point, °C (°F): NA
Vapor Pressure, mm Hg (25°C): 1 x 10⁻⁵ to 4 x 10⁻⁴
Solubility in Water: Negligible
Evaporation Rate (n-butyl acetate = 1): < 1
pH of Undiluted Product: NA
Appearance and Odor: Amber to dark amber liquid, mild petroleum odor

3.0 FIRE AND EXPLOSION DATA

Flash Point, OC, °C (°F): 228 - 293 (442 - 565)
Flash Point, CC, °C (°F): 200 - 214 (392 - 417)
Fire Point, OC, °C (°F): 254 - 342 (489 - 648)
NFPA Rating²: Health: 0 Flammability: 1 Reactivity: 0
Flammable Limits (% by volume in air): Lower: NA Upper: NA
Extinguishing Media: CO₂, dry chemical, foam, water fog
Special Fire Fighting Procedure: None.
Unusual Fire or Explosion Hazard: Water can cause frothing.

4.0 REACTIVITY DATA

Stability: Stable.
Conditions Contributing to Instability: None.
Incompatibility: Strong oxidizers.
Hazardous Decomposition Products: CO₂, (CO with incomplete combustion),
(thermal, unless otherwise specified) Traces of sulfur oxides.
Hazardous Polymerization: Hazardous polymerization is not expected to occur.

5.0 SPILL, LEAK AND DISPOSAL PROCEDURES

Procedure if Material is Spilled:

- Remove sources of heat or ignition; provide ventilation; contain leak.
- **Small Spills:** Absorb released material with non-combustible absorbent. Place into containers for later disposal. (See Waste Disposal section below.)

²Hazard Rating: least-0; slight-1; moderate-2; high-3; extreme-4.

POCO assigned these values based upon an evaluation conducted pursuant to NFPA guidelines.

5.0 SPILL, LEAK AND DISPOSAL PROCEDURES (continued)

- **Large Spills:** Evacuate area in the event of significant spills. Adequately ventilate area and determine potential exposure conditions. Exposure potential may require the use of respiratory protection. Use protective clothing. Contain spill in temporary dikes to avoid product migration and to assist in recovery. Do not allow material to escape into sewers, ground water, drainage ditches or surface waters.
- Control ignition sources around spill area. Use of a fire fighting foam blanket on spilled material will reduce vapor release and fire potential.
- Administer first aid, as needed.
- Report spills as required to appropriate federal, state and local authorities.
- OSHA regulations may require establishing a regulated area with site control.

Waste Disposal:

- It is the responsibility of the user to determine if the material is a hazardous waste at the time of disposal.
- Transportation, treatment, storage and disposal of waste material must be conducted in accordance with RCRA regulations (see 40 CFR 260 through 40 CFR 271).
- State and/or local regulations may be more restrictive.
- Contact the RCRA/Superfund Hotline at (800) 424-9346 or your regional US EPA office for guidance concerning case specific disposal issues.

Protective Measures During Repair and Maintenance of Contaminated Equipment:

- Refer to Section 7.0 - Special Protection Information.
- Keep unnecessary persons from hazard area.
- Drain and purge equipment, as necessary, to remove material residues
- Use gloves constructed of impervious materials such as neoprene or heavy nitrile and protective clothing if direct contact is anticipated.
- Provide ventilation to maintain exposure potential below applicable exposure levels.
- Eliminate heat and ignition sources.
- Remove contaminated clothing.
- Wash exposed skin thoroughly with soap and water.

6.0 HEALTH HAZARD DATA

Health Hazard Classification (Per 29 CFR 1910.1200):

Highly Toxic	No	Sensitizer	No
Toxic	No	Reproductive Effects	No
Corrosive	No	Mutagen	No
Irritant	No	Target Organ	No

Carcinogen:

Product/Component	CAS No.	Conc. (%)	NTP	IARC	OSHA	Other
POCO Oils, SUS 2	Mixture	100	No	No	No	No

NA-Not Applicable

ND-No Data

NE-Not Established

6.0 HEALTH HAZARD DATA (continued)

Toxicity Summary: Generally of a low order of toxicity.

Major Route of Entry: Inhalation of incidental mists or vapors and dermal contact.

Acute Exposure Symptoms:

- Inhalation:** In enclosed spaces or when hot, vapors may reach concentrations sufficient to cause drowsiness, dizziness, headache, nausea, or lung irritation. Mist concentrations well above applicable workplace exposure levels can cause serious lung damage.
- Dermal:** The products represented by this MSDS can cause mild transient skin irritation in some individuals.
- Eye:** The products represented by this MSDS can cause mild eye irritation in some individuals.
- Ingestion:** Upon ingestion of large quantities, gastrointestinal discomfort, diarrhea, and headache can occur.
- Injection:** Injection under the skin, in muscle or into the blood stream can cause irritation, inflammation, swelling or serious permanent tissue damage.

Chronic Exposure Symptoms:

Prolonged and/or frequent contact may cause drying, cracking (dermatitis) or folliculitis.

Other Special Effects:

None expected.

Medical Conditions Aggravated by Exposure:

Repeated or prolonged exposures to skin can aggravate pre-existing skin conditions.

First Aid and Emergency Procedures for Acute Effects:

- Inhalation:** Move victim to fresh air. If victim is not breathing, immediately begin cardiopulmonary resuscitation (CPR). If breathing is difficult, 100 percent humidified oxygen should be administered by a qualified individual. Seek medical attention immediately.
- Dermal:** Remove contaminated clothing. Wash exposed skin with soap and water. Launder clothing before use. Seek medical attention if tissue appears damaged or if irritation persists.
- Eyes:** Flush eyes with cool water while occasionally lifting and lowering eyelids. Remove contact lenses if worn. Seek medical attention if excessive tearing, irritation or pain persists.
- Ingestion:** Induce vomiting only upon the advice of a physician. Never give anything by mouth to a person who is not fully conscious. Seek medical attention immediately.
- Injection:** Injection under the skin, in muscle or into the blood stream is a medical emergency. Seek medical attention immediately.

Notes to Physician

The viscosity range of the products represented by this MSDS is greater than 400 SUS at 100° F, Accordingly, upon ingestion, there is minimal risk of aspiration into the lungs. Removal by emesis or careful gastric lavage may be considered. Protection of the airway is recommended.

Subcutaneous or intramuscular injection requires prompt surgical debridement.

7.0 SPECIAL PROTECTION INFORMATION

Ventilation Requirements:

Use in well ventilated area. In confined space, mechanical ventilation may be required to keep levels of certain components below applicable workplace exposure levels as evaluated by designated and adequately trained personnel.

Applicable Workplace Exposure Levels:

Chemical Component	ACGIH TLV TWA ppm (mg/M ³)	ACGIH TLV STEL/Ceiling (C) ppm (mg/M ³)	ACGIH TLV Skin notation?	OSHA PEL TWA ppm (mg/M ³)	OSHA PEL STEL/Ceiling (C) ppm (mg/M ³)	OSHA PEL Skin notation?
Oil Mist, Mineral	(5)	(10)	No	(5)	NE	No

Specific Personal Protective Equipment:

Personal protective equipment should be selected based upon the conditions under which this material is used. A hazard assessment of the work area for PPE requirements should be conducted by a qualified professional pursuant to OSHA regulations.

Respirator: At elevated temperatures, vapor or mist concentrations may exceed applicable workplace exposure levels. Use a NIOSH or MSHA approved organic vapor/mist chemical cartridge respirator when elevated airborne concentrations are anticipated.

Eyes: Safety glasses or chemical splash goggles if splashing is anticipated.

Dermal: Use gloves constructed of impervious materials such as heavy nitrile rubber or neoprene if frequent or prolonged contact is expected.

Clothing or Equipment: Wear body-covering work clothes to avoid prolonged or repeated exposure. Launder contaminated work clothes before reuse.

8.0 TRANSPORTATION AND SPECIAL PRECAUTIONS

Storage: Store in a cool, dry, well ventilated area. Do not apply heat or flame to container. Keep separate from strong oxidizing agents.

Caution: Empty containers may contain product residues which can ignite with explosive force. Consult appropriate federal, state and local authorities before reusing, reconditioning, reclaiming, recycling or disposing of empty containers and/or waste residues of this product.

DOT Information:

Proper Shipping Name:	Petroleum Lubricating Oils
Hazard Class:	Non-Hazardous
Hazard Identification No.:	None assigned
Packaging Group:	None assigned
Placard:	None

9.0 ENVIRONMENTAL DATA

Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 313 - Toxic Chemicals:

This product is not known to contain any components in concentrations above *de minimis* levels that are listed as toxic chemicals in 40 CFR Part 372 pursuant to the requirements of Section 313 of SARA.

Section 311/312 - Hazard Categories:

This product may meet one or more of the criteria for the hazard categories defined in 40 CFR Part 370 as established by Sections 311 and 312 of SARA as indicated below:

Immediate (Acute) Health Hazard:	<u>No</u>	Sudden Release of Pressure Hazard:	<u>No</u>
Delayed (Chronic) Health Hazard:	<u>No</u>	Reactive Hazard:	<u>No</u>
Fire Hazard:	<u>No</u>		

Section 302 - Extremely Hazardous Substances:

This product is not known to contain any components in concentrations greater than one percent that are listed as Extremely Hazardous Substances in 40 CFR Part 355 pursuant to the requirements of Section 302(a) of SARA.

Clean Water Act (CWA):

Under the CWA, discharges of crude oil and petroleum products to surface water without proper Federal and State permits must be reported immediately to the National Response Center at (800) 424-8802.

Comprehensive Environmental Response, Compensation & Liability Act (CERCLA) Section 102 Hazardous Substances:

As defined by CERCLA, the term "hazardous substance" does not include petroleum, including crude oil or any fraction thereof which is not otherwise specifically listed or designated as a hazardous substance.

New Jersey Worker and Community Right-to-Know Act:

Petroleum Oil (EP Gear Lubricants)

Toxic Substances Control Act (TSCA):

Reported in TSCA Inventory as:	Product	Components
POCO E.W. Switch Oil		X

10.0 LABELING

NOTE:

This product has been determined not to be a physical or a health hazard as defined by the OSHA Hazard Communication Standard.

ALL STATEMENTS, INFORMATION, AND DATA PROVIDED IN THIS MATERIAL SAFETY DATA SHEET ARE BELIEVED TO BE ACCURATE AND RELIABLE, BUT ARE PRESENTED WITHOUT GUARANTEE, REPRESENTATION, WARRANTY, OR RESPONSIBILITY OF ANY KIND, EXPRESSED OR IMPLIED. ANY AND ALL REPRESENTATIONS AND/OR WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE SPECIFICALLY DISCLAIMED. USERS SHOULD MAKE THEIR OWN INVESTIGATIONS TO DETERMINE THE SUITABILITY OF THE INFORMATION OR PRODUCTS FOR THEIR PARTICULAR PURPOSE. NOTHING CONTAINED HERE IN IS INTENDED AS PERMISSION, INDUCEMENT OR RECOMMENDATION TO VIOLATE ANY LAWS OR TO PRACTICE ANY INVENTION COVERED BY EXISTING PATENTS, COPYRIGHTS OR INVENTIONS.