# Material Safety Data Sheet

*Prepared according to OSHA Hazard Communication Standard (29 CFR 1910.1200) and ANSI MSDS Standard (Z400.1). Complies with Canadian Workplace Hazardous Materials Information System (WHMIS) standards.*

**Revision Date** 27-Jun-2014

**Revision Number** 4

## 1. PRODUCT AND COMPANY IDENTIFICATION

| | |
|---|---|
| **Product Name** | SWEPCO 212 Moly Multi-Grade Gear Lube |
| **Product Code** | W20691 |
| **Chemical Family** | Petroleum hydrocarbon |
| **Recommended Use** | Lubricant |
| **Supplier Address** | Southwestern Petroleum Corporation, 534 North Main St, Fort Worth, TX 76106 USA<br>1-800-877-9372<br>www.swepcousa.com |
| **Emergency Telephone Number** | Chemtrec 1-800-424-9300 in US; Canutec 1-613-996-6666 in Canada. |
| **UN-No** | None |

## 2. HAZARDS IDENTIFICATION

**Emergency Overview**

Not expected to present a significant health hazard upon short term exposure. May cause skin irritation and/or dermatitis. May be harmful if swallowed. Product is combustible but will not readily ignite.


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|---|---|---|---|---|---|
| **NFPA** | | | | | |
| **Health** | 1 | **Flammability** | 1 | **Instability** | 0 |
| **WHMIS** | Not a WHMIS controlled product | | | | |
| **Appearance** | Dark grey, Black | **Physical State** | Liquid | **Odor** | Petroleum distillates |

**Principle Routes of Exposure** Skin contact. Eye contact.

**Acute Health Effects**

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|---|---|
| **Skin** | Avoid prolonged and/or repeated contact with skin. Prolonged and/or repeated contact with this material may produce skin irritation or inflammation. Personnel with pre-existing skin disorders should avoid contact with this product. |
| **Eyes** | Contact with eyes may cause irritation. |
| **Inhalation** | Avoid breathing of vapors or spray mist. May cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of oil mist at airborne levels above the recommended mineral oil mist exposure limits (ACGIH TLV TWA: 5 mg/m$^3$; ACGIH TLV STEL: 10 mg/m$^3$; OSHA PEL TWA: 5 mg/m$^3$). |
| **Ingestion** | Ingestion is not considered a likely route of exposure. Low order of acute oral toxicity, but minute amounts aspirated into the lungs during ingestion may cause mild to severe pulmonary injury and possibly death. |
| **Carcinogenic Effects** | Carcinogenic effect of the complete mixture has not been evaluated. Information on individual ingredients which may have carcinogenic effects, if any, will be found in Section 3 & 11. |

**Chronic Health Effects**
Reports have associated repeated and prolonged occupational overexposure to petroleum based products with liver, kidney, brain and nervous system damage. There is, however, no reported human evidence that these effects occur when exposure is maintained below OSHA and ACGIH limits

**Aggravated Medical Conditions** No information available.

See Section 11 for additional toxicological information.

See Section 12 for ecological information.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

If any of the components of this product are defined as hazardous by OSHA Hazard Communication Standard 1910.1200 and are present at 1% or more (0.1% or more for carcinogens) or are considered hazardous components according to Canadian WHIMIS standards, they will be listed in this section. If no components appear in this section, no components of the product meet or exceed the reporting requirements.

## 4. FIRST AID MEASURES

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| **Eye Contact** | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |
| **Skin Contact** | Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician. |
| **Inhalation** | Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. If symptoms persist, call a physician. |
| **Ingestion** | Consult a physician or Poison Control Center immediately. Do not induce vomiting without medical advice. |
| **Notes to Physician** | Treat symptomatically. |

## 5. FIRE-FIGHTING MEASURES

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|---|---|
| **Flammable Properties** | Combustible material: may burn but does not ignite readily. |
| **Suitable Extinguishing Media** | Water spray or fog, dry chemical, carbon dioxide (CO2) or foam. Cool containers with flooding quantities of water until well after fire is out |
| **Hazardous Combustion Products** | No information available. |
| **Specific Hazards Arising from the Chemical** | Keep product and empty container away from heat and sources of ignition. |
| **Protective Equipment and Precautions for Firefighters** | As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. |

## 6. ACCIDENTAL RELEASE MEASURES

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|---|---|
| **Personal Precautions** | Avoid contact with skin, eyes and clothing. |
| **Methods for Containment** | Prevent further leakage or spillage if safe to do so. Use inert absorbent materials to confine spills and absorb spill. |
| **Methods for Clean-up** | Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). |
| **Other Information** | Report spills as required to the appropriate authorities. |

## 7. HANDLING AND STORAGE

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| **Handling** | Handle in accordance with good industrial hygiene and safety practice. |
| **Storage** | Keep containers tightly closed in a dry, cool and well-ventilated place. |

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines** The table below lists known exposure levels for any components of this product which are considered hazardous. Keep in mind, however, that these exposure levels are for pure concentrations of these ingredients. If no table appears below, occupational exposure limits have not been established or are not known for any of the ingredients in this product:

**Engineering Controls** Use in well-ventilated area. If user operations generate an oil mist, use process enclosures, local exhaust ventilation or other engineering controls to control airborne levels below the recommended mineral oil mist exposure limits (ACGIH TLV TWA: 5 mg/m$^3$; ACGIH TLV STEL: 10 mg/m$^3$; OSHA PEL TWA: 5 mg/m$^3$).

**Eye/face Protection** Safety glasses with side-shields.

**Skin Protection** Use protective gloves and clothing if contact with product is likely.

**Respiratory Protection** If personal exposure levels cannot be maintained below accepted exposure limits or if irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|---|---|---|---|
| **Appearance** | Dark grey, Black | **Odor** | Petroleum distillates |
| **Physical State** | Liquid | **pH** | No data available |
| **Flash Point** | 179 °C | **Autoignition Temperature** | > 260 °C |
| **Boiling Point/Range** | > 293 °C | **Melting Point/Range** | No data available |
| **Flammability Limits in Air, %** | No data available | | |
| **Specific Gravity (Water=1)** | 0.89 | **Solubility In Water** | Insoluble |
| **Vapor Density (Air=1)** | > 5 | **Volatiles, % Vol** | No data available |

## 10. STABILITY AND REACTIVITY

**Chemical Stability** Stable under recommended storage conditions.

**Conditions to Avoid** Keep away from open flames, hot surfaces and sources of ignition.

**Incompatible Materials** Strong oxidizing agents.

**Hazardous Decomposition Products** Hydrogen sulfide (H2S) may be produced above 250°F (121°C).

**Hazardous Polymerization** Hazardous polymerization does not occur.

## 11. TOXICOLOGICAL INFORMATION

Toxicity of this complete mixture has not been evaluated. If information is available on any of the individual components of the mixture, it is presented in this section. If no information appears in this section, there is no toxicological information available for any of the components of the mixture.

**Acute Toxicity** The table below indicates toxicological information for specific ingredients at concentrations indicated. If no table appears, no toxicological information was found.

**Chronic Toxicity** Reports have associated repeated and prolonged occupational overexposure to petroleum based products with liver, kidney, brain and nervous system damage. There is, however, no reported human evidence that these effects occur when exposure is maintained below OSHA and ACGIH limits.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen. If no table appears, no toxicological information was found.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

Ecotoxicity and biodegradability of this complete mixture have not been evaluated. Consequently, this material should be kept out of sewage and drainage systems and all bodies of water and should not be considered readily biodegradable. If information is available on any of the individual components of the mixture, it is presented in this section. If no information appears in this section, there is no ecotoxicity or biodegradability information available for any of the components of the mixture.

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Method** Dispose of contents/container in accordance with local regulation.

## 14. TRANSPORT INFORMATION

**DOT** Not regulated

**TDG** Not regulated

**MEX** Not regulated

**ICAO** Not regulated

**IATA** Not regulated

**IMDG/IMO** Not regulated

**RID** Not regulated

**ADR** Not regulated

**ADN** Not regulated

## 15. REGULATORY INFORMATION

**U.S. Regulations & Inventories** No regulatory requirements found. All components of this product are either listed on applicable inventories or are exempt from listing requirements.

**U.S. State Right-to-Know Regulations** No regulatory requirements found. All components of this product are either listed on applicable inventories or are exempt from listing requirements.

**Canada Regulations & Inventories** No regulatory requirements found. All components of this product are either listed on applicable inventories or are exempt from listing requirements.

This product has been classified in accordance with the hazard criteria of the Candian CPR (Controlled Products Regulations) and the MSDS contains all the information required by the CPR.

**International Regulations & Inventories** No regulatory requirements found. All components of this product are either listed on applicable inventories or are exempt from listing requirements.

## 16. OTHER INFORMATION

**Regulatory Lists Searched & Other Sources of Information**

ACGIH - American Converence of Governmental Industrial Hygienists
ADN - European Agreement for International Carriage of Dangerous Goods by Inland Waterways
ADR - European Agreement for International Carriage of Dangerous Goods by Road
AICS - Australian Inventory of Chemical Substances
ANSI - American National Standards Institute
CAP65 - California Proposition 65 Hazard List
CAS - Chemical Abstract Services
CERCLA - Comprehensive Environmental Response, Compensation & Liability Act
CHINA - China Inventory
CPR - Canadian Controlled Products Regulations
DOT - United States Department of Transportation
DSL - Canada Domestic Substances List
EINECS - European Union (EU) European Inventory of Existing Commercial Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IARC - International Agency for Research on Cancer
IATA - International Air Transport Association
ICAO - International Civil Aviation Organization
IMDG - International Maritime Dangerous Goods Code
MARTK - Massachusetts Right To Know List
NDSL - Canada Non-Domestic Substances List
NFPA - United States National Fire Protection Association
NIOSH - United States National Institute for Occupational Safety & Health
NJRTK - New Jersey Right To Know List

NTP - United States National Toxicology Program
OSHA - United States Occupational Safety & Health Administration
PARTK - Pennsylvania Right To Know List
PICCS - Philippines Inventory of Chemicals and Chemical Substances
RCRA - United States Resources Conservation & Recovery Act
RID - European Agreement for International Carriage of Dangerous Goods by Rail
RIHSL - Rhode Island Hazardous Substance List
SARA - United States Superfund Amendments & Reauthorization Act
TDG - Canada Transportation of Dangerous Goods Act
TSCA - US Toxic Substances Control Act
WHMIS - Canada Workplace Hazardous Materials Information System

**Definitions**

EC50 - Effective Concentration (Concentration of a compound where 50% of the expected effect is observed.)
LC50 - Lethal Concentration (The concentration in water that will kill 50% of the test animals within a specific period of time, usually 96 hours.)
LD50 - Lethal Dose (The single dose that will kill 50% of the test animals by any route other than inhalation such as by ingestion or skin contact.)
OEL - Occupational Exposure Limit
PEL - Permissible Exposure Limits
STEL - Short Term Exposure Limit
TLV - Threshold Limit Value
TWA - Time Weighted Average
TWAEV - Time Weighted Average Exposure Value

**Revision Date** 27-Jun-2014

**End of MSDS**