



# 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 06-Jan-2015

Revision Number 4

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** SWEPCO 164 EP Open Gear Grease  
**Product Code** W20503

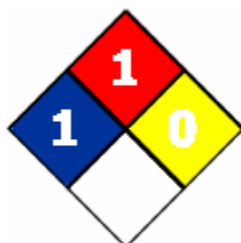
**Chemical Family** Petroleum hydrocarbon  
**Recommended Use** Lubricant

**Supplier Address** Southwestern Petroleum Corporation, 534 North Main St, Fort Worth, TX 76106 USA  
 1-800-877-9372  
 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.



<b>NFPA Health</b>	1	<b>Flammability</b>	NFPA 1	<b>Instability</b>	0
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**WHMIS** Not a WHMIS controlled product

<b>Appearance</b>	Grey	<b>Physical State</b>	Grease	<b>Odor</b>	Petroleum distillates
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**Principle Routes of Exposure** Skin contact. Eye contact.

### Acute Health Effects

**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.

<b>Eyes</b>	Contact with eyes may cause irritation.
<b>Inhalation</b>	None known.
<b>Ingestion</b>	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.
<b>Carcinogenic Effects</b>	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 WHMIS 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**

<b>Eye Contact</b>	Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.
<b>Inhalation</b>	First aid is not required.
<b>Ingestion</b>	Consult a physician or Poison Control Center immediately. Do not induce vomiting without medical advice.
<b>Notes to Physician</b>	Treat symptomatically.

**5. FIRE-FIGHTING MEASURES**

<b>Flammable Properties</b>	Combustible material: may burn but does not ignite readily.
<b>Suitable Extinguishing Media</b>	Water spray or fog, dry chemical, carbon dioxide (CO2) or foam. Cool containers with flooding quantities of water until well after fire

	is out
<b>Hazardous Combustion Products</b>	No information available.
<b>Specific Hazards Arising from the Chemical</b>	Keep product and empty container away from heat and sources of ignition.
<b>Protective Equipment and Precautions for Firefighters</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Avoid contact with skin, eyes and clothing.
<b>Methods for Containment</b>	Prevent further leakage or spillage if safe to do so.
<b>Methods for Clean-up</b>	Take up mechanically and collect in suitable container for disposal.
<b>Other Information</b>	Report spills as required to the appropriate authorities.

## 7. HANDLING AND STORAGE

<b>Handling</b>	Handle in accordance with good industrial hygiene and safety practice.
<b>Storage</b>	Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Exposure Guidelines</b>	This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
<b>Engineering Controls</b>	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 <sup>3</sup> ; ACGIH TLV STEL: 10 mg/m <sup>3</sup> ; OSHA PEL TWA: 5 mg/m <sup>3</sup> ).
<b>Eye/face Protection</b>	Safety glasses with side-shields.
<b>Skin Protection</b>	Use protective gloves and clothing if contact with product is likely.
<b>Respiratory Protection</b>	If personal exposure levels cannot be maintained below accepted exposure limits or if irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.
<b>General Hygiene Considerations</b>	When using, do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Keep away from food, drink and animal feeding stuffs.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	Grey	<b>Odor</b>	Petroleum distillates
<b>Physical State</b>	Grease	<b>pH</b>	No data available
<b>Flash Point</b>	179 °C	<b>Autoignition Temperature</b>	> 315 °C
<b>Boiling Point/Range</b>	Not applicable	<b>Melting Point/Range</b>	Not applicable
<b>Flammability Limits in Air, %</b>		<b>Lower 0.9 Upper 7.0</b>	
<b>Specific Gravity (Water=1)</b>	0.92	<b>Solubility In Water</b>	Insoluble
<b>Vapor Density (Air=1)</b>	>5	<b>Volatiles, % Vol</b>	0

**10. STABILITY AND REACTIVITY**

<b>Chemical Stability</b>	Stable under recommended storage conditions.
<b>Conditions to Avoid</b>	Keep away from open flames, hot surfaces and sources of ignition.
<b>Incompatible Materials</b>	Strong oxidizing agents.
<b>Hazardous Decomposition Products</b>	Hydrocarbons. Carbon monoxide. Hydrogen sulfide (H2S) may be produced above 250° F (121° C).
<b>Hazardous Polymerization</b>	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

<b><u>DOT</u></b>	Not regulated
<b><u>TDG</u></b>	Not regulated
<b><u>MEX</u></b>	Not regulated
<b><u>ICAO</u></b>	Not regulated
<b><u>IATA</u></b>	Not regulated
<b><u>IMDG/IMO</u></b>	Not regulated
<b><u>RID</u></b>	Not regulated
<b><u>ADR</u></b>	Not regulated
<b><u>ADN</u></b>	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 Convergence 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** 06-Jan-2015

**End of MSDS**