



# Material Safety Data Sheet

- Click on the product name to go to the Salesfax description sheet.
- Click on the grade to go to the Salesfax typical test data sheet.

## Chevron Open Gear Lubricant SP (only grade)

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CHEVRON Open Gear Lubricant SP

PRODUCT NUMBER(S): CPS253814

COMPANY IDENTIFICATION

Chevron Products Company  
 Global Lubricants  
 555 Market St.  
 Room 803  
 San Francisco, CA 94105-2870

EMERGENCY TELEPHONE NUMBERS

HEALTH (24 hr): (800)231-0623 or  
 (510)231-0623 (International)  
 TRANSPORTATION (24 hr): CHEMTREC  
 (800)424-9300 or (703)527-3887  
 Int'l collect calls accepted

PRODUCT INFORMATION: MSDS Requests: (800) 228-3500  
 Environmental, Safety, & Health Info: (415) 894-0703  
 Product Information: (800) 582-3835

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

100.0 % CHEVRON Open Gear Lubricant SP

CONTAINING

COMPONENTS	AMOUNT	LIMIT/QTY	AGENCY/TYPE
LUBRICATING BASE OIL			
SEVERELY REFINED PETROLEUM DISTILLATE	> 5.00%	5 mg/m3 (mist) 10 mg/m3 (mist) 5 mg/m3 (mist)	ACGIH TWA ACGIH STEL OSHA PEL

The BASE OIL may be a mixture of any of the following: CAS 64741884, CAS 64741895, CAS 64741964, CAS 64741975, CAS 64742014, CAS 64742525, CAS 64742536, CAS 64742547, CAS 64742627, CAS 64742650, or CAS 72623837.

VACUUM TOWER BOTTOMS

Chemical Name: RESIDUES VACUUM			
CAS64741566	< 5.00%	NONE	NA

PETROLEUM RESIN

Chemical Name: HEAVY PARAFFINIC VACUUM DISTILLATE			
CAS64742161	< 15.00%	NONE	NA

METHYLENE CHLORIDE

Chemical Name: METHANE, DICHLORO-			
CAS75092	< 35.00%	50, A2 ppm	ACGIH TWA
		Table Z-2	OSHA PEL
		Table Z-2	OSHA CEILING
		1,000 LBS	CERCLA 302.4 RQ

BUTENE, HOMOPOLYMER

Chemical Name: POLYBUTENE			
CAS9003296	< 5.00%	NONE	NA

CALCIUM COMPLEX THICKENER  
< 5.00%

PROPANE

Chemical Name: PROPANE			
CAS74986	> 11.00%	Asphyxiant	ACGIH TWA
		1800 mg/m3	OSHA PEL

ISOBUTANE

Chemical Name: PROPANE, 2-METHYL-			
CAS75285	< 13.00%	NONE	NA

OR

N-BUTANE

Chemical Name: N-BUTANE			
CAS106978		800 ppm	ACGIH TWA

ADDITIVES INCLUDING THE FOLLOWING  
> 5.00%

CARBON-BLACK

Chemical Name: CARBON-BLACK			
CAS1333864		3.5 mg/m3	ACGIH TWA
		3.5 mg/m3	OSHA PEL

GRAPHITE

Chemical Name: GRAPHITE			
CAS7782425		2 mg/m3	ACGIH TWA
		5 mg/m3	OSHA PEL

MOLYBDENUM DISULFIDE

Chemical Name: MOLYBDENUM DISULFIDE			
CAS1317335		10 mg/m3	ACGIH TWA

COMPOSITION COMMENT:

All the components of this material are on the Toxic Substances Control Act Chemical Substances Inventory.

3. HAZARDS IDENTIFICATION

\*\*\*\*\* EMERGENCY OVERVIEW \*\*\*\*\*

Black grease.

- EXTREMELY FLAMMABLE
- VAPOR HARMFUL
- CONTAINS A MATERIAL THAT CAUSES CENTRAL NERVOUS SYSTEM EFFECTS
- MAY CAUSE EYE AND SKIN IRRITATION

- CONTAINS METHYLENE CHLORIDE WHICH IS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER
- CONTENTS UNDER PRESSURE

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#### POTENTIAL HEALTH EFFECTS

##### EYE:

The eye irritation potential of this substance has not been determined. However, it may be slightly irritating to the eyes and could cause prolonged (days) impairment of your vision. The degree of the injury will depend on the amount of material that gets into the eye and the speed and thoroughness of the first aid treatment. Eye contact with the vapors, fumes, or spray mist from this substance could also cause similar signs and symptoms. This hazard evaluation is based on the known toxicity of the ingredients in this substance.

##### SKIN:

Expected to cause no more than minor skin irritation, but prolonged or frequently repeated skin contact may be harmful. This hazard evaluation is based on the known irritation potential of the ingredients in this substance. Prolonged or repeated skin contact may be harmful. Read the Toxicology Information section (11) of this document for more information. This hazard evaluation is based on the known toxicity of the ingredients in this substance.

##### INGESTION:

This material may be harmful if swallowed. Read the Toxicology Information section (11) of this document for more information. This hazard evaluation is based on the known toxicity of the ingredients in this substance.

##### INHALATION:

The inhalation toxicity of this substance has not been determined. However, it may be slightly toxic to internal organs if inhaled. The degree of injury will depend on the airborne concentration and duration of exposure. The target organ(s) is the nervous system. Read the Toxicological Information section (11) of this document for more information. This hazard evaluation is based on the known toxicity of the ingredients in this substance.

##### SIGNS AND SYMPTOMS OF EXPOSURE:

**EYE:** May include pain, tears, swelling, redness, and blurred vision.

**INHALATION:** Central nervous system effects may include one or more of following: headache, dizziness, loss of appetite, weakness and loss of coordination. **INHALATION:** Respiratory tract irritation may include, but may not be limited to, one or more of the following: nasal discharge, sore throat, coughing, bronchitis, pulmonary edema and difficulty in breathing. **SKIN:** May include pain or a feeling of heat, discoloration, swelling, and blistering.

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#### 4. FIRST AID MEASURES

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##### EYE:

Flush eyes immediately with fresh water for at least 15 minutes while holding the eyelids open. Remove contact lenses if worn. No additional first aid should be necessary. However, if irritation persists, see a doctor.

##### SKIN:

Remove contaminated clothing. Wash skin thoroughly with soap and water. See a doctor if any signs or symptoms described in this document occur. Discard contaminated non-waterproof shoes and boots. Wash contaminated clothing.

##### INGESTION:

If swallowed, give water or milk to drink and telephone for medical advice. Consult medical personnel before inducing vomiting. If medical

advice cannot be obtained, then take the person and product container to the nearest medical emergency treatment center or hospital.

**INHALATION:**

If respiratory irritation or any signs or symptoms as described in this document occur, move the person to fresh air. If any of these effects continue, see a doctor.

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**5. FIRE FIGHTING MEASURES**

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**FLAMMABLE PROPERTIES:**

FLASH POINT: (TCC) -160F (-107C)

AUTOIGNITION: NDA

FLAMMABILITY LIMITS (% by volume in air): Lower: NDA Upper: NDA

**EXTINGUISHING MEDIA:**

CO2, dry chemical, foam and water fog.

NFPA RATINGS: Health 2; Flammability 4; Reactivity 0.

**FIRE FIGHTING INSTRUCTIONS:**

This product presents an extreme fire hazard. Liquid very quickly evaporates, even at low temperatures, and forms vapor (fumes) which can catch fire and burn with explosive violence. Invisible vapor spreads easily and can be set on fire by many sources such as pilot lights, welding equipment, and electrical motors and switches.

For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

**COMBUSTION PRODUCTS:**

Normal combustion forms carbon dioxide and water vapor and may produce oxides of nitrogen, sulfur and toxic chlorine compounds. Combustion may produce toxic compounds of phosgene. Incomplete combustion can produce carbon monoxide.

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**6. ACCIDENTAL RELEASE MEASURES**

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CHEMTREC EMERGENCY NUMBER (24 hr): (800)424-9300 or (703)527-3887

International Collect Calls Accepted

**ACCIDENTAL RELEASE MEASURES:**

Clean up spills immediately, observing precautions in Exposure Controls/ Personal Protection section.

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**7. HANDLING AND STORAGE**

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READ AND OBSERVE ALL PRECAUTIONS ON PRODUCT LABEL.

DO NOT USE OR STORE near flame, sparks or hot surfaces. USE ONLY IN WELL VENTILATED AREA. Keep container closed.

DO NOT weld, heat or drill container. Replace cap or bung. Emptied container still contains hazardous material which may ignite with explosive violence if heated sufficiently.

Exposure to heat or prolonged exposure to sun may cause container to burst. Do not puncture, incinerate, or store above 120 F.

Use this product outdoors, if possible. If you must use it indoors, open all windows and doors or use other means to ensure fresh air movement during application and drying. Do not use in unventilated areas. Keep out of reach of children.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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### ENGINEERING CONTROLS

Use adequate ventilation to keep the airborne concentrations of this material below the recommended exposure standard.

### PERSONAL PROTECTIVE EQUIPMENT

#### EYE/FACE PROTECTION:

This material is under pressure. Wear chemical goggles or face shield during use.

#### SKIN PROTECTION:

Avoid contact with skin or clothing. Skin contact should be minimized by wearing protective clothing including gloves.

#### RESPIRATORY PROTECTION:

Unless ventilation is adequate to keep airborne concentrations below recommended exposure standards, approved respiratory protection should be worn.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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### PHYSICAL DESCRIPTION:

Black grease.

pH:	NDA
VAPOR PRESSURE:	NDA
VAPOR DENSITY	
(AIR=1):	NDA
BOILING POINT:	NDA
FREEZING POINT:	NDA
MELTING POINT:	NDA
SOLUBILITY:	Soluble in hydrocarbon solvents; insoluble in water.
SPECIFIC GRAVITY:	0.99 @ 15.6/15.6C
DENSITY:	1.03 g/ml @ 25C
EVAPORATION RATE:	NA
VISCOSITY:	25 - 30 @ 77F (Sec. Zahn #2 Cup)
PERCENT VOLATILE	
(VOL):	NDA

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## 10. STABILITY AND REACTIVITY

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### HAZARDOUS DECOMPOSITION PRODUCTS:

May produce toxic compounds of chlorine including phosgene.

### CHEMICAL STABILITY:

Stable.

### CONDITIONS TO AVOID:

No data available.

### INCOMPATIBILITY WITH OTHER MATERIALS:

May react with strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

### HAZARDOUS POLYMERIZATION:

Polymerization will not occur.

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## 11. TOXICOLOGICAL INFORMATION

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### EYE EFFECTS:

No product toxicology data available. The hazard evaluation was based on data on the components.

**SKIN EFFECTS:**

No product toxicology data available. The hazard evaluation was based on data on the components.

**ACUTE ORAL EFFECTS:**

No product toxicology data available. The hazard evaluation was based on data from similar materials.

**ACUTE INHALATION EFFECTS:**

No product toxicology data available. The hazard evaluation was based on data on the components.

**ADDITIONAL TOXICOLOGY INFORMATION:**

This product contains petroleum base oils which may be refined by various processes including severe solvent extraction, severe hydrocracking, or severe hydrotreating. None of the oils requires a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as; carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B).

The International Agency for Research on Cancer (IARC) has classified carbon black as a Group 2B carcinogen (possibly carcinogenic to humans) based on "sufficient evidence" in animals and "inadequate evidence" in humans. Carbon black has not been listed as a carcinogen by the National Toxicology Program or the Occupational Safety and Health Administration.

This product contains methylene chloride. The results of animal studies suggest that frequent or lengthy exposure to high concentrations of methylene chloride can cause changes in the liver and kidney. However, these effects have not been observed in studies of exposed workers and it appears unlikely that methylene chloride will cause serious liver or kidney damage in humans exposed to levels below occupational exposure levels.

Methylene chloride produced positive results in several in vitro mutagen assays. The National Toxicology Program (NTP) has concluded that methylene chloride causes lung and liver tumors in mice. Evidence for carcinogenic effects in rats is inconclusive, though tumors have been reported in mammary glands, liver, and salivary glands of exposed animals. No definitive birth defects have been observed in the offspring of pregnant rats and mice exposed to methylene chloride. There is no evidence that exposure to methylene chloride has caused cancer or reproductive damage in humans.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:**

Exposure to methylene chloride results in the formation of carbon monoxide in the blood which leads to elevated carboxyhemoglobin levels. People with coronary heart disease may have increased chest pains (angina) if carbon monoxide levels in the blood are raised following exposure to methylene chloride. Avoid adrenalin and similar drugs, since exposure to methylene chloride can increase myocardial irritability.

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**12. ECOLOGICAL INFORMATION**

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**ECOTOXICITY:**

No data available.

**ENVIRONMENTAL FATE:**

This material is not expected to present an environmental problem.

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 13. DISPOSAL CONSIDERATIONS
 

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Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations. Contact local environmental or health authorities for approved disposal of this material.

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 14. TRANSPORT INFORMATION
 

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The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

DOT SHIPPING NAME: COMPRESSED GASES, FLAMMABLE  
 DOT HAZARD CLASS: 2.1 (FLAMMABLE GAS)  
 DOT IDENTIFICATION NUMBER: UN1954  
 DOT PACKING GROUP: N/A

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 15. REGULATORY INFORMATION
 

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SARA 311 CATEGORIES:

1. Immediate (Acute) Health Effects:	YES
2. Delayed (Chronic) Health Effects:	YES
3. Fire Hazard:	YES
4. Sudden Release of Pressure Hazard:	YES
5. Reactivity Hazard:	NO

## REGULATORY LISTS SEARCHED:

01=SARA 313	11=NJ RTK	22=TSCA Sect 5(a)(2)
02=MASS RTK	12=CERCLA 302.4	23=TSCA Sect 6
03=NTP Carcinogen	13=MN RTK	24=TSCA Sect 12(b)
04=CA Prop 65-Carcin	14=ACGIH TWA	25=TSCA Sect 8(a)
05=CA Prop 65-Repro Tox	15=ACGIH STEL	26=TSCA Sect 8(d)
06=IARC Group 1	16=ACGIH Calc TLV	27=TSCA Sect 4(a)
07=IARC Group 2A	17=OSHA PEL	28=Canadian WHMIS
08=IARC Group 2B	18=DOT Marine Pollutant	29=OSHA CEILING
09=SARA 302/304	19=Chevron TWA	30=Chevron STEL
10=PA RTK	20=EPA Carcinogen	

The following components of this material are found on the regulatory lists indicated.

## N-BUTANE

is found on lists: 02,10,11,13,14,28,

## MOLYBDENUM DISULFIDE

is found on lists: 02,11,14,

## CARBON-BLACK

is found on lists: 02,08,10,11,13,14,17,28,

## PROPANE

is found on lists: 02,10,11,13,14,17,

## METHANE, DICHLORO-

is found on lists: 01,02,03,04,08,10,11,12,13,14,17,20,28,29,

## PROPANE, 2-METHYL-

is found on lists: 02,10,11,

## GRAPHITE

is found on lists: 02,10,11,13,14,17,

SEVERELY REFINED PETROLEUM DISTILLATE  
is found on lists: 14,15,17,

NEW JERSEY RTK CLASSIFICATION:

Under the New Jersey Right-to-Know Act L. 1983 Chapter 315 N.J.S.A. 34:5A-1 et. seq., the product is to be identified as follows:  
Petroleum Oil (Grease)

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16. OTHER INFORMATION

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NFPA RATINGS: Health 2; Flammability 4; Reactivity 0;  
(0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:- Personal Protection Equipment Index recommendation, \*- Chronic Effect Indicator). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

REVISION STATEMENT:

This revision updates Section 2 (Composition), Section 5 (Fire Fighting Measures) and Section 11 (Toxicological Information).

ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

TLV - Threshold Limit Value                      TWA - Time Weighted Average  
STEL - Short-term Exposure Limit                TPQ - Threshold Planning Quantity  
RQ - Reportable Quantity                        PEL - Permissible Exposure Limit  
C - Ceiling Limit                                CAS - Chemical Abstract Service Number  
A1-5 - Appendix A Categories                    () - Change Has Been Proposed  
NDA - No Data Available                        NA - Not Applicable

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Prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200) and the ANSI MSDS Standard (Z400.1) by the Toxicology and Health Risk Assessment Unit, CRTC, P.O. Box 4054, Richmond, CA 94804

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The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modification of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

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