

# Material Safety Data Sheet



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## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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**CHEVRON DELO 400 EGR**

PRODUCT NUMBER(S) : CPS235046

### COMPANY IDENTIFICATION

Chevron Products Company  
a division of Chevron U.S.A. Inc.  
6001 Bollinger Canyon Road  
San Ramon, CA 94583  
United States of America  
www.chevronlubricants.com

### 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  
Emergency Information Centers  
are located in U.S.A.  
Int'l collect calls accepted

PRODUCT INFORMATION: MSDS Requests: (800) 414-MSDS or (800) 414-6737  
Environmental, Safety, & Health Info: (415) 894-0703  
Product Information: (800) 582-3835

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## 2. COMPOSITION/INFORMATION ON INGREDIENTS

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100.0 % CHEVRON DELO 400 EGR

### CONTAINING

COMPONENTS	AMOUNT	LIMIT/QTY	AGENCY/TYPE
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HYDROTREATED DIST., HVY PARA			
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Chemical Name: DISTILLATES, HYDROTREATED HEAVY PARAFFINIC

CAS64742547	> 75.00%	5 mg/m3 (mist)	ACGIH TWA
		10 mg/m3 (mist)	ACGIH STEL
		5 mg/m3 (mist)	OSHA PEL

ADDITIVES INCLUDING THE FOLLOWING

< 25.00%

ZINC ALKYL DITHIOPHOSPHATE

Chemical Name: PHOSPHORODITHIOIC ACID, O,O-DI-C1-14-ALKYL ESTERS, ZINC SALT

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CAS68649423

< 1.60%

NONE

NA

**COMPOSITION COMMENT:**

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

This product fits the ACGIH definition for mineral oil mist. The ACGIH TLV is 5 mg/m<sup>3</sup>, the OSHA PEL is 5 mg/m<sup>3</sup>.

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**3. HAZARDS IDENTIFICATION**

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**POTENTIAL HEALTH EFFECTS**

**EYE:**

Not expected to cause prolonged or significant eye irritation.

**SKIN:**

Contact with the skin is not expected to cause prolonged or significant irritation. Not expected to be harmful to internal organs if absorbed through the skin.

**INGESTION:**

Not expected to be harmful if swallowed.

**INHALATION:**

Contains a petroleum-based mineral oil. 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 limit.

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**4. FIRST AID MEASURES**

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**EYE:**

No specific first aid measures are required because this material is not expected to cause eye irritation. As a precaution remove contact lenses, if worn, and flush eyes with water.

**SKIN:**

No specific first aid measures are required because this material is not expected to be harmful if it contacts the skin. As a precaution, remove

clothing and shoes if contaminated. Use a waterless hand cleaner, mineral oil, or petroleum jelly to remove the material. Then wash skin with soap and water. Wash or clean contaminated clothing and shoes before reuse.

**INGESTION:**

No specific first aid measures are required because this material is not expected to be harmful if swallowed. Do not induce vomiting. As a precaution, give the person a glass of water or milk to drink and get medical advice. Never give anything by mouth to an unconscious person.

**INHALATION:**

If exposed to excessive levels of material in the air, move the exposed person to fresh air. Get medical attention if coughing or respiratory discomfort occurs.

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**5. FIRE FIGHTING MEASURES**

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**FIRE CLASSIFICATION:**

Classification (29 CFR 1910.1200): Not classified by OSHA as flammable or combustible.

**FLAMMABLE PROPERTIES:**

FLASH POINT: (COC) 399F (204C) Min.

AUTOIGNITION: NDA

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

**EXTINGUISHING MEDIA:**

CO2, Dry Chemical, Foam, Water Fog

**NFPA RATINGS: Health 1; Flammability 1; Reactivity 0.**

**FIRE FIGHTING INSTRUCTIONS:**

This material will burn although it is not easily ignited.

**COMBUSTION PRODUCTS:**

Normal combustion forms carbon dioxide and water vapor and may produce oxides of sulfur, nitrogen, phosphorus, and boron. 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:**

Stop the source of the leak or release. Clean up releases as soon as possible. Contain liquid to prevent further contamination of soil, surface water or groundwater. Clean up small spills using appropriate techniques such as sorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Follow prescribed procedures for reporting and responding to larger releases.

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**7. HANDLING AND STORAGE**

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Drum is not designed to contain pressure. Do not use pressure to empty drum or drum may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty drums should be completely drained, properly bunged, and promptly returned to a drum reconditioner, or properly disposed of. Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

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#### **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**GENERAL CONSIDERATIONS:**

Consider the potential hazards of this material (see Section 3), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

**ENGINEERING CONTROLS**

Use in a 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.

**PERSONAL PROTECTIVE EQUIPMENT**

**EYE/FACE PROTECTION:**

No special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields as a good safety practice.

**SKIN PROTECTION:**

No special protective clothing is normally required. Where splashing is possible, select protective clothing depending on operations conducted, physical requirements and other substances. Suggested materials for protective gloves include: <Viton> <Nitrile> <Silver Shield> <4H>

**RESPIRATORY PROTECTION:**

No respiratory protection is normally required. If user operations generate an oil mist, determine if airborne concentrations are below the recommended mineral oil mist exposure limits. If not wear a NIOSH approved respirator that provides adequate protection from measured concentrations of this material. Use the following elements for air-purifying respirators: particulate.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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PHYSICAL DESCRIPTION:

Dark brown liquid.

pH: NDA

VAPOR PRESSURE: NA

VAPOR DENSITY

(AIR=1): NA  
BOILING POINT: NDA  
FREEZING POINT: NDA  
MELTING POINT: NA  
SOLUBILITY: Soluble in hydrocarbon solvents; insoluble in water.  
SPECIFIC GRAVITY: 0.88 @ 15.6/15.6C  
VOLATILE ORGANIC  
COMPOUNDS (VOC): 1.1 wt.%, 9.256 g/l (Estimate)  
EVAPORATION RATE: NA  
VISCOSITY: 14.6 cSt @ 100C (Min.)  
PERCENT VOLATILE  
(VOL): NA

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**10. STABILITY AND REACTIVITY**

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**HAZARDOUS DECOMPOSITION PRODUCTS:**

H<sub>2</sub>S may be released at high temperatures.

**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:**

The eye irritation hazard is based on data for a similar material.

**SKIN EFFECTS:**

The skin irritation hazard is based on data for a similar material.

**ACUTE ORAL EFFECTS:**

The acute oral toxicity is based on data for a similar material.

**ACUTE INHALATION EFFECTS:**

The acute respiratory toxicity is based on data for a similar material.

**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).

This product contains zinc alkyl dithiophosphates (ZDDPs). Several ZDDPs have been reported to have weak mutagenic activity in cultured mammalian cells but only at concentrations that were toxic to the test cells. We do not believe that there is any mutagenic risk to workers exposed to ZDDPs.

During use in engines, contamination of oil with low levels of cancer-causing combustion products occurs. Used motor oils have been shown to cause skin cancer in mice following repeated application and continuous exposure. Brief or intermittent skin contact with used motor oil is not expected to have serious effects in humans if the oil is thoroughly removed by washing with soap and water. See Chevron Material Safety Data Sheet No. 1793 for additional information on used motor oil.

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**12. ECOLOGICAL INFORMATION**

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**ECOTOXICITY:**

No data available.

**ENVIRONMENTAL FATE:**

This material is not expected to be readily biodegradable.

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**13. DISPOSAL CONSIDERATIONS**

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Oil collection services and collection centers are available for used motor oil recycling or disposal. Some service stations, automotive service centers, and retailers provide motor oil collection facilities.

Place contaminated materials in containers and dispose of in a manner consistent with applicable regulations. Contact your sales representative or local environmental or health authorities for approved disposal or recycling methods.

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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: NONE

DOT HAZARD CLASS: NONE

DOT IDENTIFICATION NUMBER: NONE

DOT PACKING GROUP: N/A

ADDITIONAL INFO: Petroleum Lubricating Oil - Not Hazardous by U.S. DOT.  
ADR/RID Hazard class - Not applicable.

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**15. REGULATORY INFORMATION**

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SARA 311 CATEGORIES:

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

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|-------------------------|-------------------------|-------------------|
| 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.

DISTILLATES, HYDROTREATED HEAVY PARAFFINIC

is found on lists: 14,15,17,

PHOSPHORODITHIOIC ACID,O,O-DI-C1-14-ALKYL ESTERS, ZINC SALTS

is found on lists: 01,11,

**EU RISK AND SAFETY LABEL PHRASES:**

May cause long-term adverse effects in the aquatic environment.

**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

**WHMIS CLASSIFICATION:**

This product is not considered a controlled product according to the criteria of the Canadian Controlled Products Regulations.

**16. OTHER INFORMATION**

**NFPA RATINGS: Health 1; Flammability 1; Reactivity 0;**

**HMIS RATINGS: Health 1; Flammability 1; 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 is a new Material Safety Data Sheet.

**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 1627, 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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