

Che 703



# Material Safety Data Sheet

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### CHEVRON Soluble Oil

PRODUCT NUMBER(S): CPS230308 CPS233703 CPS255752 CPS255754  
 SYNONYM: CHEVRON Soluble Oil B  
 CHEVRON Soluble Oil NB  
 CHEVRON Soluble Oil T1  
 CHEVRON Soluble Oil T2

### COMPANY IDENTIFICATION

Chevron Products Company  
 Lubricants and Specialty Products  
 6001 Bollinger Canyon Rd., T3325/B10  
 San Ramon, CA 94583  
 www.chevron-lubricants.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 Request: (800)414-6737 email: lubemsds@chevron.com  
 Environmental, Safety, & Health Info: (925) 842-5535  
 Product Information: (800) 582-3835

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

100.0 % CHEVRON Soluble Oil

### CONTAINING

COMPONENTS	AMOUNT	LIMIT/QTY	AGENCY/TYPE
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LUBRICATING BASE OIL CONTAINING ONE OR MORE OF THE FOLLOWING  
 > 70.00%

HYDROTREATED DIST., HVY NAPHTH			
Chemical Name: DISTILLATES, HYDROTREATED HEAVY NAPHTHENIC			
CAS64742525		5 mg/m3 (mist)	ACGIH TWA
		10 mg/m3 (mist)	ACGIH STEL

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5 mg/m3 (mist) OSHA PEL

HYDROTREATED DIST., LT NAPHTH

Chemical Name: DISTILLATES, HYDROTREATED LIGHT NAPHTHENIC  
CAS64742536

5 mg/m3 (mist) ACGIH TWA  
10 mg/m3 (mist) ACGIH STEL  
• 5 mg/m3 (mist) OSHA PEL

ADDITIVES INCLUDING THE FOLLOWING  
< 30.00%

2-BUTOXYETHANOL

Chemical Name: ETHANOL, 2-BUTOXY  
CAS111762 < 2.50%

25 ppm ACGIH TWA  
240 mg/m3 OSHA PEL

2-METHYL-2,4-PENTANEDIOL

Chemical Name: 2-METHYL-2,4-PENTANEDIOL  
CAS107415

25 ppm ACGIH TWA  
125 mg/m3 OSHA CEILING

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/m3, the OSHA PEL is 5 mg/m3.

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3. HAZARDS IDENTIFICATION

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

Dark liquid.

- CAUSES SKIN IRRITATION
- OIL MIST MAY CAUSE RESPIRATORY IRRITATION
- WATER EMULSIONS OF METALWORKING FLUIDS MAY BECOME CONTAMINATED WITH HARMFUL MICROORGANISMS

\*\*\*\*\*

IMMEDIATE HEALTH EFFECTS

EYE:

Not expected to cause prolonged or significant eye irritation.

SKIN:

Contact with the skin causes irritation. Not expected to be harmful to internal organs if absorbed through the skin.

INGESTION:

Not expected to be harmful if swallowed. See Section 11 for additional information.

INHALATION:

Contains a petroleum-based mineral oil. May cause respiratory irritation

5 mg/m3 (mist) OSHA PEL

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EYE:

Not expected to cause prolonged or significant eye irritation.

SKIN:

Contact with the skin causes irritation. Not expected to be harmful to internal organs if absorbed through the skin.

INGESTION:

Not expected to be harmful if swallowed. See Section 11 for additional information.

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. See Section 11 for additional information.

**SIGNS AND SYMPTOMS OF EXPOSURE:**

Skin irritation: may include pain, reddening, swelling, and blistering.

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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:**

Wash skin immediately with soap and water and remove contaminated clothing and shoes. Get medical attention if irritation persists. Discard contaminated clothing and shoes or thoroughly clean 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) 320F (160C)

AUTOIGNITION: NDA

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

**EXTINGUISHING MEDIA:**

CO<sub>2</sub>, 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. 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, water vapor and may produce oxides of sulfur and nitrogen. Combustion may form oxides of sodium. 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, observing precautions in Exposure Controls/Personal Protection. 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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Emulsions of soluble metalworking fluids and water may become contaminated with harmful microorganisms such as bacteria and fungus which can cause illness and infection. This can occur even in emulsions with fluids which initially contain some biocide because the biocide can be depleted during service. A metalworking fluid maintenance program should be followed in order to control this hazard. Such a program may require the use of biocides. For information, contact Chevron at 1-800-LUBE-TEK or [lubetek@chevron.com](mailto:lubetek@chevron.com).

Container is not designed to contain pressure. Do not use pressure to empty container or it 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 containers should be completely drained, properly closed, 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. Do not breathe oil mist at concentrations above the recommended mineral oil mist exposure limit. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling.

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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

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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:**

Wear impervious protective clothing to prevent skin contact. Selection of protective clothing may include gloves, apron, boots, and complete facial protection and will depend on operations conducted. Users should determine acceptable performance characteristics of protective clothing. Consider physical requirements and other substances present when selecting protective clothing. Suggested materials for protective gloves include: <Viton> <Nitrile> <Chlorinated Polyethylene (or Chlorosulfonated Polyethylene or CPE)> <Silver Shield>

**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 liquid.

pH:	NA
VAPOR PRESSURE:	NDA
VAPOR DENSITY (AIR=1):	Heavier than air.
BOILING POINT:	>212F (>100C)
FREEZING POINT:	NA
MELTING POINT:	NA
SOLUBILITY:	Forms a stable emulsion with water.
SPECIFIC GRAVITY:	0.93 @ 15.6/15.6C
VOLATILE ORGANIC COMPOUNDS (VOC):	10.5 wt. %, 97.65 g/l (estimated)
VISCOSITY:	38.0 cSt @ 40C (Typ.)

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**10. STABILITY AND REACTIVITY**

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**HAZARDOUS DECOMPOSITION PRODUCTS:**

None known.

**CHEMICAL STABILITY:**

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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 mean 24-hour Draize eye irritation score in rabbits is 8/110.

**SKIN EFFECTS:**

For a 4-hour exposure, the Primary Irritation Index (PII) in rabbits is: 4.2/8.0 (undiluted). The acute dermal LD50 in rats is >2.0 g/kg. This material did not cause sensitization reactions in a Modified Buehler guinea pig test.

**ACUTE ORAL EFFECTS:**

The acute oral LD50 in rats is >5.0 g/kg.

**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 2-methyl, 2,4-pentanediol which may produce local irritation on contact and central nervous system depression following systemic absorption.

This product contains 2-butoxyethanol which caused the following effects in laboratory animals: anemia, kidney damage, lung damage and blood abnormalities. Humans appear to be less sensitive to the toxic effects. 2-butoxyethanol was toxic to the embryo and fetus of pregnant rats and rabbits exposed by inhalation.

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**12. ECOLOGICAL INFORMATION**

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**ECOTOXICITY:**

The toxicity of this material to aquatic organisms has not been evaluated. Consequently, this material should be kept out of sewage and drainage systems and all bodies of water.

**ENVIRONMENTAL FATE:**

This material is not expected to be readily biodegradable.

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Stable.

**CONDITIONS TO AVOID:**

No data available.

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

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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: 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:	YES
	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)
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.

2-METHYL-2,4-PENTANEDIOL

is found on lists: 02,10,11,13,14,28,29,  
ETHANOL, 2-BUTOXY

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is found on lists: 02,10,11,13,14,17,26,28,  
DISTILLATES, HYDROTREATED HEAVY NAPHTHENIC  
is found on lists: 14,15,17,  
DISTILLATES, HYDROTREATED LIGHT NAPHTHENIC  
is found on lists: 02,14,15,17,

**EU RISK AND SAFETY LABEL PHRASES:**

R38: Irritating to skin.  
R53: May cause long-term adverse effects in the aquatic environment.  
S 36/37: Wear suitable protective clothing and gloves.

**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:**

Class D, Division 2, Subdivision B: Toxic Material  
-Skin or Eye Irritation

**16. OTHER INFORMATION**

**NFPA RATINGS:** Health 1; Flammability 1; Reactivity 0;  
**HMIS RATINGS:** Health 2; 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 revision updates Section 3 (Hazards Identification), Section 7  
(Handling and Storage), and Section 9 (Physical and Chemical  
Properties).

**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

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

\*\*\*\*\*

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  
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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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THIS IS THE LAST PAGE OF THIS MSDS  
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