



# Material Safety Data Sheet

## Chevron Antifreeze

MSDS: 7425 Revision #: 2 Revision Date: 11/17/99

[Click here to search the product data sheet database.](#)

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### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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CHEVRON Antifreeze (EHL)

PRODUCT NUMBER(S): CPS698420

#### COMPANY IDENTIFICATION

CHEVRON PRODUCTS COMPANY  
First Floor, 43/45 The Promenade  
Cheltenham  
Gloucestershire, GL50 1LE  
United Kingdom  
TELEPHONE: +44 (0) 1242 266700

#### 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: CONTACT YOUR LOCAL SALES REPRESENTATIVE FOR TECHNICAL  
INFORMATION OR ADDITIONAL MSDS REQUESTS.

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### 2. COMPOSITION/INFORMATION ON INGREDIENTS

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100.0 % CHEVRON Antifreeze (EHL)

#### CONTAINING

COMPONENTS	AMOUNT	LIMIT/QTY	AGENCY/TYPE
ETHYLENE GLYCOL			
Chemical Name: ETHYLENE GLYCOL			
CAS107211	> 90.00%	C 50 ppm 125 mg/m3 5,000 LBS	ACGIH TWA OSHA CEILING CERCLA 302.4 RQ

#### COMPOSITION COMMENT:

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

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### 3. HAZARDS IDENTIFICATION

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

Colorless (when not dyed).

- HARMFUL OR FATAL IF SWALLOWED
- MAY CAUSE RESPIRATORY TRACT IRRITATION IF INHALED
- POSSIBLE BIRTH DEFECT HAZARD - MAY CAUSE BIRTH DEFECTS  
BASED ON ANIMAL DATA

## \*\*\*\*\*

## IMMEDIATE 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:

Toxic; may be harmful or fatal if swallowed. See Section 11 for additional information.

## INHALATION:

The vapor or fumes from this material may cause respiratory irritation. Breathing this material at concentrations above the recommended exposure limit may cause central nervous system effects.

## SIGNS AND SYMPTOMS OF EXPOSURE:

INGESTION: May result in nausea, vomiting, diarrhea, and in severe cases, collapse, shock and death. Central nervous system effects may include headache, dizziness, nausea, vomiting, weakness, loss of coordination, blurred vision, drowsiness, confusion, or disorientation. At extreme exposures, central nervous system effects may include respiratory depression, tremors or convulsions, loss of consciousness, coma or death. Respiratory irritation: may include coughing and difficulty breathing.

## REPRODUCTION AND BIRTH DEFECTS:

Contains material that may cause birth defects, if swallowed, based on animal data. Risk depends on duration and level of exposure. See Section 11 for additional information.

## TARGET ORGANS:

Contains material that may cause damage to the following organ(s) following repeated ingestion: >Kidney< >Liver< Risk depends on duration and level of exposure. See Section 11 for additional information.

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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. Wash skin with soap and water. Wash or clean contaminated clothing and shoes before reuse.

## INGESTION:

If swallowed, do not induce vomiting. Give the person a glass of water or milk to drink and get immediate medical attention. Never give anything by mouth to an unconscious person.

## INHALATION:

Move the exposed person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical

attention if breathing difficulties continue.

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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: 257F (125C)

AUTOIGNITION: NDA

FLAMMABILITY LIMITS (% by volume in air): Lower: 3.2 Upper: 15.3

### EXTINGUISHING MEDIA:

CO2, Dry Chemical, Foam and Water Fog.

NFPA RATINGS: Health 2; 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 and water vapor; 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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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. Wash thoroughly after handling. Do not taste or swallow. Do not breathe vapor or fumes.

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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 process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below the recommended 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: <Natural Rubber> <Nitrile> <Polyvinyl Chloride (Also referred to as "Vinyl" or "PVC")>

##### RESPIRATORY PROTECTION:

Determine if airborne concentrations are below the recommended exposure limits. If not, wear a NIOSH approved respirator that provides adequate protection from measured concentrations of this material. Use the following respirators: Organic vapor plus dust mask filter. Use a positive pressure, air-supplying respirator if there is potential for uncontrolled release, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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#### PHYSICAL DESCRIPTION:

Colorless (when not dyed).

pH:	NDA
VAPOR PRESSURE:	NA
VAPOR DENSITY	
(AIR=1):	NA
BOILING POINT:	>165C
FREEZING POINT:	NDA
MELTING POINT:	NA
SOLUBILITY:	Soluble in water.
SPECIFIC GRAVITY:	NDA
DENSITY:	NDA
VISCOSITY:	21 @ 20C cPs

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## 10. STABILITY AND REACTIVITY

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#### HAZARDOUS DECOMPOSITION PRODUCTS:

No data available.

#### CHEMICAL STABILITY:

Stable.

#### CONDITIONS TO AVOID:

No data available.

#### INCOMPATIBILITY WITH OTHER MATERIALS:

No data available.

#### 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 an evaluation of the data for the components.

### SKIN EFFECTS:

The skin irritation hazard is based on an evaluation of the data for the components.

### ACUTE ORAL EFFECTS:

The acute oral toxicity is based on an evaluation of the data for the components.

### ACUTE INHALATION EFFECTS:

The acute respiratory toxicity is based on an evaluation of the data for the components.

### ADDITIONAL TOXICOLOGY INFORMATION:

This product contains ethylene glycol (EG). The toxicity of EG via inhalation or skin contact is expected to be slight at room temperature. The estimated oral lethal dose is about 100 cc (3.3 oz.) for an adult human. Ethylene glycol is oxidized to oxalic acid which results in the deposition of calcium oxalate crystals mainly in the brain and kidneys. Early signs and symptoms of EG poisoning may resemble those of alcohol intoxication. Later, the victim may experience nausea, vomiting, weakness, abdominal and muscle pain, difficulty in breathing and decreased urine output. When EG was heated above the boiling point of water, vapors formed which reportedly caused unconsciousness, increased lymphocyte count, and a rapid, jerky movement of the eyes in persons chronically exposed. When EG was administered orally to pregnant rats and mice, there was an increase in fetal deaths and birth defects. Some of these effects occurred at doses that had no toxic effects on the mothers. We are not aware of any reports that EG causes reproductive toxicity in human beings.

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## 12. ECOLOGICAL INFORMATION

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### ECOTOXICITY:

No data available.

### ENVIRONMENTAL FATE:

This material is expected to be readily biodegradable.

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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: ETHYLENE GLYCOL - - 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:	YES
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.

### ETHYLENE GLYCOL

is found on lists: 01,02,10,11,12,13,14,28,29,

### EU RISK AND SAFETY LABEL PHRASES:

R22: Harmful if swallowed.  
R20: Harmful by inhalation.  
R61: May cause harm to the unborn child.  
S53: Avoid exposure - obtain special instructions before use.  
S20: When using do not eat or drink.  
S46: If swallowed, seek medical advice immediately and show this container or label.  
S2: Keep out of reach of children.

### WHMIS CLASSIFICATION:

Class D, Division 1, Subdivision B: Toxic Material  
-Acute Lethality  
Class D, Division 2, Subdivision A: Very Toxic Material  
-Teratogenicity and Embryotoxicity

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## 16. OTHER INFORMATION

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NFPA RATINGS: Health 2; 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 updated Sections 3, and 15.

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

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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 responsibil-  
ity 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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