Material Safety Data Sheet

AC DELCO DEXRON-VI

Infosafe™ No. 1EVFM **Issue Date** September 2005 **Status** ISSUED by PETROCAN BS: 1.9.11

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

Product Name AC DELCO DEXRON-VI

Product Code ACDDEX6

Product Use Automatic transmission fluid for use in General Motors vehicles requiring DEXRON®VI or DEXRON®III type fluid.

Company Name PETRO-CANADA

Address P.O. Box 2844 Calgary
Alberta T2P 3E3

Emergency Tel. 403-296-3000

Other Names

Name	Product Code
Part#: 88861004 (1L), 88861037 (1 US Quart), 88861043 (4L), 88861044 (205L)	

Additional Information
In case of Emergency:
Petro-Canada: 403-296-3000
Canutec Transportation:
613-996-6666
Poison Control Centre:
Consult local telephone directory for emergency number(s).

2. COMPOSITION/INFORMATION ON INGREDIENTS

Information on Composition

Name	CAS #	%(W/W)
Mixture of severely hydrotreated and hydrocracked base oil - oil (petroleum).	The base oil may be a mixture of the following CAS#s: 8042-47-5, 64742-46-7, 64742-52-5, 64742-54-7, 72623-84-8, 72623-85-9, 72623-86-0, 72623-87-1, 178603-64-0,	

			178603-65-1, 178603-66-2, 445411-73-4
	Other proprietary, non-hazardous additives.	Mixture	-

Other Information Manufacturer Recommendation: Not applicable

3. HAZARDS IDENTIFICATION

Route(s) of Entry Skin contact, eye contact, inhalation and ingestion.

Reproductive Toxicity This product is not known to contain any components at >= 0.1% that have been shown to cause reproductive toxicity. Therefore, based upon the available data and the known hazards of the components, this product is not expected to be a reproductive toxin.

Mutagenicity This product is not known to contain any components at >= 0.1% that have been shown to cause mutagenicity. Therefore, based upon the available data and the known hazards of the components, this product is not expected to be a mutagen.

Carcinogenicity Carcinogenicity (ACGIH): This product is not known to contain any chemicals at reportable quantities that are listed as Group A1 or A2 carcinogens by ACGIH.

Carcinogenicity (IARC): This product is not known to contain any chemicals at reportable quantities that are listed as Group 1, 2A, or 2B carcinogens by IARC.

Carcinogenicity (NTP): This product is not known to contain any chemicals at reportable quantities that are listed as carcinogens by NTP.

Carcinogenicity (IRIS): This product is not known to contain any chemicals at reportable quantities that are listed as carcinogens by IRIS.

Carcinogenicity (OSHA): This product is not known to contain any chemicals at reportable quantities that are listed as carcinogens by OSHA.

Health Hazard The preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments. Prolonged or repeated contact may cause skin irritation, defatting, drying and dermatitis. Not expected to cause more than slight skin or eye irritation. With its relatively low vapour pressure, this product is not expected be inhaled in any appreciable quantity at ambient conditions. If heated to high temperatures or subjected to mechanical actions which produce vapours or mists, inhalation may cause respiratory tract irritation. Ingestion may produce a laxative effect. For more information refer to Section 11 (TOXICOLOGICAL INFORMATION) of this MSDS.

4. FIRST AID MEASURES

Inhalation Evacuate the victim to a safe area as soon as possible. If the victim is not breathing, perform artificial respiration. Allow the victim to rest in a well ventilated area. Seek medical attention.

Ingestion DO NOT induce vomiting because of danger of aspirating liquid into lungs. Seek medical attention.

Skin	Remove contaminated clothing - launder before reuse. Wash gently and thoroughly the contaminated skin with running water and non-abrasive soap. Seek medical attention.
Eye	IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek medical attention.
Advice to Doctor	Not available

5. FIRE FIGHTING MEASURES

Specific Methods	NAERG2004, GUIDE 171, Substances (low to moderate hazard). If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (0.5 mile) in all directions; also, consider initial evacuation for 800 meters (0.5 mile) in all directions. Shut off fuel to fire if it is possible to do so without hazard. If this is impossible, withdraw from area and let fire burn out under controlled conditions. Withdraw immediately in case of rising sound from venting safety device or any discolouration of tank due to fire. Cool containing vessels with water spray in order to prevent pressure build-up, autoignition or explosion.
Specific Hazards	Fire Hazards in Presence of Various Substances: Low fire hazard. This material must be heated before ignition will occur. Explosion Hazards in Presence of Various Substances: Do not cut, weld, heat, drill or pressurize empty container. Containers may explode in heat of fire.
Hazardous Combustion Products	Carbon oxides (CO, CO2), nitrogen oxides (NOx), smoke and irritating vapours as products of incomplete combustion.
Extinguishing Media - Small Fires	Use DRY chemicals, foam, water spray or CO2.
Extinguishing Media - Large Fires	Use water spray, fog or foam. For small outdoor fires, portable fire extinguishers may be used, and self contained breathing apparatus (SCBA) may not be required. For all indoor fires and any significant outdoor fires, SCBA is required. Respiratory and eye protection are required for fire fighting personnel.
Flash Point	OPEN CUP: >=180°C (356°F) (Cleveland)
Ignition Temperature	Fire Point: >190°C (374°F)
Flammable Limits UEL	Not available
Flammable Limits LEL	Not available
Flammability	May be combustible at high temperature.

6. ACCIDENTAL RELEASE MEASURES

Spills & Disposal	Consult current National Emergency Response Guide Book (NAERG) for appropriate spill measures if necessary. Extinguish all ignition sources. Stop leak if safe to do so. Dike spilled material. Use appropriate inert absorbent material to absorb spilled product. Collect

used absorbent for later disposal. Avoid contact with spilled material. Avoid contaminating sewers, streams, rivers and other water courses with spilled material. Notify appropriate authorities immediately.

7. HANDLING AND STORAGE

Corrosiveness Copper corrosion, 3h @ 149°C: 1b

Handling Avoid contact with any sources of ignition, flames, heat, and sparks. Avoid skin contact. Avoid eye contact. Avoid inhalation of product vapours or mists. Empty containers may contain product residue. Do not pressurize, cut, heat, or weld empty containers. Do not reuse containers without commercial cleaning and/or reconditioning. Personnel who handle this material should practice good personal hygiene during and after handling to help prevent accidental ingestion of this product. Properly dispose of contaminated leather articles including shoes that cannot be decontaminated.

Storage Store in dry, cool, well-ventilated area. Keep container tightly closed. Store away from incompatible and reactive materials (See section 5 FIRE FIGHTING MEASURES and 10 STABILITY AND REACTIVITY).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards

Exposure Limits (ACGIH)

Name	TLV-TWA(8 h)	STEL	CEILING
Mixture of severely hydrotreated and hydrocracked base oil (petroleum).	5 mg/m³ (oil mist)	10 mg/m³ (oil mist)	Not established
Other proprietary, non-hazardous additives.	Not applicable	Not applicable	Not applicable

Other Exposure Information Consult local, state, provincial or territory authorities for acceptable exposure limits.

Respiratory Protection Where concentrations in air may exceed the occupational exposure limits given in Section 2 (COMPOSITION, INFORMATION ON INGREDIENTS) (and those applicable to your area) and where engineering, work practices or other means of exposure reduction are not adequate, NIOSH approved respirators may be necessary to prevent overexposure by inhalation.

Eye Protection Eye protection (i.e., safety glasses, safety goggles and/or face shield) should be determined based on conditions of use. If product is used in an application where splashing may occur, the use of safety goggles and/or a face shield should be considered.

Hand Protection Wear appropriate chemically protective gloves. When handling hot product ensure gloves are heat resistant and insulated.

Personal Protective Equipment The selection of personal protective equipment varies, depending upon conditions of use.

Footwear Wear appropriate footwear to prevent product from coming in contact with feet and skin.

Body Protection Wear appropriate clothing to prevent skin contact. As a minimum long sleeves and trousers should be worn.

Eng. Controls For normal application, special ventilation is not necessary. If user's operations generate vapours or mist, use ventilation to keep exposure

to airborne contaminants below the exposure limit. Make-up air should always be supplied to balance air removed by exhaust ventilation. Ensure that eyewash station and safety shower are close to work-station.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Viscous liquid.
Odour	Mild petroleum oil like.
Boiling Point	Not available
Solubility in Water	Insoluble in water.
Vapour Pressure	Negligible at ambient temperature and pressure.
Vapour Density (Air=1)	Not available
Odour Threshold	Not available
Viscosity	29.8 cSt @ 40°C (104°F), 6.0 cSt @ 100°C (212°F), VI=151
Colour	Red.
Pour Point	-54°C (-65.2°F)
Dropping Point	Not applicable.
Density	0.846 kg/L @ 15°C (59°F).
Flash Point	OPEN CUP: >=180°C (356°F) (Cleveland)
Flammability	May be combustible at high temperature.
Ignition Temperature	Fire Point: >190°C (374°F)
Flammable Limits LEL	Not available
Flammable Limits UEL	Not available
Softening Point	Not applicable.
Penetration	Not applicable.
Other Information	Volatility: Non-volatile. Oil/Water Dist. Coeff.: Not available Ionicity (in water): Not available Dispersion Properties: Not available

10. STABILITY AND REACTIVITY

Stability	The product is stable under normal handling and storage conditions.
Hazardous Polymerization	Will not occur under normal working conditions.
Materials to Avoid	Reactive with oxidizing agents and reducing agents.

Hazardous Decomposition Products	May release COx, NOx, smoke and irritating vapours when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

Toxicology Information	Acute Lethality: Acute toxicity information is not available for the product as a whole, therefore, data for some of the ingredients is provided below: Acute Oral toxicity (LD50): >5000 mg/kg (rat) Acute Dermal toxicity (LD50): >2000 mg/kg (rabbit) Acute Inhalation toxicity (LC50): >2500 mg/m³/4h (rat)
Health Hazard	The preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments. Prolonged or repeated contact may cause skin irritation, defatting, drying and dermatitis. Not expected to cause more than slight skin or eye irritation. With its relatively low vapour pressure, this product is not expected be inhaled in any appreciable quantity at ambient conditions. If heated to high temperatures or subjected to mechanical actions which produce vapours or mists, inhalation may cause respiratory tract irritation. Ingestion may produce a laxative effect. For more information refer to Section 11 (TOXICOLOGICAL INFORMATION) of this MSDS.
Reproductive Toxicity	This product is not known to contain any components at >= 0.1% that have been shown to cause reproductive toxicity. Therefore, based upon the available data and the known hazards of the components, this product is not expected to be a reproductive toxin.
Mutagenicity	This product is not known to contain any components at >= 0.1% that have been shown to cause mutagenicity. Therefore, based upon the available data and the known hazards of the components, this product is not expected to be a mutagen.
Carcinogenicity	Carcinogenicity (ACGIH): This product is not known to contain any chemicals at reportable quantities that are listed as Group A1 or A2 carcinogens by ACGIH. Carcinogenicity (IARC): This product is not known to contain any chemicals at reportable quantities that are listed as Group 1, 2A, or 2B carcinogens by IARC. Carcinogenicity (NTP): This product is not known to contain any chemicals at reportable quantities that are listed as carcinogens by NTP. Carcinogenicity (IRIS): This product is not known to contain any chemicals at reportable quantities that are listed as carcinogens by IRIS. Carcinogenicity (OSHA): This product is not known to contain any chemicals at reportable quantities that are listed as carcinogens by OSHA.
Skin Sensitisation	Contact with this product is not expected to cause skin sensitization, based upon the available data and the known hazards of the components.
Subchronic/Chronic Toxicity	Dermal Route: Prolonged or repeated contact may defat and dry skin, and cause dermatitis. Short-term exposure is expected to cause only slight irritation, if any. Inhalation Route: With its relatively low vapour pressure, this product is not expected be inhaled in any appreciable quantity at ambient conditions. If heated to high temperatures or subjected to mechanical actions which produce vapours or mists, inhalation may cause respiratory tract irritation.

Oral Route: Ingestion of this product may lead to aspiration of the liquid, especially if vomiting occurs. This may result in chemical pneumonitis (inflammation of the lungs) and/or pulmonary oedema (an accumulation of fluid in the lungs). May produce a laxative effect.

Eye Irritation/Inflammation: Short-term exposure is expected to cause only slight irritation, if any.

Immunotoxicity: Not available

Respiratory Tract Sensitization: Contact with this product is not expected to cause respiratory tract sensitization, based upon the available data and the known hazards of the components.

Teratogenicity/Embryotoxicity: This product is not known to contain any components at >= 0.1% that have been shown to cause teratogenicity and/or embryotoxicity. Therefore, based upon the available data and the known hazards of the components, this product is not expected to be a teratogen/embryotoxin.

Other Information Other Considerations: No additional remark.

12. ECOLOGICAL INFORMATION

BOD5 and COD: Not available

Persistence / Degradability Not available

Bioaccumulation Not available

Environmental Fate Not available

Other Information Additional Remarks: No additional remark.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Spent/used/waste product may meet the requirements of a hazardous waste. Consult your local or regional authorities. Ensure that waste management processes are in compliance with government requirements and local disposal regulations.

14. TRANSPORT INFORMATION

DOT Classification: Not a hazardous material for transport
Special Provisions for Transport: Not applicable.

15. REGULATORY INFORMATION

This product is acceptable for use under the provisions of WHMIS-CPR. All components of this formulation are listed on the CEPA-DSL (Domestic Substances List).

All components of this formulation are listed on the US EPA-TSCA Inventory.

Does not meet the definitions of a health or physical hazard according to the OSHA - Hazard Communication Standard. (United States)

All components of this product are on the European Inventory of Existing Commercial Chemical Substances (EINECS).

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

Please contact Product Safety for more information.

DSD/DPD (EEC): Not classified under the Dangerous Substances or Dangerous Preparations Directives.

WHMIS (Canada): Not controlled

ADR (Europe)(Pictograms): NOT EVALUATED FOR EUROPEAN TRANSPORT

Risk Phrase

Hazard Rating Systems

NFPA

Fire Hazard	1
Reactivity	0
Health	1

HMIS (U.S.A.)

Health Hazard	1
Fire Hazard	1
Reactivity	0
Personal Protection	B

Rating:
0 Insignificant
1 Slight
2 Moderate
3 High
4 Extreme

16. OTHER INFORMATION

References

Available upon request.
* Marque de commerce de Petro-Canada - Trademark

User Codes

User Title Label	User Code
Approval Number	3730
Part Number	88861004
Part Number	88861043
Part Number	9986153

Glossary
ACGIH - American Conference of Governmental Industrial Hygienists
ADR - Agreement on Dangerous goods by Road (Europe)
ASTM - American Society for Testing and Materials
BOD5 - Biological Oxygen Demand in 5 days
CAN/CGA B149.2 Propane Installation Code
CAS - Chemical Abstract Services
CEPA - Canadian Environmental Protection Act
CERCLA - Comprehensive Environmental Response, Compensation and Liability Act
CFR - Code of Federal Regulations
CHIP - Chemicals Hazard Information and Packaging Approved Supply List
CNS - Central Nervous System

COD5 - Chemical Oxygen Demand in 5 days
CPR - Controlled Products Regulations
DOT - Department of Transport
DSCL - Dangerous Substances Classification and Labeling (Europe)
DSD/DPD - Dangerous Substances or Dangerous Preparations Directives (Europe)
DSL - Domestic Substance List
EEC/EU - European Economic Community/European Union
EINECS - European Inventory of Existing Commercial Chemical Substances
EPA - Environmental Protection Agency
EPCRA - Emergency Planning and Community Right to Know Act
FDA - Food and Drug Administration
FIFRA - Federal Insecticide, Fungicide and Rodenticide Act
HCS - Hazard Communication Standard
HMIS - Hazardous Material Information System
IARC - International Agency for Research on Cancer
IRIS - Integrated Risk Information System
LD50/LC50 - Lethal Dose/Concentration kill 50%
LDLo/LCLo - Lowest Published Lethal Dose/Concentration
NAERG'96 - North American Emergency Response Guide Book (1996)
NFPA - National Fire Prevention Association
NIOSH - National Institute for Occupational Safety & Health
NPRI - National Pollutant Release Inventory
NSNR - New Substances Notification Regulations (Canada)
NTP - National Toxicology Program
OSHA - Occupational Safety & Health Administration
PEL - Permissible Exposure Limit
RCRA - Resource Conservation and Recovery Act
RTECS - Registry of Toxic Effects of Chemical Substances
SARA - Superfund Amendments and Reorganization Act
SD - Single Dose
STEL - Short Term Exposure Limit (15 minutes)
TDG - Transportation Dangerous Goods (Canada)
TDLo/TCLo - Lowest Published Toxic Dose/Concentration
TLm - Median Tolerance Limit
TLV-TWA - Threshold Limit Value-Time Weighted Average
TSCA - Toxic Substances Control Act
USEPA - United States Environmental Protection Agency
USP - United States Pharmacopoeia
WHMIS - Workplace Hazardous Material Information System

For Copy of MSDS:
Internet: www.petro-canada.ca/msds

Lubricants:
Western Canada, telephone: 1-800-661-1199; fax: (780) 464-9564
Ontario & Central Canada, telephone: 1-800-268-5850 and (905) 822-4222; fax: 1-800-201-6285
Quebec & Eastern Canada, telephone: 1-800-576-1686; fax: 800-201-6285

For Product Safety Information: (905) 804-4752

Prepared by Product Safety - JDW on 6/9/2005.

Data entry by Product Safety - RS.

This MSDS has been transcribed into Infosafe NOHSC format from an original issued by the manufacturer on the date shown. Any disclaimer by the manufacturer may not be included in the transcription.

End of MSDS

Print Date: 27/03/2008 BS: 1.9.11