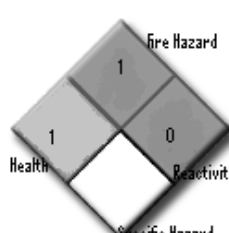


# BOSS LUBRICANTS: MATERIAL SAFETY DATA SHEET

NFPA	HMIS	RATING	PROTECTIVE CLOTHING	DOT (pictograms)
	Health Hazard	1	0 Insignificant	safety goggles/gloves
	Fire Hazard	1	1 Slight	Ø
	Reactivity	0	2 Moderate	
	Personal Protection	B	3 High	
			4 Extreme	

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<b>PRODUCT NAME:</b>	DEXRON VI	<b>CODE</b>	DEX 6 460-613
		<b>DSL</b>	See Section 15
<b>SYNONYM:</b>	RDL-3434, GM Mat Spec. 9986153	<b>TSCA</b>	See Section 15
<b>MANUFACTURER:</b>	<b>BOSS LUBRICANTS</b> 112, 6303 – 30 STREET S.E. CALGARY, AB T2C 1R4		
<b>EMERGENCY PHONE #'S</b>	BOSS LUBRICANTS	800-844-9457	
	CANUTEC TRANSPORTATION	613-886-6666	
<b>POISON CONTROL CENTRE:</b>	Consult local telephone directory for emergency number(s)		
<b>MATERIAL USES:</b>	Automatic Transmission Fluid for use in General Motors Vehicles, requiring the <b>DEXRON VI</b> specification.		

## 2. COMPOSITION AND INFORMATION ON INGREDIENTS

NAME	CAS#	%W/W	TLV-TWA (8h)	STEL	CEILING
Mixture of severely hydro-treated and hydrocracked base oil (petroleum)	The base oil may be a mixture of the following CAS#s: 8042-47-5, 64742-48-7, 54742-52-5, 64742-54-7, 72623-84-8, 72623-85-9, 72623-86-0, 72623-87-1, 178603-84-0, 178603-65-0, 178603-65-1, 178603-66-2, 445411-73-4		5mg/m <sup>3</sup> (oil mist)	10mg/m <sup>3</sup> (oil mist)	Not established
Other Proprietary, non-hazardous additives	Mixture		Not applicable	Not applicable	Not applicable
<b>MANUFACTURER RECOMMENDATION:</b>	Not applicable				
<b>OTHER EXPOSURE LIMITS:</b>	Consult local state, provincial or territory authorities for acceptable exposure limits.				

# **BOSS LUBRICANTS: MATERIAL SAFETY DATA SHEET**

## **3. HAZARDS IDENTIFICATION**

**POTENTIAL HEALTH EFFECTS:** The preparation is not classified as dangerous according to Directive 1999/46/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 to be inhaled in any appreciable quantity at ambient conditions. If heated to high temperatures or subjected to mechanical actions which produce vapour or mists. Inhalation may cause respiratory tract irritation. Ingestion may produce a laxative effect. For more information refer to **Section 11** of the MSDS.

## **4. FIRST AID MEASURES**

**EYE CONTACT:** **IMMEDIATELY** flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek medical attention.

**SKIN CONTACT:** Remove contaminated clothing - launder before reuse. Wash gently and thoroughly the contaminated skin with running water and non-abrasive soap. Seek medical attention.

**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.

**NOTE TO PHYSICIAN:** Not available.

## **5. FIRE-FIGHTING MEASURES**

**FLAMMABILITY:** May be combustible at high temperature.

**FLAMMABLE LIMITS:** Not available.

**FLASH POINTS:** Open cup:  $\geq 180^{\circ}\text{C}$  (ASTM D92, Cleveland).

**AUTO-IGNITION TEMPERATURE:** Fire Point:  $\geq 195^{\circ}\text{C}$  (383°F)

**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 or fire.

**PRODUCTS OF COMBUSTION:** Carbon oxides (CO, CO<sub>2</sub>), Nitrogen oxides (NOX), smoke and irritating vapour as products of incomplete combustion.

**FIRE FIGHTING MEDIA AND INSTRUCTIONS:** NAERG96, 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 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

# BOSS LUBRICANTS: MATERIAL SAFETY DATA SHEET

(Fire-fighting Measures cont'd)

discoloration of tank due to fire. Cool containing vessels with water spray in order to prevent pressure build-up, autoignition or explosion. **SMALL FIRE:** use Dry chemicals, foam, water spray or CO<sub>2</sub>. **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.

## 6. ACCIDENTAL RELEASE MEASURES

**MATERIAL RELEASE OR SPILL** 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. Avoid contact with spilled material. Avoid contaminating sewers, rivers and other water courses with spilled material. Notify appropriate authorities immediately.

## 7. HANDLING AND STORAGE

**HANDLING:** Avoid contact with any sources of ignition, flames, heat, and sparks. Avoid skin contact. Avoid eye contact. Avoid inhalation or product vapours or mists. Empty containers may contain product residue. Do not pressurize, cut, heat, or weld empty containers. Do not reuse 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 and 10).

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**ENGINEERING CONTROLS:** For normal application, special ventilation is not necessary. If user's operations generate vapours or mist, use ventilation to keep 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.

**PERSONAL PROTECTION:** **The selection of personal protective equipment varies, depending upon conditions of use.**

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

**BODY:** Wear appropriate clothing to prevent skin contact. As a minimum long sleeves and trousers should be worn.

# **BOSS LUBRICANTS: MATERIAL SAFETY DATA SHEET**

(Exposure Controls cont'd)

<b>RESPIRATORY:</b>	Where concentrations in air may exceed the occupational exposure limits given in Section 2 (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.
<b>HANDS:</b>	Wear appropriate chemically protective gloves. When handling hot product ensure gloves are heat resistant and insulated.
<b>FEET:</b>	Wear appropriate footwear to prevent product from coming in contact with feet and skin.

## **9 PHYSICAL AND CHEMICAL PROPERTIES**

<b>PHYSICAL STATE AND APPEARANCE:</b>	Viscous liquid.
<b>COLOUR:</b>	Red.
<b>ODOUR:</b>	Mild petroleum oil like.
<b>ODOUR THRESHOLD:</b>	Not available.
<b>BOILING POINT:</b>	Not available.
<b>DENSITY:</b>	0.846 kg/L @15°C (59°F)
<b>VAPOUR DENSITY:</b>	Not available.
<b>VAPOUR PRESSURE:</b>	Negligible at ambient temperature and pressure.
<b>VOLATILITY:</b>	Low volatility.
<b>VISCOSITY:</b>	29.8 cST@40°C(104°F), 6.0cST 100°C.
<b>POUR POINT:</b>	-54°C (65°F).
<b>SOFTENING POINT:</b>	Not applicable.
<b>DROPPING POINT:</b>	Not applicable.
<b>PENETRATION:</b>	Not applicable.
<b>OIL/WATER DIST.COEFF:</b>	Not available.
<b>IONICITY (IN WATER):</b>	Not available.
<b>DISPERSION PROPERTIES:</b>	Not available.
<b>SOLUBILITY:</b>	Insoluble in water.

# **BOSS LUBRICANTS: MATERIAL SAFETY DATA SHEET**

## **10. STABILITY AND REACTIVITY**

<b>CORROSIVITY:</b>	Copper corrosion, 3h @149°C (ASTM D130M): 1b
<b>STABILITY:</b>	The product is stable under normal handling and storage conditions.
<b>INCOMPATIBLE SUBSTANCES/ CONDITIONS TO AVOID:</b>	Reactive with oxidizing agents and reducing agents
<b>HAZARDOUS POLYMERIZATION:</b>	Will not occur under normal working conditions.
<b>DECOMPOSITION PRODUCTS:</b>	May release Cox, NOx, smoke and irritating vapours when heated to decomposition.

## **11. TOXICOLOGICAL INFORMATION**

<b>ROUTES OF ENTRY:</b>	Skin contact, eye contact, inhalation and ingestion.
<b>ACUTE LETHALITY:</b>	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): >5000mg/kg (rat). Acute dermal toxicity (LD50): >2000 mg/kg (rabbit). Acute inhalation toxicity (LC50): >2500 mg/m <sup>3</sup> /4h (rat).
<b>CHRONIC OR OTHER TOXIC EFFECTS:</b>	
<b>DERMAL ROUTE:</b>	Prolonged or repeated contact may defat and dry skin, and cause dermatitis. Short-term exposure is expected to cause only slight irritation, if any.
<b>INHALATION ROUTE:</b>	With its relatively low vapour pressure, this product is not expected to 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.
<b>ORAL ROUTE:</b>	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 edema (an accumulation of fluid in the lungs). May produce a laxative effect.
<b>EYE IRRITATION/ INFLAMMATION:</b>	Short-term exposure is expected to cause only slight irritation, if any.
<b>IMMUNOTOXICITY:</b>	Not available.
<b>SKIN SENSITIZATION:</b>	Contact with this product is not expected to cause skin sensitization, based upon the available data and the known hazards of the components.
<b>RESPIRATORY TRACT SENSITIZATION:</b>	Contact with this product is not expected to cause respiratory tract sensitization, based upon the available data and the known hazards of the components.

# **BOSS LUBRICANTS: MATERIAL SAFETY DATA SHEET**

(Toxicological information cont'd)

<b>MUTAGENIC:</b>	This product is not known to contain any components at $\geq 0.1\%$ 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.
<b>REPRODUCTIVE TOXICITY:</b>	This product is not known to contain any components at $\geq 0.1\%$ 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.
<b>TERATGENICITY/ EMBRYOTOXICITY:</b>	This product is not known to contain any components $\geq 0.1\%$ that have been shown to cause teratogenicity and/or embrotoxicity. Therefore, based upon the available data and the known hazards of the components, this product is not expected to be teratogen/embryotoxin.
<b>CARCINOGENICITY: (ACHI):</b>	This product is not known to contain any chemicals at reportable quantities that are listed as Group A1 or A2 carcinogens by ACGIH.
<b>CARCINOGENICITY: (IARC):</b>	This product is not known to contain any chemicals at reportable quantities that are listed as Group 1, 2A or 2B carcinogens by IARC.
<b>CARCINOGENICITY: (NTP):</b>	This product is not known to contain any chemicals at reportable quantities that are listed as carcinogens by NTP>
<b>CARCINOGENICITY: (IRIS):</b>	This product is not known to contain any chemicals at reportable quantities that are listed as carcinogens by IRIS.
<b>CARCINOGENICITY: (OSHA):</b>	This product is not known to contain any chemicals at reportable quantities that are listed as carcinogens by OSHA.
<b>OTHER CONSIDERATIONS:</b>	No additional remark.

## **12. ECOLOGICAL INFORMATION**

<b>ENVIRONMENTAL FATE:</b>	Not available.	<b>PERSISTANCE / BIOACCUMULATION: POTENTIAL.</b>	Not available.
<b>BOD5 AND COD:</b>	Not available.	<b>PRODUCTS OF BIODEGRADATION:</b>	Not available.
<b>ADDITIONAL RAMARKS:</b> No additional remarks.			

## **13. DISPOSAL CONSIDRATIONS**

<b>WASTE DISPOSAL:</b>	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.
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# **BOSS LUBRICANTS: MATERIAL SAFETY DATA SHEET**

## **14. TRANSPORT INFORMATION**

**DOT CLASSIFICATION:** Not a hazardous material for transport according to the requirements of the DOT (United States).

**SPECIAL PROVISIONS:** Not applicable.

## **15. REGULATORY INFORMATION**

**OTHER REGULATIONS:** This product is acceptable for use under the provisions of WHMIS-CPR. All components of this information are listed on CEPA-DSL (Domestic Substance List).

All components of this information are listed in the US EPA-TSCA inventory.

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

California Prop.65: This product contains an ingredient(s) for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute.

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 (EEG):** Not classified under the Dangerous Substances or Dangerous Preparations Directives.

**ADR(EUROPE)** **Ø**

**WHMIS(CANADA)** Not controlled.

**TDG(CANADA)** **Ø**

## **16. OTHER INFORMATION**

**REFERENCES:** Available upon request.

### **GLOSSARY**

<b>ACGIH:</b>	American Conference of Government Industrial Hygienists	<b>HCS:</b>	Hazardous Communication System
<b>ADR:</b>	Agreement on Dangerous goods by Road (Europe)	<b>HMIS:</b>	Hazardous Material Information System
<b>ASTM:</b>	American Society for Testing and Materials	<b>IARC:</b>	International Agency for Research on Cancer
		<b>IRIS:</b>	Integrated Risk Information System
		<b>LD50/LCD50:</b>	Lethal Dose/Concentration kill 50%
		<b>LDLo/LCLo:</b>	Lowest Published Lethal Dose/ Concentration

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<b>BOD5:</b>	Biological Oxygen Demand in 5 days	<b>NFPA:</b>	National Fire Prevention Association
<b>CAS:</b>	Chemical Abstract Services	<b>NIOSH:</b>	National Institute for Occupational Safety and Health
<b>CEPA:</b>	Canadian Environmental Protection Act	<b>NPRI:</b>	National Pollutant Release Inventory
<b>CERCLA:</b>	Comprehensive Environmental Response, Compensation and Liability Act	<b>NSNR:</b>	New Substances Notification Regulations (Canada)
<b>CFR:</b>	Code of Federal Regulations	<b>NTP:</b>	National Toxicology Program
<b>CHIP:</b>	Chemical Hazard Information and Packaging Approved Supply List	<b>OSHA:</b>	Occupational Safety and Health Administration
<b>COD:</b>	Chemical Oxygen Demand	<b>PEL:</b>	Permissible Exposure Limit
<b>CPR:</b>	Controlled Products Regulations	<b>RCRA:</b>	Resource Conservation and Recovery Act
<b>DOT:</b>	Department of Transportation (U.S.A.)	<b>SARA:</b>	Superfund Amendments and Recognition Act
<b>DSCL:</b>	Dangerous Substances Classification and Labeling (Europe)	<b>STEL:</b>	Short-term Exposure Limit (15 minutes)
<b>DSD/DPD:</b>	Dangerous Substance or Dangerous Preparations Directives (Europe)	<b>TDG:</b>	transportation Dangerous Goods (Canada)
<b>DSL:</b>	Domestic Substance List (Canada)	<b>TDL<sub>o</sub>/TCL<sub>o</sub>:</b>	Lowest Published Toxic Dose/Concentration
<b>EEC/EU:</b>	European Economic Community European Union	<b>TLV-TWA:</b>	Threshold Limit Value-Time Weighted Average
<b>EINECS:</b>	European Inventory of Existing Commercial Chemical Substances	<b>TL<sub>m</sub>:</b>	Median Tolerance Limit
<b>EPCRA:</b>	Emergency Planning and Community Right-To-Know Act	<b>TSCA:</b>	Total Substance Control Act
<b>FIFRA:</b>	Federal Insecticide, Fungicide and Rodenticide Act	<b>USEPA:</b>	United States Environmental Protection Agency
		<b>USP:</b>	United States Pharmacopeia
		<b>WHMIS:</b>	Workplace Hazardous Material Safety Information System
		<b>FDA:</b>	Food and Drug Act

## **COPY OF MSDS**

Internet: [www.bosslubricants.com](http://www.bosslubricants.com)

**DATE PREPARED:** 01/01/2012

## **LUBRICANTS:**

### **BOSS LUBRICANTS**

112, 6303 -30 STREET S.E.

CALGARY, AB

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PH# 403-279-2223

FAX# 403-279-2272

**For Product Safety Information:** (800)844-9457

To the best of our knowledge the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is sole responsibility of the user. All materials may present hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.