

TOOL JOINT COMPOUND

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**Section 6. Accidental Release Measures**

Material Release or Spill	NAERG96, GUIDE 171: Substances of low to moderate hazard. ELIMINATE ALL IGNITION SOURCES. Avoid contact. Stop leak if without risk. Contain spill. Absorb with inert absorbents, dry clay, or diatomaceous earth. Avoid inhaling dust of diatomaceous earth for it may contain silica in very fine particle size, making this a potential respiratory hazard. Place used absorbent in closed metal containers for later disposal or burn absorbent in a suitable combustion chamber. DO NOT FLUSH TO SEWERS, STREAMS OR OTHER BODIES OF WATER. Check with applicable jurisdiction for specific disposal requirements of spilled material and empty containers. Notify the appropriate authorities immediately.
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**Section 7. Handling and Storage**

Handling	Keep away from sources of ignition. DO NOT reuse empty containers without commercial cleaning or reconditioning. Practice good personal hygiene. Wash hands after handling and before eating. Launder work clothes frequently. Discard saturated leather goods.
Storage	Store in tightly closed containers in cool, dry, isolated, well-ventilated area, and away from incompatibles.

**Section 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 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.
Personal Protection - <i>The selection of personal protective equipment varies, depending upon conditions of use.</i>	
Eyes	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.
Body	Wear appropriate clothing to prevent skin contact. As a minimum long sleeves and trousers should be worn.
Respiratory	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.
Hands	Wear appropriate chemically protective gloves. When handling hot product ensure gloves are heat resistant and insulated.
Feet	Wear appropriate footwear to prevent product from coming in contact with feet and skin.
Exposure Limits	Consult local authorities for acceptable exposure limits. This product is not expected to form a mist based on its properties and expected use.

**Section 9. Physical and Chemical Properties**

Physical State and Appearance	Smooth buttery paste.	Viscosity	Mineral Oil Blend: 103.3 cSt @ 40°C, 11.5 cSt @ 100°C (Vt=98)
Colour	Grey.	Pour Point	Mineral Oil Blend: -15°C
Odour	Mild petroleum odour.	Softening Point	Not available.
Odour Threshold	Not available.	Dropping Point	196°C
Boiling Point	<316 °C (600 °F)	Penetration	290 (50 strokes)
Specific Gravity	Mineral Oil Blend: 0.8741 kg/L @ 15 °C (59 °F)	Oil / Water Dist. Coeff.	Not available.
Vapor Density	Not available.	Ionicity (in water)	Not available.
Vapor Pressure	Negligible at ambient temperature and pressure.	Dispersion Properties	Not available.
Volatility	Non-volatile.	Solubility	Insoluble in water.

**Section 10. Stability and Reactivity**

Corrosivity	Not available.	Hazardous Polymerization	Will not occur under normal working conditions.
Stability	The product is stable under normal handling and storage conditions.	Decomposition Products	May release CO <sub>x</sub> , NO <sub>x</sub> , SO <sub>x</sub> , hydrocarbons, metal oxides, smoke and irritating vapours when heated to decomposition.
Incompatible Substances	Reactive with oxidizing agents and acids.		
Conditions to Avoid			

**Section 11. Toxicological Information**

Routes of Entry	Skin contact, eye contact, inhalation, and ingestion.
Acute Lethality	Not available.
Chronic or Other Toxic Effects	
Dermal Route	Prolonged or repeated contact may cause skin irritation characterized by dermatitis or oil acne.
Inhalation Route	Negligible breathing hazard at normal temperatures (up to 38°C) or recommended blending temperatures. Elevated temperatures or mechanical action may form vapours, mists or fumes. Inhalation of oil mists or vapours from hot oil may cause irritation of the upper respiratory tract.
Oral Route	Low toxicity; has laxative effect.

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Eye Irritation/Inflammation:	Repeated or prolonged contact may cause transient irritation, but no permanent damage.	
Immunotoxicity:	Not available.	
Skin Sensitization:	This product is not expected to be a skin sensitizer, based on the available data and the known hazards of the components.	
Respiratory Tract Sensitization:	This product is not expected to be a respiratory tract sensitizer, based on the available data and the known hazards of the components.	
Mutagenic:	This product is not expected to be a mutagen, based on the available data and the known hazards of the components.	
Reproductive Toxicity:	This product is not expected to be a reproductive hazard, based on the available data and the known hazards of the components.	
Teratogenicity/Embryotoxicity:	This product is not expected to be a teratogen or an embryotoxin, based on the available data and the known hazards of the components.	
Carcinogenicity (ACGIH):	Not available.	
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):	Not available.	
Carcinogenicity (OSHA):	This product is not known to contain any chemicals at reportable quantities that are listed as carcinogens by OSHA.	
Other Considerations:	No additional remark.	

Section 12. Ecological Information			
Environmental Fate:	Not available.	Persistence/Bioaccumulation Potential:	Not available.
BOD5 and COD:	Not available.	Products of Biodegradation:	Not available.
Additional Remarks:	No additional remark.		

Section 13. Disposal Considerations	
Waste Disposal:	Preferred waste management priorities are: (1) recycle or reprocess; (2) incineration with energy recovery; (3) disposal at licensed waste disposal facility. Ensure that disposal or reprocessing is in compliance with government requirements and local disposal regulations. Consult your local or regional authorities.

Section 14. Transport Information	
TDG Classification:	Not controlled under TDG (Canada)
Special Provisions for Transport:	Not applicable.

Section 15. Regulatory Information																							
Other Regulations	<p>This product is acceptable for use under the provisions of WHMIS-CPR. All components of this formulation are listed on the CEPA-DL (Domestic Substances List).</p> <p>All components of this formulation are listed on the US EPA-TSCA Inventory.</p> <p>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.</p> <p>Please contact Product Safety for more information.</p>																						
DSD/DPD (Europe)	Not evaluated.																						
DSD/DPD (Europe) (Pictograms)	<p>NOT EVALUATED FOR EUROPEAN TRANSPORT</p> <p>NON ÉVALUÉ POUR LE TRANSPORT EUROPÉEN</p>	<p>DOT (U.S.A.) (Pictograms)</p> 																					
HMIS (U.S.A.)	<table><tr><td>Health Hazard</td><td>1</td></tr><tr><td>Fire Hazard</td><td>1</td></tr><tr><td>Reactivity</td><td>1</td></tr><tr><td>Personal Protection</td><td>B</td></tr></table>	Health Hazard	1	Fire Hazard	1	Reactivity	1	Personal Protection	B	<p>NFPA (U.S.A.)</p> <table><tr><td>Health</td><td>1</td><td>Fire Hazard</td><td>1</td></tr><tr><td></td><td></td><td>Reactivity</td><td>1</td></tr><tr><td colspan="4">Specific hazard</td></tr></table>	Health	1	Fire Hazard	1			Reactivity	1	Specific hazard				
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Section 16. Other Information		
References	Available upon request * Marque de commerce de Petro-Canada - Trademark	
Glossary	<p>ACGIH - American Conference of Governmental Industrial Hygienists          ADR - Agreement on Dangerous goods by Road (Europe)          ASTM - American Society for Testing and Materials          BOD<sub>5</sub> - Biological Oxygen Demand in 5 days          CAN/CSA 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          COD<sub>5</sub> - Chemical Oxygen Demand in 5 days          CPR - Controlled Products Regulations          DOT - Department of Transport          DSCG - 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          EPCRA - Emergency Planning and Community Right to Know Act          FDA - Food and Drug Administration          FIFRA - Federal Insecticide, Fungicide and Rodenticide Act          HCS - Hazardous Communication System          HMIS - Hazardous Material Information System          IARC - International Agency for Research on Cancer</p> <p>IRIS - Integrated Risk Information System          LD<sub>50</sub>/LC<sub>50</sub> - Lethal Dose/Concentration kill 50%          LD<sub>Lo</sub>/LC<sub>Lo</sub> - Lowest Published Lethal Dose/Concentration          NAERG'96 - North American Emergency Response Guide Book (1996)          NFPA - National Fire Protection Association          NIOSH - National Institute for Occupational Safety &amp; Health          NPLRI - National Pollutant Release Inventory          NSNR - New Substances Notification Regulations (Canada)          NTP - National Toxicology Program          OSHA - Occupational Safety &amp; Health Administration          PEL - Permissible Exposure Limit          RCRA - Resource Conservation and Recovery Act          SARA - Superfund Amendments and Reorganization Act          SD - Single Dose          STEL - Short Term Exposure Limit (15 minutes)          TDG - Transportation Dangerous Goods (Canada)          TD<sub>Lo</sub>/TC<sub>Lo</sub> - Lowest Published Toxic Dose/Concentration          Tm - Median Tolerance Limit          TL - 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</p>	
Information Contact	Internet: <a href="http://www.petro-canada.ca">www.petro-canada.ca</a>	Prepared by Product Safety - JDW on 12/18/2002.
	<p>Lubricants:          Western Canada, telephone: 1-800-661-1199;          fax: (780) 464-9564          Ontario &amp; Central Canada, telephone:          1-800-268-5850 and (905) 822-4222; fax:          1-800-201-6285          Quebec &amp; Eastern Canada, telephone:          1-800-576-1686; fax: 800-201-6285</p> <p>For Product Safety Information: (905) 804-4752</p>	Data entry by Product Safety - JDW.
<p>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 the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.</p>		



## Material Safety Data Sheet

WHMIS (Pictograms)	WHMIS (Classification)	Protective Clothing	TDG (pictograms)
	Not controlled		

Section 1. Chemical Product and Company Identification			
Product Name	<b>TRAXON® XL SYNTHETIC BLEND 75W-90, 80W-140</b>		Code TRXL759, 470-499-0 TRXL814, 470-500-0
Synonym	Not available		Validated on 5/29/2003.
Manufacturer	PETRO-CANADA P.O. Box 2844 Calgary, Alberta T2P 3E3		<b>In case of Emergency</b> Petro-Canada: 403-296-3000 Canotec Transportation: 614-996-6666 Poison Control Centre: Consult local telephone directory for emergency numbers(s).
Material Uses	These products are multipurpose automotive hypoid gear lubricants suitable for use in lower temperatures in passenger cars, trucks and off-highway vehicles.		

Section 2. Composition and Information on Ingredients					
			Exposure Limits (ACGIH)		
Name	CAS #	% (W/W)	TLV-TWA(8 h)	STEL	CEILING
1) Mixture of severely hydrotreated and hydrocracked and/or solvent-refined base oil (petroleum), synthetic hydrocarbons and other proprietary, non-hazardous additives.	Mixture	100	5 mg/m <sup>3</sup> (oil mist)	15 mg/m <sup>3</sup> (oil mist)	Not established
Manufacturer Recommendation	Not applicable				
Other Exposure Limits	Consult local, state, provincial or territory authorities for acceptable exposure limits.				

Section 3. Hazards Identification	
Potential Health Effects	Non-irritating to slight transient irritation to skin and eyes, but no permanent damage. Relatively non-toxic via ingestion. This product has a low vapour pressure and is not expected to present an inhalation exposure at ambient conditions. Upon heating to high temperatures, or mechanical actions which may produce vapours or mists, inhalation of product may cause irritation of the breathing passages. For more information, refer to Section 11.

Section 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.

Section 5. Fire-fighting Measures			
Flammability	May be combustible at high temperature	Flammable Limits	Not available
Flash Points	OPEN CUP: $\geq 183^{\circ}\text{C}$ (351.4 $^{\circ}\text{F}$ ) (Cleveland)	Auto-Ignition Temperature	Not available
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.
Products of Combustion	Carbon oxides (CO, CO <sub>2</sub> ), nitrogen oxides (NO <sub>x</sub> ), sulphur oxides (SO <sub>x</sub> ), smoke and irritating vapours as products of incomplete combustion		
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<b>Fire Fighting Media and Instructions</b>	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 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. SMALL FIRE: use DRY chemicals, foam, water spray or CO2. LARGE FIRE: 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.

Section 6. Accidental Release Measures	
<b>Material Release or Spill</b>	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.

Section 7. Handling and Storage	
<b>Handling</b>	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.
<b>Storage</b>	Store in dry, cool, well-ventilated area. Keep container tightly closed. Store away from incompatible and reactive materials (See section 5 and 10).

Section 8. Exposure Controls/Personal Protection	
<b>Engineering Controls</b>	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.
<b>Personal Protection</b>	<b>The selection of personal protective equipment varies, depending upon conditions of use.</b>
<b>Eyes</b>	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.
<b>Body</b>	Wear appropriate clothing to prevent skin contact. As a minimum long sleeves and trousers should be worn.
<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.

Section 9. Physical and Chemical Properties			
<b>Physical State and Appearance</b>	Viscous liquid.	<b>Viscosity</b>	75W90: 106.7 cSt @ 40°C (104°F); 16.52 cSt @ 100°C (212°F); VI=168 80W140: 254.8 cSt @ 40°C (104°F); 25.24 cSt @ 100°C (212°F); VI=127
<b>Colour</b>	Colourless to pale yellow.	<b>Pour Point</b>	75W90: -42°C (-44°F) 80W140: -36°C (-33°F)
<b>Odour</b>	No odour or slight petroleum oil like.	<b>Softening Point</b>	Not applicable.
<b>Odour Threshold</b>	Not available.	<b>Dropping Point</b>	Not applicable.
<b>Boiling Point</b>	Not available.	<b>Penetration</b>	Not applicable.
<b>Density</b>	0.8699 - 0.878 kg/L @ 15°C (59°F)	<b>Oil / Water Dist. Coefficient</b>	Not available.
<b>Vapour Density</b>	Not available.	<b>Ionicity (in water)</b>	Not available.
<b>Vapour Pressure</b>	Negligible at ambient temperature and pressure.	<b>Dispersion Properties</b>	Not available.
<b>Volatility</b>	Non-volatile.	<b>Solubility</b>	Insoluble in water.

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**Section 10. Stability and Reactivity**

<b>Corrosivity</b>	Copper corrosion, 3h, 121°C (ASTM D6130): 1b		
<b>Stability</b>	The product is stable under normal handling and storage conditions.	<b>Hazardous Polymerization</b>	Will not occur under normal working conditions
<b>Incompatible Substances / Conditions to Avoid</b>	Reactive with oxidizing agents.	<b>Decomposition Products</b>	May release CO <sub>x</sub> , NO <sub>x</sub> , SO <sub>x</sub> , H <sub>2</sub> S, PO <sub>x</sub> , SiO <sub>2</sub> , methacrylate monomers, aldehydes, alkyl mercaptans, smoke and irritating vapours when heated to decomposition.

**Section 11. Toxicological Information**

<b>Routes of Entry</b>	Skin contact, eye contact, inhalation and ingestion.		
<b>Acute Lethality</b>	Based on toxicity of components. Acute oral toxicity (LD50): >5000 mg/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>	<p><b>Dermal Route:</b> Prolonged or repeated contact may cause skin irritation characterized by dermatitis or oil acne.</p> <p><b>Inhalation Route:</b> Negligible breathing hazard at normal temperatures (up to 38 °C) or recommended blending temperatures. Elevated temperatures or mechanical action may form vapours, mists or fumes. Inhalation of oil mists or vapours from hot oil may cause irritation of the upper respiratory tract.</p> <p><b>Oral Route:</b> Low toxicity, has laxative effect.</p> <p><b>Eye Irritation/Inflammation:</b> Repeated or prolonged contact may cause transient irritation, but no permanent damage.</p> <p><b>Immunotoxicity:</b> Not available.</p> <p><b>Skin Sensitization:</b> This product is not expected to be a skin sensitizer, based on the available data and the known hazards of the components.</p> <p><b>Respiratory Tract Sensitization:</b> This product is not expected to be a respiratory tract sensitizer, based on the available data and the known hazards of the components.</p> <p><b>Mutagenic:</b> This product is not expected to be a mutagen, based on the available data and the known hazards of the components.</p> <p><b>Reproductive Toxicity:</b> This product is not expected to be a reproductive hazard, based on the available data and the known hazards of the components.</p> <p><b>Teratogenicity/Embryotoxicity:</b> This product is not expected to be a teratogen or an embryotoxin, based on the available data and the known hazards of the components.</p> <p><b>Carcinogenicity (ACGIH):</b> This product is not known to contain any chemicals at reportable quantities that are listed as A1 or A2 carcinogens by ACGIH.</p> <p><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.</p> <p><b>Carcinogenicity (NTP):</b> This product is not known to contain any chemicals at reportable quantities that are listed as carcinogens by NTP.</p> <p><b>Carcinogenicity (IRIS):</b> This product is not known to contain any chemicals at reportable quantities that are listed as carcinogens by IRIS.</p> <p><b>Carcinogenicity (OSHA):</b> This product is not known to contain any chemicals at reportable quantities that are listed as carcinogens by OSHA.</p>		
<b>Other Considerations</b>	No additional remark.		

**Section 12. Ecological Information**

<b>Environmental Fate</b>	Not available.	<b>Persistence/ Bioaccumulation Potential</b>	Not available.
<b>BOD5 and COD</b>	Not available.	<b>Products of Biodegradation</b>	Not available.
<b>Additional Remarks</b>	No additional remark.		

**Section 13. Disposal Considerations**

<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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TRAXON® XL SYNTHETIC BLEND 75W-90: 80W-140		Page Number: 4																					
<b>Section 14. Transport Information</b>																							
<b>TDG Classification</b>	Not controlled under TDG (Canada).	<b>Special Provisions for Transport</b>	Not applicable.																				
<b>Section 15. Regulatory Information</b>																							
<b>Other Regulations</b>	<p>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).</p> <p>All components of this formulation are listed on the US EPA-TSCA Inventory.</p> <p>All components of this product are on the European Inventory of Existing Commercial Chemical Substances (EINECS).</p> <p>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.</p> <p>Please contact Product Safety for more information.</p>																						
<b>DSD/DPD (Europe)</b>	Not classified under the Dangerous Substances or Dangerous Preparations Directives.	<b>HCS (U.S.A.)</b>	Not controlled under the HCS (United States).																				
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<b>Section 16. Other Information</b>																							
<b>References</b>	Available upon request. * Marque de commerce de Petro-Canada / Trademark																						
<b>Glossary</b> <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <p>ACGIH - American Conference of Governmental Industrial Hygienists</p> <p>ADR - Agreement on Dangerous goods by Road (Europe)</p> <p>ASTM - American Society for Testing and Materials</p> <p>BOD5 - Biological Oxygen Demand in 5 days</p> <p>CAN/CGA B149.2 - Propane Installation Code</p> <p>CAS - Chemical Abstract Services</p> <p>CEPA - Canadian Environmental Protection Act</p> <p>CERCLA - Comprehensive Environmental Response, Compensation and Liability Act</p> <p>CPR - Code of Federal Regulations</p> <p>CHIP - Chemicals Hazard Information and Packaging Approved Supply List</p> <p>COD5 - Chemical Oxygen Demand in 5 days</p> <p>CPR - Controlled Products Regulations</p> <p>DOT - Department of Transport</p> <p>CSCL - Dangerous Substances Classification and Labeling (Europe)</p> <p>DSD/DPD - Dangerous Substances or Dangerous Preparations Directives (Europe)</p> <p>DSL - Domestic Substance List</p> <p>EEC/EU - European Economic Community/European Union</p> <p>EINECS - European Inventory of Existing Commercial Chemical Substances</p> <p>EPORA - Emergency Planning and Community Right to Know Act</p> <p>FDA - Food and Drug Administration</p> <p>FIFRA - Federal Insecticide, Fungicide and Rodenticide Act</p> <p>HCS - Hazardous Communication System</p> <p>HMIS - Hazardous Material Information System</p> <p>IARC - International Agency for Research on Cancer</p> </div> <div style="width: 50%;"> <p>IRIS - Integrated Risk Information System</p> <p>LD50/LC50 - Lethal Dose/Concentration kill 50%</p> <p>LDLo/LCLo - Lowest Published Lethal Dose/Concentration</p> <p>NAERG 96 - North American Emergency Response Guide Book (1996)</p> <p>NFPA - National Fire Protection Association</p> <p>NIOSH - National Institute for Occupational Safety &amp; Health</p> <p>NPRI - National Pollutant Release Inventory</p> <p>NSNR - New Substances Notification Regulations (Canada)</p> <p>NTP - National Toxicology Program</p> <p>OSHA - Occupational Safety &amp; Health Administration</p> <p>PEL - Permissible Exposure Limit</p> <p>RCRA - Resource Conservation and Recovery Act</p> <p>SARA - Superfund Amendments and Reorganization Act</p> <p>SD - Single Dose</p> <p>STEL - Short Term Exposure Limit (15 minutes)</p> <p>TDG - Transportation Dangerous Goods (Canada)</p> <p>TDLo/TCLo - Lowest Published Toxic Dose/Concentration</p> <p>Tm - Median Tolerance Limit</p> <p>TLV-TWA - Threshold Limit Value-Time Weighted Average</p> <p>TSCA - Toxic Substances Control Act</p> <p>USEPA - United States Environmental Protection Agency</p> <p>USP - United States Pharmacopoeia</p> <p>WHMIS - Workplace Hazardous Material Information System</p> </div> </div>																							
<b>For Copy of MSDS</b> <p>The Canadian Controlled Products Regulations (CPR) (Under the Hazardous Products Act, part of the WHMIS legislation) only apply to WHMIS Controlled (i.e., hazardous) products. Therefore, the CPR and the 3-year update rule specified therein do not apply to WHMIS Non-Controlled products. Although this is true, customarily Petro-Canada reviews and updates Non-Controlled product MSDS if a customer requests such an update. These Non-Controlled product updates are given a lower priority than Controlled products but are handled as soon as practicable. If you would like to verify if the MSDS you have is the most current, or you require any further information, please contact:</p> <p>Internet: <a href="http://www.petro-canada.ca">www.petro-canada.ca</a></p> <p>Lubricants:            Western Canada, telephone: 1-800-661-1199; fax: (780) 464-9564</p>		<b>Prepared by Product Safety - JDW on 5/29/2003.</b> <b>Data entry by Product Safety - JDW.</b>																					
Continued on Next Page		Available in French																					

TRAXON® XL SYNTHETIC BLEND 75W-90 80W-140		Page Number: 5
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		
<i>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 the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.</i>		



Date Prepared: November 14, 2003  
Supersedes: September 17, 1998  
MSDS Number: 08366

### 1. PRODUCT INFORMATION

Product Identifier: UNIREX LOTEMP MOLY GREASE

Application and Use:  
Lubricating grease

Product Description:

A grease, a mixture lubricating oil, soap and additives.

### REGULATORY CLASSIFICATION

WHMIS:  
Not a controlled product

CEPA: CANADIAN ENVIRONMENTAL PROTECTION ACT  
All components of this product are either on the Domestic Substances List (DSL), exempt, or have been notified under CEPA.

TDG INFORMATION (RAIL/ROAD)  
Not Regulated in Canada.

Please be aware that other regulations may apply.

### TELEPHONE NUMBERS

Emergency 24 hr. (519) 339-2145  
Technical Info. (800) 268-3183

### MANUFACTURER/SUPPLIER:

IMPERIAL OIL  
Products Division  
111 St Clair Avenue West  
Toronto, Ontario  
M5W 1K3  
(416) 968-4441

### 2. REGULATED COMPONENTS

The following components are defined in accordance with sub-paragraph 13(a) (i) to (iv) or paragraph 14(a) of the Hazardous Products Act:

NAME	CAS #
Not applicable	

### 3. TYPICAL PHYSICAL & CHEMICAL PROPERTIES

**CDNX DSP**

Physical State: Liquid  
 Specific gravity: not available  
 Viscosity: <20.00 cSt at 40 deg C  
 Vapour Density: not available  
 Boiling Point: not available  
 Evaporation rate: <1 (1= n-butylacetate)  
 Solubility in water: negligible  
 Freezing/Pour Point: 245 deg C ASTM D97  
 Odour Threshold: not available  
 Vapour Pressure: 0.002 kPa at 20 deg C  
 Density: 0.92 g/cc at 15 deg C  
 Appearance/odour: Black paste, petroleum odour.

**4. HEALTH HAZARD INFORMATION**
**NATURE OF HAZARD**
**INHALATION:**

Negligible hazard at normal temperatures (up to 38 deg C).  
 Elevated temperatures or mechanical action may form vapours, mists or fumes which may be irritating to the eyes, nose, throat and lungs.  
 Avoid breathing vapours or mists

**EYE CONTACT:**

Slightly irritating, but will not injure eye tissue.

**SKIN CONTACT:**

Low toxicity.  
 Frequent or prolonged contact may irritate the skin.  
 High pressure greasing equipment is capable of injecting grease under the skin which may have severe health consequences.

**INGESTION:**

Low toxicity.  
 Small amounts of this liquid drawn into the lungs from swallowing or vomiting may cause severe health effects (e.g. bronchopneumonia or pulmonary edema).

**ACUTE TOXICITY DATA:**

Based on animal testing data from similar materials and products, the acute toxicity of this product is expected to be:

Oral	:	LD50 > 5000 mg/kg	(Rat)
Dermal	:	LD50 > 3160 mg/kg	(Rabbit)
Inhalation	:	LC50 > 5000 mg/m3	(Rat)

**OCCUPATIONAL EXPOSURE LIMIT:**
**ACGIH recommends:**

For insoluble Molybdenum compounds, 10 mg/m3.  
 For oil mists, 5 mg/m3.

Local regulated limits may vary

**5. FIRST AID MEASURES**
**INHALATION:**

In case of adverse exposure to vapours, mists and/or fumes formed at elevated temperature, or by mechanical action, immediately remove the affected victim from exposure. Administer artificial respiration if



CDNX:DSF

breathing has stopped. Keep at rest. Call for prompt medical attention.

#### **EYE CONTACT:**

Flush eyes with large amounts of water until irritation subsides. If irritation persists, get medical attention.

#### **SKIN CONTACT**

Flush with large amounts of water. Use soap if available. Remove severely contaminated clothing (including shoes) and launder before reuse. If irritation persists, seek medical attention. Consult a physician immediately if the material is injected under the skin from the misuse of high pressure greasing equipment.

#### **INGESTION:**

DO NOT induce vomiting since it is important that no amount of the material should enter the lungs (aspiration). Keep at rest. Get prompt medical attention.

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## **6. PREVENTIVE AND CORRECTIVE MEASURES**

### **PERSONAL PROTECTION:**

The selection of personal protective equipment varies, depending upon conditions of use. In open systems where contact is likely, wear safety goggles, chemical-resistant overalls, and chemically impervious gloves. Where only incidental contact is likely, wear safety glasses with side shields. No other special precautions are necessary provided skin/eye contact is avoided. Where concentrations in air may exceed the occupational exposure limits given in Section 4 and where engineering, work practices or other means of exposure reduction are not adequate, approved respirators may be necessary to prevent overexposure by inhalation.

### **ENGINEERING CONTROLS:**

The use of local exhaust ventilation is recommended to control emissions near the source. Laboratory samples should be handled in a fumehood. Provide mechanical ventilation of confined spaces.

### **HANDLING, STORAGE AND SHIPPING:**

Keep containers closed. Handle and open containers with care. Store in a cool, well ventilated place away from incompatible materials. In keeping with good personal hygiene practices, wash hands thoroughly after handling the material. Store and load at normal (up to 38 deg C) temperature and at atmospheric pressure. Empty containers may contain product residue. Do not pressurize cut, heat, or weld empty containers. Do not reuse empty containers without commercial cleaning or reconditioning.

### **LAND SPILL:**

Eliminate source of ignition. Keep public away. Prevent additional discharge of material, if possible to do so without hazard. Prevent spills from entering sewers, watercourses or low areas. Contain spilled liquid with sand or earth. Allow material to solidify and scrape up. Place material in suitable containers for recycle or disposal. Consult an expert on disposal of recovered material. Ensure disposal in compliance with government requirements and ensure conformity to local disposal regulations. Notify the appropriate authorities immediately.



#### CDNX DSP

Take all additional action necessary to prevent and remedy the adverse effects of the spill.

#### **WATER SPILL:**

Remove from surface by skimming or with suitable absorbents. If allowed by local authorities and environmental agencies, sinking and/or suitable dispersants may be used in unconfined waters. Consult an expert on disposal of recovered material. Ensure disposal in compliance with government requirements and ensure conformity to local disposal regulations. Notify the appropriate authorities immediately. Take all additional action necessary to prevent and remedy the adverse effects of the spill.

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### **7. FIRE AND EXPLOSION HAZARD**

Flashpoint and method: >110 deg C COC ASTM D92 est.baseoil

Autoignition: NA Flammable Limits: LEL: NA UEL: NA

#### **GENERAL HAZARDS:**

Low Hazard; liquids may burn upon heating to temperatures at or above the flash point.

Decomposes; flammable/toxic gases will form at elevated temperatures (thermal decomposition).

Toxic gases will form upon combustion.

#### **FIRE FIGHTING:**

Use water spray to cool fire exposed surfaces and to protect personnel.

Shut off fuel to fire.

Use foam, dry chemical or water spray to extinguish fire.

Respiratory and eye protection required for fire fighting personnel.

A self-contained breathing apparatus (SCBA) should be used for all indoor fires and any significant outdoor fires. For small outdoor fires, which may easily be extinguished with a portable fire extinguisher, use of an SCBA may not be required.

#### **HAZARDOUS COMBUSTION PRODUCTS:**

Smoke, carbon monoxide, carbon dioxide and traces of oxides of sulphur

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### **8. REACTIVITY DATA**

#### **STABILITY:**

This product is stable. Hazardous polymerization will not occur.

#### **INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:**

Strong oxidizing agents

#### **HAZARDOUS DECOMPOSITION:**

Fumes, smoke, carbon monoxide and sulphur oxides in case of incomplete combustion

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### **9. NOTES**

All components of this product are listed on the U.S. TSCA inventory.



CDNX DSP

REVISION SUMMARY:

Since 17 September 1998, this MSDS has been revised in Section(s):  
1, 7

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**10. PREPARATION**

Date Prepared: November 14, 2003  
Prepared by: Lubricants & Specialties  
IMPERIAL OIL  
Products Division  
111 St Clair Avenue West  
Toronto, Ontario  
M5W 1K3  
(800) 268-3183

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CAUTION: " The information contained herein relates only to this product or material and may not be valid when used in combination with any other product or material or in any process. If the product is not to be used for a purpose or under conditions which are normal or reasonably foreseeable, this information cannot be relied upon as complete or applicable. For greater certainty, uses other than those described in Section 1 must be reviewed with the supplier. The information contained herein is based on the information available at the indicated date of preparation. This MSDS is for the use of Imperial Oil customers and their employees and agents only. Any further distribution of this MSDS by Imperial Oil customers is prohibited without the written consent of Imperial Oil."



## MATERIAL SAFETY DATA SHEET

Date Prepared: April 06, 2002  
Supersedes: January 08, 1999  
MSDS Number: 08258

### 1. PRODUCT INFORMATION

Product Identifier: UNIVIS N

Application and Use:  
Hydraulic fluid

Product Description:

Mixture of paraffinic and naphthenic hydrocarbons (saturated and unsaturated), and additives.

### REGULATORY CLASSIFICATION

WHMIS:  
Not a controlled product

CEPA: CANADIAN ENVIRONMENTAL PROTECTION ACT  
All components of this product are either on the Domestic Substances List (DSL) or are exempt.

TDG INFORMATION (RAIL/ROAD):  
Not Regulated in Canada.

Please be aware that other regulations may apply.

### TELEPHONE NUMBERS

Emergency 24 hr. (519) 339-2145  
Technical Info. (800) 268-3183

### MANUFACTURER/SUPPLIER:

IMPERIAL OIL  
Products Division  
111 St Clair Avenue West  
Toronto, Ontario  
M5W 1K3  
(416) 968-4441

### 2. REGULATED COMPONENTS

The following components are defined in accordance with sub-paragraph 13(a) (i) to (iv) or paragraph 14(a) of the Hazardous Products Act:

NAME	CAS #
Not applicable	

**3. TYPICAL PHYSICAL & CHEMICAL PROPERTIES**

Physical State: Liquid  
Specific gravity: not available  
Viscosity: 22.00 cSt at 40 deg C  
Vapour Density: not available  
Boiling Point: 229 to 512 deg C  
Evaporation rate: <0.1 (1= n-butylacetate)  
Solubility in water: negligible  
Freezing/Pour Point: -48 deg C ASTM D97  
Odour Threshold: not available  
Vapour Pressure: <1 kPa at 38 deg C  
Density: 0.87 g/cc at 15 deg C  
Appearance/odour: Yellow oil, petroleum odour

**4. HEALTH HAZARD INFORMATION****NATURE OF HAZARD****INHALATION:**

Negligible hazard at normal temperatures (up to 38 deg C).  
Elevated temperatures or mechanical action may form vapours, mists or fumes which may be irritating to the eyes, nose, throat and lungs.  
Avoid breathing vapours or mists.

**EYE CONTACT:**

Slightly irritating, but will not injure eye tissue.

**SKIN CONTACT:**

Low toxicity.  
Frequent or prolonged contact may irritate the skin.

**INGESTION:**

Low toxicity.

**ACUTE TOXICITY DATA:**

Based on animal testing data from similar materials and products, the acute toxicity of this product is expected to be:

Oral : LD50 > 5000 mg/kg (Rat)  
Dermal : LD50 > 3160 mg/kg (Rabbit)  
Inhalation : LC50 > 5000 mg/m3 (Rat)

**OCCUPATIONAL EXPOSURE LIMIT:****ACGIH recommends:**

For oil mists. 5 mg/m3

Local regulated limits may vary

**5. FIRST AID MEASURES****INHALATION:**

Vapour pressure of this material is low and as such inhalation under normal conditions is usually not a problem. If overexposed to oil mist, remove from further exposure. Administer artificial respiration if breathing has stopped. Keep at rest. Call for prompt medical attention.



CDNX DSP

#### **EYE CONTACT**

Flush eyes with large amounts of water until irritation subsides. If irritation persists, get medical attention.

#### **SKIN CONTACT:**

Flush with large amounts of water. Use soap if available. Remove severely contaminated clothing (including shoes) and launder before reuse. If irritation persists, seek medical attention.

#### **INGESTION**

If swallowed, DO NOT induce vomiting. Keep at rest. Get prompt medical attention.

## **6. PREVENTIVE AND CORRECTIVE MEASURES**

### **PERSONAL PROTECTION**

The selection of personal protective equipment varies, depending upon conditions of use. In open systems where contact is likely, wear safety goggles, chemical-resistant overalls, and chemically impervious gloves. Where only incidental contact is likely, wear safety glasses with side shields. No other special precautions are necessary provided skin/eye contact is avoided. Where concentrations in air may exceed the occupational exposure limits given in Section 4 and where engineering, work practices or other means of exposure reduction are not adequate, approved respirators may be necessary to prevent overexposure by inhalation.

### **ENGINEERING CONTROLS:**

The use of local exhaust ventilation is recommended to control emissions near the source. Laboratory samples should be handled in a fumehood. Provide mechanical ventilation of confined spaces.

### **HANDLING, STORAGE AND SHIPPING:**

Keep containers closed. Handle and open containers with care. Store in a cool, well ventilated place away from incompatible materials. Do not handle or store near an open flame, sources of heat, or sources of ignition. In keeping with good personal hygiene practices, wash hands thoroughly after handling the material. Empty containers may contain product residue. Do not pressurize, cut, heat, or weld empty containers. Do not reuse empty containers without commercial cleaning or reconditioning.

### **LAND SPILL:**

Eliminate source of ignition. Keep public away. Prevent additional discharge of material, if possible to do so without hazard. Prevent spills from entering sewers, watercourses or low areas. Contain spilled liquid with sand or earth. Recover by pumping or by using a suitable absorbent. Consult an expert on disposal of recovered material. Ensure disposal in compliance with government requirements and ensure conformity to local disposal regulations. Notify the appropriate authorities immediately. Take all additional action necessary to prevent and remedy the adverse effects of the spill.

### **WATER SPILL**

Remove from surface by skimming or with suitable absorbents. If allowed





CDNX DSP

by local authorities and environmental agencies, sinking and/or suitable dispersants may be used in unconfined waters.

Consult an expert on disposal of recovered material. Ensure disposal in compliance with government requirements and ensure conformity to local disposal regulations. Notify the appropriate authorities immediately. Take all additional action necessary to prevent and remedy the adverse effects of the spill.

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## 7. FIRE AND EXPLOSION HAZARD

Flashpoint and method: 150 deg C COC ASTM D92

Autoignition: NA Flammable Limits: LEL: NA UEL: NA

### GENERAL HAZARDS:

Low Hazard: liquids may burn upon heat : : : temperatures at or above the flash point.

Toxic gases will form upon combustion

### FIRE FIGHTING:

Use water spray to cool fire exposed surfaces and to protect personnel. Shut off fuel to fire.

Use foam, dry chemical or water spray to extinguish fire.

Respiratory and eye protection required for fire fighting personnel.

Avoid spraying water directly into storage containers due to danger of boilover.

A self-contained breathing apparatus (SCBA) should be used for all indoor fires and any significant outdoor fires. For small outdoor fires, which may easily be extinguished with a portable fire extinguisher, use of an SCBA may not be required.

### HAZARDOUS COMBUSTION PRODUCTS:

Smoke, carbon monoxide, carbon dioxide under thermal decomposition.

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## 8. REACTIVITY DATA

### STABILITY:

This product is stable. Hazardous polymerization will not occur.

### INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:

Strong oxidizing agents

### HAZARDOUS DECOMPOSITION:

none

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## 9. NOTES

All components of this product are listed on the U.S. TSCA inventory.

THREE YEAR WHMIS REVIEW.

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## 10. PREPARATION

Date Prepared: April 06, 2002

Prepared by: Lubricants & Specialties  
IMPERIAL OIL



CDNX DSP

Products Division  
111 St Clair Avenue West  
Toronto, Ontario  
M5W 1K3  
(800) 268-3183

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**MATERIAL SAFETY DATA SHEET**

Date Prepared: April 06, 2002  
Supersedes: January 08, 1999  
MSDS Number: 08259

**1. PRODUCT INFORMATION**

Product Identifier: UNIVIS N

Application and use:  
Hydraulic fluid

Product Description:

Mixture of paraffinic and naphthenic hydrocarbons (saturated and unsaturated), and additives.

**REGULATORY CLASSIFICATION**

WHMIS:

Not a controlled product

CEPA: CANADIAN ENVIRONMENTAL PROTECTION ACT

All components of this product are either on the Domestic Substances List (DSL) or are exempt.

TDG INFORMATION (RAIL/ROAD):

Not Regulated in Canada.

Please be aware that other regulations may apply.

**TELEPHONE NUMBERS****MANUFACTURER/SUPPLIER:**

Emergency 24 hr.	(519) 339-2145	IMPERIAL OIL
Technical Info.	(800) 268-3183	Products Division
		111 St Clair Avenue West
		Toronto, Ontario
		M5W 1K3
		(416) 968-4441

**2. REGULATED COMPONENTS**

The following components are defined in accordance with sub-paragraph 13(a) (i) to (iv) or paragraph 14(a) of the Hazardous Products Act:

NAME

C.F.S. #

Not applicable

**3. TYPICAL PHYSICAL & CHEMICAL PROPERTIES**

Physical State: Liquid  
Specific gravity: not available  
Viscosity: 32.00 cSt at 40 deg C  
Vapour Density: not available  
Boiling Point: 229 to 512 deg C  
Evaporation rate: <0.1 (1= n-butylacetate)  
Solubility in water: negligible  
Freezing/Pour Point: -42 deg C ASTM D97  
Odour Threshold: not available  
Vapour Pressure: <1 kPa at 38 deg C  
Density: 0.87 g/cc at 15 deg C  
Appearance/odour: Yellow oil, petroleum odour

**4. HEALTH HAZARD INFORMATION****NATURE OF HAZARD****INHALATION:**

Negligible hazard at normal temperatures (up to 38 deg C).  
Elevated temperatures or mechanical action may form vapours, mists or fumes which may be irritating to the eyes, nose, throat and lungs.  
Avoid breathing vapours or mists.

**EYE CONTACT:**

Slightly irritating, but will not injure eye tissue.

**SKIN CONTACT:**

Low toxicity.  
Frequent or prolonged contact may irritate the skin.

**INGESTION:**

Low toxicity

**ACUTE TOXICITY DATA:**

Based on animal testing data from similar materials and products, the acute toxicity of this product is expected to be:

Oral	: LD50 > 5000 mg/kg	(Rat)
Dermal	: LD50 > 3160 mg/kg	(Rabbit)
Inhalation	: LC50 > 5000 mg/m3	(Rat)

**OCCUPATIONAL EXPOSURE LIMIT:****ACGIH recommends:**

For oil mists, 5 mg/m3

Local regulated limits may vary

**5. FIRST AID MEASURES****INHALATION:**

Vapour pressure of this material is low and as such inhalation under normal conditions is usually not a problem. If overexposed to oil mist, remove from further exposure. Administer artificial respiration if breathing has stopped. Keep at rest. Call for prompt medical attention.