PRECISION<sub>TM</sub> XL EP1, EP2



## **1**. Product and company identification

Common name	: PRECISION <sub>TM</sub> XL EP1, EP2
Code	: PXL1, 650-132; PXL2, 650-133
Material uses	: PRECISION XL EP1, EP2 greases are high performance, long life, EP greases designed for trouble-free lubrication of a wide range of automotive and industrial equipment.
Manufacturer	: PETRO-CANADA P.O. Box 2844 150 – 6th Avenue South-West Calgary, Alberta T2P 3E3
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. Hazards identification

Physical state	: Stringy smooth semi-solid.		
Odour	: Mild grease like.		
<b>OSHA/HCS status</b> : While this material is not considered hazardous by the OSHA Hazard Co Standard (29 CFR 1910.1200), this MSDS contains valuable information safe handling and proper use of the product. This MSDS should be retain available for employees and other users of this product.			
Emergency overview	: No specific hazard.		
Routes of entry	: Dermal contact. Eye contact. Inhalation. Ingestion.		
Potential acute health effe	ects		
Eyes	: Slightly irritating to the eyes.		
Skin	: Slightly irritating to the skin.		
Inhalation	: No known significant effects or critical hazards.		
Ingestion	: No known significant effects or critical hazards.		
Medical conditions aggravated by over- exposure	: Repeated or prolonged contact with spray or mist may produce chronic eye irritation and severe skin irritation. Repeated skin exposure can produce local skin destruction or dermatitis.		
Contexicological informat			

See toxicological information (section 11)

# 3. Composition/information on ingredients

#### <u>Name</u>

Mixture of severely hydrotreated and hydrocracked and/or solvent-refined base oil (petroleum).

CAS number Mixture <u>%</u>

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The base oil may be a mixture of the following CAS#s: 8042-47-5, 64741-95-3, 64742-01-4, 64742-46-7, 64742-47-8, 64742-54-7, 64742-55-8, 64742-62-7, 72623-83-7, 72623-84-8, 72623-85-9, 72623-86-0, 72623-87-1, 178603-64-0, 178603-65-1, 178603-66-2, 445411-73-4

4. First-aid measures				
Eye contact	: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.			
Skin contact	<ul> <li>Wash skin thoroughly with soap and water or use recognised skin cleanser. Get medical attention if irritation occurs. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse.</li> </ul>			
Inhalation	<ul> <li>If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.</li> </ul>			

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4. First-aid mea	sures
Ingestion	: Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If potentially dangerous quantities of this material have been swallowed, call a physician immediately.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
5. Fire-fighting	measures
Flammability of the product	: May be combustible at high temperature.
Products of combustion	: Carbon oxides (CO, CO2), nitrogen oxides (NOx), sulphur oxides (SOx), calcium oxides (CaOx), phosphorus compounds (POx), sulphur compounds (H2S), smoke and irritating vapours as products of incomplete combustion.
Extinguishing media	
Suitable	: Use an extinguishing agent suitable for the surrounding fire.
Not suitable	: None known.
Special exposure hazards	: In a fire or if heated, a pressure increase will occur and the container may burst.
	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Special remarks on fire hazards	: Low fire hazard. This material must be heated before ignition will occur.
Special remarks on	: Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or

## 6. Accidental release measures

sources of ignition.

Personal precautions	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).
Environmental precautions	: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods for cleaning up	: Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spill product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

## 7. Handling and storage

Handling

explosion hazards

: Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk. Evaporate the residue under a fume hood. Ground all equipment containing material. Do not breathe gas/fumes/vapour/spray. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles.

Storage

: Keep container tightly closed. Keep container in a cool, well-ventilated area. Store away from incompatible materials (see section 10).

# 8. Exposure controls/personal protection

### Product name

Mixture of severely hydrotreated and hydrocracked and/or solvent-refined base oil (petroleum).

## Exposure limits

#### ACGIH TLV (United States). Notes: (oil mist)

TWA: 5 mg/m<sup>3</sup> 8 hour(s). STEL: 10 mg/m<sup>3</sup> 15 minute(s).

#### Consult local authorities for acceptable exposure limits.

Engineering measures	: No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.
Personal protection	
Eyes	<ul> <li>Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.</li> </ul>
Skin	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory	: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Recommended: organic vapour filter
Hands	<ul> <li>Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.</li> <li>Recommended: neoprene, nitrile, polyvinyl alcohol (PVA), Viton.</li> </ul>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

# 9. Physical and chemical properties

Physical state	Stringy smooth semi-solid.	
Flash point	Mineral Oil Blend: Open cup: 290°C (554°F) (Cleveland.).	
Auto-ignition temperature	Mineral Oil Blend: Fire Point: 300°C (572°F)	
Flammable limits	Not available.	
Colour	Green.	
Odour	Mild grease like.	
рН	Not available.	
<b>Boiling/condensation point</b>	Not available.	
Pour Point	Mineral Oil Blend: -12°C (10°F)	
Melting/freezing point	Not available.	
Relative density	Mineral Oil Blend: 0.8893 kg/L @ 15°C (59°F)	
Vapour pressure	Not available.	
Vapour density	Not available.	
Volatility	Not available.	
Odour threshold	Not available.	
Evaporation rate	Not available.	
Viscosity	Mineral Oil Blend: 219.9 cSt @ 40°C (104°F), 17.9 cSt @ 100°C (212°F), VI=88	

# 9. Physical and chemical properties

Solubility	: Insoluble in water.
LogK <sub>ow</sub>	: Not available.
Softening Point	: Not available.
Dropping Point	: <b>EP1:</b> 307°C (585°F); <b>EP2:</b> 302°C (576°F)
Penetration	: EP1: 312 (60 strokes); EP2: 274 (60 strokes)
Physical/chemical properties comments	: Not available.

# 10 . Stability and reactivity

Stability and reactivity	: The product is stable.
Conditions of instability	: Not available.
Incompatibility with various substances	: Reactive with oxidising agents, acids, reducing agents and alkalis.
Hazardous decomposition products	: May release COx, NOx, SOx, H2S, diphenylamine, alkenes, ammonia, smoke and irritating vapours when heated to decomposition.
Hazardous polymerisation	: Under normal conditions of storage and use, hazardous polymerisation will not occur.

# 11. Toxicological information

<u>Toxicity data</u>						
Product/ingredient name Mixture of severely hydrotreated and hydrocracked and/or solvent refined base oil (petroleum).	Test LD50 - LD50 LC50	Result >5000 mg/kg >2000 mg/kg >2500 mg/m³ (4 hours)	Route Oral Dermal Inhalation	<mark>Species</mark> Rat Rabbit Rat		
Specific effects						
Carcinogenic effects	Not listed as o	arcinogenic by OSHA,	NTP or IARC.			
Mutagenic effects	No known sig	No known significant effects or critical hazards.				
Teratogenicity / Reproductive toxicity	No known significant effects or critical hazards.					
Sensitisation						
Ingestion	No known sig	nificant effects or critica	al hazards.			
Inhalation	No known significant effects or critical hazards.					
Eyes	Slightly irritating to the eyes.					
Skin	Slightly irritati	ng to the skin.				
Synergistic products	Not available.					

# 12. Ecological information

Ecotoxicity data				
Product/ingredient name	<u>Species</u>	<u>Period</u>	<u>Result</u>	
Environmental precautions	: No known significant eff	ects or critical hazards.		
<b>Bioconcentration factor</b>	Not available.			
BOD and COD	Not available.			
Biodegradable/OECD	Not available.			
Mobility	Not available.			
Special remarks on the products of biodegradation	Not available.			

## 13. Disposal considerations

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

#### Waste disposal

: The generation of waste should be avoided or minimised wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## 14. Transport information

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Regulatory information	UN number	Proper shipping name	Class	PG*	Label	Additional information
TDG Classification	Not regulated.	-	-	-		-
DOT Classification	Not available.	Not available.	Not available.	-		-

PG\* : Packing group

## 15. Regulatory information

## United States

HCS Classification	: Not regulated.	
<u>Canada</u>		
WHMIS (Canada)	: Not controlled under WHMIS (Canada).	
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.		
Ell regulations		

#### **EU regulations**

Risk phrases	: This product is not classified according to EU legislation.
International regulations	
International lists	
Canada inventory status	: Listed
CHINA INVENTORY (IECS)	: Listed
EC INVENTORY (EINECS/ELINC	S) : Listed
TSCA 8(b) inventory	: Listed

## 16. Other information

Hazardous Material	:	Health
Information System (U.S.A.)		Fire hazard

Health	
Fire hazard	
Reactivity	
Personal protection	

# 16. Other information

National Fire Protection	Flammability
Association (U.S.A.)	Health 1 0 Instability
	Special
References	: Available upon request. TMMC Marque de commerce de Petro-Canada - Trademark
Date of printing	: 11/20/2008.
Date of issue	: 9/15/2008.
Date of previous issue	: 7/20/2006.
Responsible name	: Product Safety - JDW
Version	: 4
For Copy of (M)SDS	: 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:
	Internet: lubricants.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: 1-800-201-6285
	For Product Safety Information: (905) 804-4752

### Notice to reader

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.