HYDREX TM/MC AW 46

000003000469

Version 6.1

Revision Date 2024/02/14



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SECTION 1. IDENTIFICATION

Product name	HYDREX TM/MC AW 46
Product code :	HDXAW46CQR, HDXAW46C4R, HDXAW46P18, HDXAW46P5R, HDXAW46P20, HDXAW46ICT, HDXAW46IBC, HDXAW46DRR, HDXAW46DRM, HDXAW46DCT, HDXAW46, HDXAW46BLK
Manufacturer or supplier's de	tails
	Petro-Canada America Lubricants LLC 2828 N. Harwood St., Suite 1300
	Dallas TX 75201
	United States
Telephone :	1-214-871-3555
Emergency telephone numbe	r
Emergency telephone num- : ber	CHEMTREC: 1-800-424-9300; Reison Control Contro: Consult local telephone directory for
Del	Poison Control Centre: Consult local telephone directory for emergency number(s).
Recommended use of the che	micel and restrictions on use
Recommended use :	These products are designed for use as heavy duty hydraulic power transmission fluids and for lubrication where good anti- wear and anti-oxidation properties are required. They would typically be used in high-pressure hydraulic systems, machine tools, presses, compressors, pumps, gear sets, and central- ized bearing lubrication systems.
Prepared by	Product Safety: +1 905-491-0565

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a hazardous substance or mixture.

GHS label elements

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required

Other hazards

None known.

IARC	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or con- firmed human carcinogen by IARC.
OSHA	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based; Baseoil — unspecified	72623-87-1	70 - 90
Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil — unspeci- fied	64742-54-7	70 - 90
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, high- viscosity; Baseoil — unspecified	72623-85-9	10 - 20
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; Baseoil — unspecified	72623-86-0	10 - 20
2,6-di-tert-butylphenol	128-39-2	0.1 - 1

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

If inhaled	:	Move to fresh air. Artificial respiration and/or oxygen may be necessary. Seek medical advice.
In case of skin contact	:	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Wash clothing before reuse. Seek medical advice.
In case of eye contact	:	Remove contact lenses. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.
If swallowed	:	Rinse mouth with water. DO NOT induce vomiting unless directed to do so by a physi- cian or poison control center. Never give anything by mouth to an unconscious person. Seek medical advice.
Most important symptoms and effects, both acute and delayed	:	First aider needs to protect himself.
Notes to physician	:	Treat symptomatically.



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SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment.
Unsuitable extinguishing media	:	No information available.
Specific hazards during fire- fighting	:	Cool closed containers exposed to fire with water spray.
Hazardous combustion prod- ucts	:	Carbon oxides (CO, CO2), nitrogen oxides (NOx), sulphur oxides (SOx), aldehydes, smoke and irritating vapours as products of incomplete combustion.
Further information	:	Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- : tive equipment and emer- gency procedures	Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas. Material can create slippery conditions. Mark the contaminated area with signs and prevent access to unauthorized personnel. Only qualified personnel equipped with suitable protective equipment may intervene.
Environmental precautions :	Do not allow uncontrolled discharge of product into the envi- ronment.
Methods and materials for : containment and cleaning up	Prevent further leakage or spillage if safe to do so. Remove all sources of ignition. Soak up with inert absorbent material. Non-sparking tools should be used. Ensure adequate ventilation. Contact the proper local authorities.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	None known.
Advice on safe handling	:	For personal protection see section 8. Smoking, eating and drinking should be prohibited in the ap- plication area. Use only with adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Keep away from heat and sources of ignition. Keep container closed when not in use.

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Conditions for safe storage	 Store in original container. Containers which are opened must kept upright to prevent leakage. Keep in a dry, cool and well-ventil Keep in properly labelled contained To maintain product quality, do not light. 	ated place. ers.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Distillates (petroleum), hy- drotreated heavy paraffinic; Baseoil — unspecified	64742-54-7	TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Inhal- able particu- late matter)	5 mg/m3	ACGIH
		TWA (Mist)	5 mg/m3	OSHA P0
		TWA (Mist)	5 mg/m3	NIOSH REL
		ST (Mist)	10 mg/m3	NIOSH REL
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based; Baseoil — unspeci- fied	72623-87-1	TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Inhal- able particu- late matter)	5 mg/m3	ACGIH
		TWA (Mist)	5 mg/m3	OSHA P0
		TWA (Mist)	5 mg/m3	NIOSH REL
		ST (Mist)	10 mg/m3	NIOSH REL
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, high-viscosity; Baseoil — unspecified	72623-85-9	TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Inhal-	5 mg/m3	ACGIH
		able particu-		
		late matter)		
		TWA (Mist)	5 mg/m3	OSHA P0
		TWA (Mist)	5 mg/m3	NIOSH REL
		ST (Mist)	10 mg/m3	NIOSH REL
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; Baseoil — unspeci- fied	72623-86-0	TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Inhal- able particu- late matter)	5 mg/m3	ACGIH
		TWA (Mist)	5 mg/m3	OSHA P0
		TWA (Mist)	5 mg/m3	NIOSH REL
		ST (Mist)	10 mg/m3	NIOSH REL

Engineering measures : No Internet: www.petrocanadalubricants.com/sds Trademarks are owned or used under license.

: No special ventilation requirements. Good general ventilation s.com/sds Page: 4 / 11

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		should be sufficient to control worker e contaminants.	exposure to airborne
Personal protective equipme	ent		
Respiratory protection	:	Use respiratory protection unless adec ventilation is provided or exposure ass that exposures are within recommende Respirator selection must be based or exposure levels, the hazards of the pro- working limits of the selected respirator	essment demonstrates ed exposure guidelines. In known or anticipated oduct and the safe
Filter type	:	organic vapour filter	
Hand protection Material	:	neoprene, nitrile, polyvinyl alcohol (PV	A), Viton [®] .
Remarks	:	Chemical-resistant, impervious gloves approved standard should be worn at chemical products if a risk assessmen essary.	all times when handling
Eye protection	:	Wear face-shield and protective suit for problems.	r abnormal processing
Skin and body protection	:	Choose body protection in relation to in tration and amount of dangerous subs cific work-place.	
Protective measures	:	Wash contaminated clothing before re	-use.
Hygiene measures	:	Remove and wash contaminated cloth ing the inside, before re-use. Wash face, hands and any exposed sl handling.	

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: viscous liquid
Colour	: Pale, straw-yellow.
Odour	: Mild petroleum oil like.
Odour Threshold	: No data available
рН	: No data available
Pour point	: -39 °C (-38 °F)
Boiling point/boiling range	: No data available
Flash point	: 236 °C (457 °F) Method: Cleveland open cup



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Fire Point	:	No data available	
Evaporation rate	:	No data available	
Flammability	:	Remarks: Low fire hazard. This materion fore ignition will occur.	al must be heated be-
Auto-Ignition Temperature	:	No data available	
Upper explosion limit / Upper flammability limit	:	No data available	
Lower explosion limit / Lower flammability limit	:	No data available	
Vapour pressure	:	No data available	
Relative vapour density	:	No data available	
Relative density	:	No data available	
Density	:	0.8660 kg/l (59 °F / 15 °C)	
Solubility(ies) Water solubility	:	insoluble	
Partition coefficient: n- octanol/water	:	No data available	
Decomposition temperature	:	No data available	
Viscosity Viscosity, kinematic	:	46.4 cSt (104 °F / 40 °C)	
		6.9 cSt (212 °F / 100 °C)	
Explosive properties	:	Do not pressurize, cut, weld, braze, so pose containers to heat or sources of	

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac- tions	:	Hazardous polymerisation does not occur. Stable under normal conditions.
Conditions to avoid	:	No data available
Incompatible materials	:	Reactive with oxidising agents, reducing agents and acids.
Hazardous decomposition products	:	May release COx, NOx, SOx, POx, H2S, metal oxides, meth- acrylate monomers, smoke and irritating vapours when heated to decomposition.

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SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely route	s of	exposure
Ingestion Inhalation Skin contact		
Acute toxicity Not classified due to lack of	data.	
Product:		
Acute oral toxicity	:	Remarks: No data available
Acute inhalation toxicity	:	Assessment: The substance or mixture has no acute inhala- tion toxicity Remarks: No data available
Acute dermal toxicity	:	Assessment: The substance or mixture has no acute dermal toxicity Remarks: No data available
Components:		
	n), C2	20-50, hydrotreated neutral oil-based; Baseoil — unspeci-
Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg,
Acute inhalation toxicity	:	LC50 (Rat): > 5.2 mg/l Exposure time: 4 h Test atmosphere: dust/mist
Acute dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg,
Distillates (petroleum), hyd	drotr	eated heavy paraffinic; Baseoil — unspecified:
Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg,
Acute dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg,
	n), C	20-50, hydrotreated neutral oil-based, high-viscosity;
Baseoil — unspecified: Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg,
Acute inhalation toxicity	:	LC50 (Rat): > 5.2 mg/l Exposure time: 4 h Test atmosphere: dust/mist
Acute dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg,
Lubricating oils (petroleun fied:	n), C′	15-30, hydrotreated neutral oil-based; Baseoil — unspeci-
Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg,
Acute inhalation toxicity	:	LC50 (Rat): > 5.2 mg/l Exposure time: 4 h Test atmosphere: dust/mist

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Acute dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg,	
2,6-di-tert-butylphenol: Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg,	
Acute dermal toxicity	:	LD50 (Rabbit): > 10,000 mg/kg,	
Skin corrosion/irritation Not classified due to lack of	data		
<u>Product:</u> Remarks	:	No data available	
Serious eye damage/eye in Not classified due to lack of			
<u>Product:</u> Remarks	:	No data available	
Respiratory or skin sensit	isatio	on	
Skin sensitisation Not classified due to lack of	data		
Respiratory sensitisation Not classified due to lack of	data		
Germ cell mutagenicity Not classified due to lack of	data		
Carcinogenicity Not classified due to lack of	data		
Reproductive toxicity Not classified due to lack of	data		
STOT - single exposure Not classified due to lack of	data		
STOT - repeated exposure Not classified due to lack of			
Aspiration toxicity Not classified due to lack of	data		
ECTION 12. ECOLOGICAL IN	FORI	MATION	
Ecotoxicity			

Product:

Toxicity to fish	:	Remarks: No data available
Toxicity to daphnia and other aquatic invertebrates	:	Remarks: No data available
Toxicity to algae/aquatic Internet: www.petrocanadalubricants.co		Remarks: No data available ^{sds}

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plants		
Toxicity to microorganisms	: Remarks: No data available	
Persistence and degradability	y	
<u>Product:</u> Biodegradability	: Remarks: No data available	
Bioaccumulative potential No data available		
Mobility in soil No data available		
Other adverse effects No data available		
SECTION 13 DISPOSAL CONSID	EPATIONS	

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues	 The product should not be allowed to enter drains, water courses or the soil. Offer surplus and non-recyclable solutions to a licensed disposal company. Waste must be classified and labelled prior to recycling or disposal. Send to a licensed waste management company. Dispose of product residue in accordance with the instructions of the person responsible for waste disposal.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

National Regulations

49 CFR Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

California Prop. 65

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov. The chemicals include:

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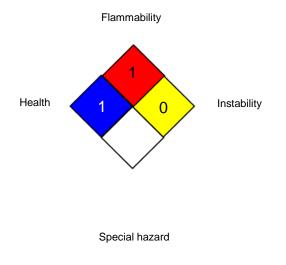


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ethyle	ene oxide	75-2 <i>°</i>	1-8
The components of t	his produc	t are reported in the following in	ventories:
DSL	:	On the inventory, or in compliance	with the inventory
TSCA	:	All chemical substances in this pro TSCA Inventory or are in compliar exemption.	
IECSC	:	On the inventory, or in compliance	with the inventory

SECTION 16. OTHER INFORMATION

Further information

NFPA 704:



HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations

ACGIH NIOSH REL OSHA P0	:	USA. ACGIH Threshold Limit Values (TLV) USA. NIOSH Recommended Exposure Limits USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim- its for Air Contaminants
ACGIH / TWA	:	8-hour, time-weighted average
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / ST	:	STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
OSHA P0 / TWA OSHA Z-1 / TWA		8-hour time weighted average 8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic

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Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association: IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI -Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ -Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Con-

(; UNRTDG - United Nations Recommendations on ery Persistent and Very Bioaccumulative

For Copy of SDS	:	Internet: www.petrocanadalubricants.com/sds United States, telephone: 1-800-268-5850; fax: 1-800-201- 6285 For Product Safety Information: 1 905-491-0565
Prepared by	:	Product Safety: +1 905-491-0565
Revision Date Date format	:	2024/02/14 yyyy/mm/dd

The information is considered as correct, but not exhaustive, and will be used only as a guide, which is based in the current knowledge of the substance or mixture, and is applicable to proper safety precautions for the product.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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