HYDREX TM/MC AW 46

000003000469

Version 5.1



Print Date 2022/07/12

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	eta	ails		
		Petro-Canada America Lubricants LLC 2828 N. Harwood St., Suite 1300 Dallas TX 75201 United States		
Telephone	:	1-214-871-3555		
Emergency telephone number				
Emergency telephone number	:	CHEMTREC: 1-800-424-9300; Poison Control Centre: Consult local telephone directory for emergency number(s).		
Recommended use of the ch	en	nical 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 centralized 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

Not a hazardous substance or mixture.

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 confirmed 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.

HYDREX ^{™/MC} AW 46

000003000469

Version 5.1

Revision Date 2022/07/12

Print Date 2022/07/12

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

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

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media :

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.



HYDREX TM/MC AW 46

000003000469



Version 5.1		Revision Date 2022/07/12	Print Date 2022/07/12
Unsuitable extinguishing media	:	No information available.	
Specific hazards during firefighting	:	Cool closed containers exposed t	o fire with water spray.
Hazardous combustion products	:	Carbon oxides (CO, CO2), nitrogo oxides (SOx), smoke and irritating incomplete combustion.	
Further information	:	Prevent fire extinguishing water fr water or the ground water system	0

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency 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 environment.
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 application 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.
Conditions for safe storage	:	Store in original container. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep in a dry, cool and well-ventilated place.

HYDREX ^{™/MC} AW 46

000003000469



Version 5.1

Revision Date 2022/07/12

Print Date 2022/07/12

Keep in properly labelled containers. To maintain product quality, do not store in heat or direct sunlight.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based; Baseoil — unspecified	72623-87-1	TWA (Inhalable particulate matter)	5 mg/m3	ACGIH
		TWA (Mist)	5 mg/m3	OSHA Z-1
		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 (Inhalable particulate matter)	5 mg/m3	ACGIH
		TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Mist)	5 mg/m3	OSHA P0
		TWA (Mist)	5 mg/m3	NIOSH REL
		ST (Mist)	10 mg/m3	NIOSH REL
Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil — unspecified	64742-54-7	TWA (Inhalable particulate matter)	5 mg/m3	ACGIH
		TWA (Mist)	5 mg/m3	OSHA Z-1
		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 — unspecified	72623-86-0	TWA (Inhalable particulate matter)	5 mg/m3	ACGIH
		TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Mist)	5 mg/m3	OSHA P0
		TWA (Mist)	5 mg/m3	NIOSH REL
		ST (Mist)	10 mg/m3	NIOSH REL

Engineering measures

No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Personal protective equipment

:

:

Respiratory protection

Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe

HYDREX ^{™/MC} AW 46

000003000469



Version 5.1		Revision Date 2022/07/12	Print Date 2022/07/12
		working limits of the selected respirato	r.
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 a chemical products if a risk assessment necessary.	all times when handling
Eye protection	:	Wear face-shield and protective suit fo problems.	r abnormal processing
Skin and body protection	:	Choose body protection in relation to it concentration and amount of dangerou the specific work-place.	
Protective measures	:	Wash contaminated clothing before re-	-use.
Hygiene measures	:	Remove and wash contaminated cloth including the inside, before re-use. Wash face, hands and any exposed sk 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 Boiling point/boiling range	:	-39 °C (-38 °F) No data available
	Flash point	:	236 °C (457 °F) Method: Cleveland open cup
	Fire Point	:	No data available
	Evaporation rate	:	No data available
	Flammability	:	Low fire hazard. This material must be heated before ignition will occur.
	Auto-Ignition Temperature	:	No data available
	Upper explosion limit / Upper flammability limit	:	No data available
lı T	nternet: lubricants.petro-canada.com/s	sds	Page: 5 /

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HYDREX TM/MC AW 46

000003000469



000003000469		
Version 5.1	Revision Date 2022/07/12 Print Date 2022	:/07/12
Lower explosion limit / Lower	: No data available	
flammability limit		
Vapour pressure	: No data available	
Relative vapour density	: No data available	
Relative density	: No data available	
Density	: 0.8660 kg/l (15 °C / 59 °F)	
Solubility(ies)		
Water solubility	: insoluble	
Partition coefficient: n- octanol/water	: No data available	
Decomposition temperature	: No data available	
Viscosity Viscosity, kinematic	: 46.4 cSt (40 °C / 104 °F)	
	6.9 cSt (100 °C / 212 °F)	
Explosive properties	: Do not pressurize, cut, weld, braze, solder, drill, grind o expose containers to heat or sources of ignition.	r

SECTION 10. STABILITY AND REACTIVITY

Possibility of hazardous reactions	:	Hazardous polymerisation does not occur. Stable under normal conditions.
Conditions to avoid	:	No data available
Incompatible materials	:	Reactive with oxidising agents and reducing agents.
Hazardous decomposition products	:	May release COx, NOx, SOx, POx, H2S, metal oxides, methacrylate monomers, smoke and irritating vapours when heated to decomposition.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely route Eye contact Ingestion Inhalation Skin contact	es of exposure
Acute toxicity	
<u>Product:</u> Acute oral toxicity	: Remarks: No data available
Acute inhalation toxicity	: Assessment: The substance or mixture has no acute inhalation toxicity

HYDREX TM/MC AW 46

000003000469



sion 5.1		Revision Date 2022/07/12	Print Date 2022/0
		Remarks: No data available	
Acute dermal toxicity	:	Assessment: The substance or mix toxicity	xture has no acute derm
		Remarks: No data available	
Components:			
Lubricating oils (petroleur unspecified:	n), C	20-50, hydrotreated neutral oil-bas	sed; Baseoil —
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,	
	n), C	20-50, hydrotreated neutral oil-ba	sed, 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,	
Distillates (petroleum), hy Acute oral toxicity		eated heavy paraffinic; Baseoil — LD50 (Rat): > 5,000 mg/kg,	unspecified:
Acute dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg,	
	n), C [.]	15-30, hydrotreated neutral oil-ba	sed; 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,	
Skin corrosion/irritation			
Product:			
Remarks	:	No data available	
Serious eye damage/eye i	rritati	on	
Product:			
Remarks	:	No data available	

HYDREX ^{™/MC} AW 46

000003000469

Version 5.1



Print Date 2022/07/12

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

STOT - single exposure

No data available

STOT - repeated exposure

No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish	:	Remarks: No data available
Toxicity to daphnia and other aquatic invertebrates	:	Remarks: No data available
Toxicity to algae/aquatic plants	:	Remarks: No data available
Toxicity to microorganisms	:	Remarks: No data available
Persistence and degradabilit		
Feisistence and degradabilit	ſy	
Product:	ſy	
-	נ ע :	Remarks: No data available
Product:	-	Remarks: No data available
Product: Biodegradability	-	Remarks: No data available
Product: Biodegradability Bioaccumulative potential	-	Remarks: No data available

Other adverse effects

No data available

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.

HYDREX ^{™/MC} AW 46

000003000469

Version 5.1

Revision Date 2022/07/12

Print Date 2022/07/12

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 ethylene oxide	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: 75-21-8
The components of this produc	ct are reported in the following inventories:
DSL :	On the inventory, or in compliance with the inventory
TSCA :	All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.
IECSC :	On the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION

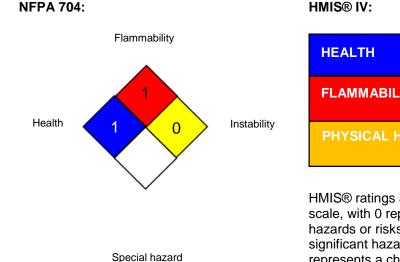
Further information



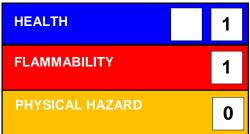
HYDREX ^{™/MC} AW 46

000003000469

Version 5.1



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		USA. ACGIH Threshold Limit Values (TLV) USA. NIOSH Recommended Exposure Limits
OSHA P0	:	USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits 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	:	8-hour time weighted average
OSHA Z-1 / TWA		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 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

HYDREX ^{™/MC} AW 46

000003000469

Version 5.1

Revision Date 2022/07/12

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 Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

For Copy of SDS	:	Internet: lubricants.petro-canada.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	:	2022/07/12 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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Print Date 2022/07/12