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Version 2.7

Revision Date 2022/07/12

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### **SECTION 1. IDENTIFICATION**

Product name :	ENVIRON TM/MC MV R 32
Product code :	ENMVR32P20, ENMVR32DRM, ENMVR32DCT, ENMVR32IBC, ENMVR32BLK, ENMVR32
Manufacturer or supplier's def Telephone :	ails Petro-Canada America Lubricants LLC 2828 N. Harwood St., Suite 1300 Dallas TX 75201 United States 1-214-871-3555
Emergency telephone number	r
Emergency telephone : number	CHEMTREC: 1-800-424-9300; Poison Control Centre: Consult local telephone directory for emergency number(s).
Recommended use of the che	mical and restrictions on use
Recommended use :	ENVIRON MV R is Readily Biodegradable and non-toxic, using an ashless additive system free of zinc and other heavy metals, and as such, it is especially suitable for use in environmentally sensitive areas. ENVIRON MV R is designed as a heavy duty hydraulic power transmission fluid for use in equipment which must operate over a wide range of temperatures. Typically, ENVIRON MV R Fluids are used in hydraulic systems, machine tools, hydraulic presses, rotary compressors, and centrifugal pumps.
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.

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### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Components

CAS-No.	Concentration (% w/w)
72623-86-0	50 - 70
72623-87-1	30 - 50
128-39-2	0.1 - 1
	72623-86-0 72623-87-1

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.
	Unsuitable extinguishing media	:	No information available.
	Specific hazards during	:	Cool closed containers exposed to fire with water spray.
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firefighting			
Hazardous combustion products	:	Carbon oxides (CO, CO2), sulphur oxi sulphide (H2S), alkyl mercaptans, sulfi irritating vapours as products of incom	ides, smoke and
Further information	:	Prevent fire extinguishing water from c water or the ground water system.	ontaminating surface

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

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### 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), 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
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

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 working limits of the selected respirator.
Filter type	:	organic vapour filter
Hand protection Material	:	neoprene, nitrile, polyvinyl alcohol (PVA), Viton <sup>®</sup> .
Remarks	:	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.
Eye protection	:	Wear face-shield and protective suit for abnormal processing problems.
Skin and body protection	:	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.
Protective measures	:	Wash contaminated clothing before re-use.



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Hygiene measures	:	Remove and wash contaminated cloth including the inside, before re-use. Wash face, hands and any exposed sh handling.	0 0 /

### 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	:	-48 °C (-54 °F) No data available
Flash point	:	239 °C (462 °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
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	:	0.8410 kg/l (15 °C / 59 °F)
Solubility(ies)		
Water solubility	:	insoluble
Partition coefficient: n- octanol/water	:	No data available
Viscosity Viscosity, kinematic	:	32.5 cSt (40 °C / 104 °F)
		6.6 cSt (100 °C / 212 °F)

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Explosive properties	: Do not pressurize, cut, weld, braze expose containers to heat or source		
SECTION 10. STABILITY AND REACTIVITY			

#### Possibility of hazardous : Hazardous polymerisation does not occur. Stable under normal conditions. reactions Conditions to avoid : No data available Reactive with oxidising agents, reducing agents and acids. Incompatible materials : Hazardous decomposition May release COx, SOx, POx, H2S, sulfides, alkyl mercaptans, 2 methacrylate monomers, alkenes, diphenylamine, smoke and products irritating vapours when heated to decomposition.

### SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure Eye contact Ingestion Inhalation Skin contact			
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 Remarks: No data available	
Acute dermal toxicity	:	Assessment: The substance or mixture has no acute dermal toxicity Remarks: No data available	
<u>Components:</u> Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; 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 (petroleum), C20-50, hydrotreated neutral oil-based; Baseoil — unspecified:			
Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg,	
Acute inhalation toxicity	:	LC50 (Rat): > 5.2 mg/l	

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		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 irri	itati	on	
Product:			
Remarks	:	No data available	
Respiratory or skin sensitis	atio	on	
No data available			
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			
CTION 12. ECOLOGICAL INFO	ORI	MATION	
Ecotoxicity			
Product:			
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rain Exposure time: 96 h Method: OECD Test Guideline 203	
		NOEC (Fish): > 100 mg/l Exposure time: 28 Days	
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea Exposure time: 48 h Method: OECD Test Guideline 20	

NOEC (Daphnia (water flea)): > 20 mg/l Exposure time: 21 Days

Toxicity to algae/aquatic Internet: lubricants.petro-canada.com/sds Trademarks are owned or used under license.

:

EC50 (Pseudokirchneriella subcapitata (algae)): > 9,000



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plants		mg/IExposure time: 72 h Method: OECD Test Guideline 201	
		NOEC (Pseudokirchneriella subcar mg/IExposure time: 72 h Remarks: No toxicity at the limit of	
Toxicity to microorganisms	:	Remarks: No data available	
Persistence and degradability			
Product:			
Biodegradability	:	Result: Readily biodegradable.	
Bioaccumulative potential			
No data available			
Mobility in soil			
No data available			
Other adverse effects			
No data available			

### **Disposal methods**

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

### **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

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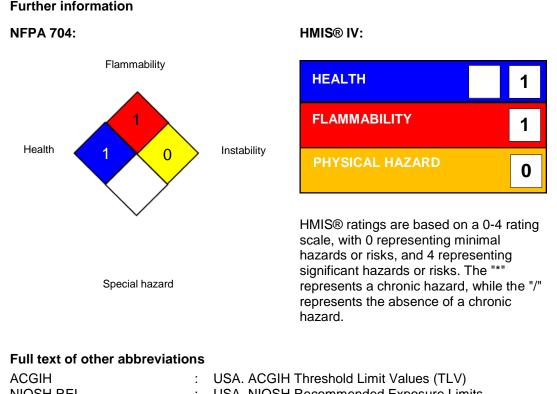
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### **SECTION 15. REGULATORY INFORMATION**

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 product 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	
NZIoC :	On the inventory, or in compliance with the inventory	
:	HSNO: HSR002605, Lubricants (Low Hazard) Group Standard 2020	

### **SECTION 16. OTHER INFORMATION**



:	USA. ACGIH Threshold Limit Values (TLV)
:	USA. NIOSH Recommended Exposure Limits
:	USA. Table Z-1-A Limits for Air Contaminants (1989 vacated
	values)
:	USA. Occupational Exposure Limits (OSHA) - Table Z-1
	:



Further information

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	Limits for Air Contaminants	
ACGIH / TWA	: 8-hour, time-weighted average	
NIOSH REL / TWA	: Time-weighted average concentr workday during a 40-hour workw	
NIOSH REL / ST	: STEL - 15-minute TWA exposure at any time during a workday	e that should not be exceeded
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 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

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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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