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# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier	
Product name :	ENVIRON TM/MC MV R 32
Product code :	ENMVR32P20, ENMVR32DRM, ENMVR32DCT, ENMVR32IBC, ENMVR32BLK, ENMVR32
1.2 Relevant identified uses of the s	substance or mixture and uses advised against
Use of the Sub- : stance/Mixture	ENVIRON MV R is Readily Biodegradable and non-toxic, us- ing an ashless additive system free of zinc and other heavy metals, and as such, it is especially suitable for use in envi- ronmentally 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 tempera- tures. Typically, ENVIRON MV R Fluids are used in hydraulic systems, machine tools, hydraulic presses, rotary compres- sors, and centrifugal pumps.

## 1.3 Details of the supplier of the safety data sheet

Manufacturer or supplier's details

Telephone	:	HollyFrontier LSP Europe BV Mainhavenweg 6 1043 AL Amsterdam The Netherlands +31 (0)85 4000080
E-mail address of person responsible for the SDS	:	EUSDS@hfsinclair.com, REACH Only Representative (OR): INTERTEK FRANCE Allée de la Fosse Moret Eco parc 2 27400 Heudebouville France Phone number : +33 2 79 23 03 49 Email address: if.reach@intertek.com

## 1.4 Emergency telephone number

Emergency telephone num-	:	CHEMTREC: +1-703-741-5970;
ber		Poison Control Centre: Consult local telephone directory for
		emergency number(s).



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## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

#### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

#### **Additional Labelling**

EUH210 Safety data sheet available on request.

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

#### Components

Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
	Index-No.		
	Registration number		
Lubricating oils (petroleum), C15-	72623-86-0	Asp. Tox. 1; H304	50 - 70
30, hydrotreated neutral oil-based;	276-737-9		
Baseoil — unspecified	649-482-00-X		

For explanation of abbreviations see section 16.

### **SECTION 4: First aid measures**

#### 4.1 Description of 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

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	for at least 15 minute and shoes. Wash skin thoroughl skin cleanser. Wash clothing before Seek medical advice	y with soap and wat e reuse.	ontaminated clothing ter or use recognized
In case of eye contact	Remove contact lens Rinse immediately w for at least 15 minute Obtain medical atten	ith plenty of water, a	also under the eyelids,
If swallowed	Rinse mouth with wa DO NOT induce vom cian or poison contro Never give anything Seek medical advice	niting unless directed of center. by mouth to an unc	d to do so by a physi- onscious person.
.2 Most important symptoms a	effects. both acute ar	nd delaved	
Risks	First aider needs to p edical attention and sp Treat symptomatical	pecial treatment ne	eeded
Risks .3 Indication of any immediate Treatment	edical attention and sp Treat symptomatical	pecial treatment ne	eeded
Risks .3 Indication of any immediate Treatment SECTION 5: Firefighting mea	edical attention and sp Treat symptomatical	pecial treatment ne	eded
Risks <b>3 Indication of any immediate</b> Treatment <b>ECTION 5: Firefighting mea</b> <b>1 Extinguishing media</b>	edical attention and sp Treat symptomatical	becial treatment ne	
Risks <b>3 Indication of any immediate</b> Treatment <b>ECTION 5: Firefighting mea</b>	edical attention and sp Treat symptomatical	becial treatment ne	propriate to local cir-
Risks .3 Indication of any immediate Treatment SECTION 5: Firefighting mea .1 Extinguishing media	edical attention and sp Treat symptomatical res Use extinguishing m	easures that are ap surrounding enviror	propriate to local cir-
Risks .3 Indication of any immediate Treatment SECTION 5: Firefighting mea .1 Extinguishing media Suitable extinguishing media Unsuitable extinguishing	edical attention and sp Treat symptomatical rres Use extinguishing ma cumstances and the No information availa	easures that are ap surrounding enviror	propriate to local cir-
Risks .3 Indication of any immediate Treatment SECTION 5: Firefighting mea .1 Extinguishing media Suitable extinguishing media Unsuitable extinguishing media	edical attention and sp Treat symptomatical rres Use extinguishing ma cumstances and the No information availa	pecial treatment ne ly. easures that are ap surrounding environ able. <b>re</b>	propriate to local cir- nment.
Risks .3 Indication of any immediate Treatment SECTION 5: Firefighting mea .1 Extinguishing media Suitable extinguishing media Unsuitable extinguishing media .2 Special hazards arising from Specific hazards during fire-	edical attention and sp Treat symptomatical res Use extinguishing ma cumstances and the No information availa ne substance or mixtu Cool closed containe Carbon oxides (CO,	easures that are ap surrounding environ able. <b>re</b> ers exposed to fire w CO2), sulphur oxide mercaptans, sulfide	propriate to local cir- nment. vith water spray. es (SOx), hydrogen es, smoke and irritat-
Risks .3 Indication of any immediate Treatment SECTION 5: Firefighting mea .1 Extinguishing media Suitable extinguishing media Unsuitable extinguishing media .2 Special hazards arising from Specific hazards during fire- fighting Hazardous combustion prod-	edical attention and sp Treat symptomatical res Use extinguishing ma cumstances and the No information availa ne substance or mixtu Cool closed containe Carbon oxides (CO, sulphide (H2S), alkyl	easures that are ap surrounding environ able. <b>re</b> ers exposed to fire w CO2), sulphur oxide mercaptans, sulfide	propriate to local cir- nment. vith water spray. es (SOx), hydrogen es, smoke and irritat-

# **SECTION 6: Accidental release measures**

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

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	Ensure adequate ventilation. Evacuate personnel to safe areas. Material can create slippery conditions. Mark the contaminated area with signs a unauthorized personnel. Only qualified personnel equipped with s equipment may intervene.	-
6.2 Environmental precautions Environmental precautions	Do not allow uncontrolled discharge of p ronment.	roduct into the envi-
6.3 Methods and material for conta	ainment and cleaning up	
Methods for cleaning up	<ul> <li>Prevent further leakage or spillage if safe to do so.</li> <li>Remove all sources of ignition.</li> <li>Soak up with inert absorbent material.</li> <li>Non-sparking tools should be used.</li> <li>Ensure adequate ventilation.</li> <li>Contact the proper local authorities.</li> </ul>	

## 6.4 Reference to other sections

For personal protection see section 8.

# **SECTION 7: Handling and storage**

## 7.1 Precautions for safe handling

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.
Advice on protection against fire and explosion	:	None known.
Hygiene measures	:	Remove and wash contaminated clothing and gloves, includ- ing the inside, before re-use. Wash face, hands and any ex- posed skin thoroughly after handling.
7.2 Conditions for safe storage,	incl	uding any incompatibilities

#### Requirements for storage areas and containers 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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## 7.3 Specific end use(s)

Specific use(s)

: No data available

### **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

8-hour TLV-TWA of 5 mg/m<sup>3</sup> recommended by manufacturer based on ACGIH TLV for mineral oil mists. Consult local authorities for acceptable exposure limits.

#### 8.2 Exposure controls

#### **Engineering measures**

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

### Personal protective equipment

Eye/face protection	:	Wear face-shield and protective suit for abnormal processing problems.
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.
Skin and body protection	:	Choose body protection in relation to its type, to the concen- tration and amount of dangerous substances, and to the spe- cific work-place.
Respiratory protection	:	Use respiratory protection unless adequate local exhaust ven- tilation 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 work- ing limits of the selected respirator.
Filter type	:	organic vapour filter
Protective measures	:	Wash contaminated clothing before re-use.

## **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

Physical state	: viscous liquid
Colour	: Pale, straw-yellow.
Odour	: Mild petroleum oil like.
Odour Threshold	: No data available





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Pour point	:	-48 °C	
Boiling point/boiling range	:	No data available	
Flash point	:	239 °C	
		Method: Cleveland open cup	
Fire Point	:	No data available	
Auto-Ignition Temperature	:	No data available	
Evaporation rate	:	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)	
Solubility(ies) Water solubility	:	insoluble	
Partition coefficient: n- octanol/water	:	No data available	
Viscosity Viscosity, kinematic	:	32.5 cSt (40 °C)	
		6.6 cSt (100 °C)	
Flammability	:	Low fire hazard. This material must be hea will occur.	ted before ignition
Explosive properties	:	Do not pressurize, cut, weld, braze, solder pose containers to heat or sources of igniti	

# 9.2 Other information

No data available

# **SECTION 10: Stability and reactivity**

# 10.1 Reactivity

No dangerous reaction known under conditions of normal use.



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<b>10.2 Chemical stability</b> Stable under normal conditions.					
10.3 Possibility of hazardous reactio	ns				
Hazardous reactions :	Hazardous polymerisation does not occur.S mal conditions.	Stable under nor-			
10.4 Conditions to avoid					
Conditions to avoid :	No data available				
10.5 Incompatible materials					
Materials to avoid :	Reactive with oxidising agents, reducing ag	ents and acids.			
10.6 Hazardous decomposition products					
Hazardous decomposition : products	May release COx, SOx, POx, H2S, sulfides methacrylate monomers, alkenes, diphenyl irritating vapours when heated to decompose	amine, smoke and			

# **SECTION 11: Toxicological information**

## 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Timornation on nazaru classes as defined in Regulation (EC) No 12/2/2000					
Information on likely routes of exposure	:	Eye contact Ingestion Inhalation Skin contact			
Acute toxicity					
Product:					
		Remarks: No data available			
Acute oral toxicity	•	Remarks. No uala avaliable			
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			
Skin corrosion/irritation					
Product:					

# Remarks

: No data available

## Serious eye damage/eye irritation

## Product:

: No data available

## Respiratory or skin sensitisation

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<b>Germ cell mutagenicity</b> No data available				
Carcinogenicity				
Product:				
Remarks :	All components listed in Annex VI to which and contained in the product, have been s less than 3% DMSO extractables as meas	shown to contain		
Reproductive toxicity				
No data available				
<b>STOT - single exposure</b> No data available				
STOT - repeated exposure				
No data available				
11.2 Information on other hazards				
Endocrine disrupting properties				
Product:				
Assessment :	The substance/mixture does not contain of ered to have endocrine disrupting propertion REACH Article 57(f) or Commission Delege (EU) 2017/2100 or Commission Regulation levels of 0.1% or higher.	ies according to gated regulation		

# **SECTION 12: Ecological information**

## 12.1 Toxicity

Product:		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 1,000 mg/l 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)): > 10,000 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
		NOEC (Daphnia (water flea)): > 20 mg/l Exposure time: 21 Days
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (algae)): > 9,000 mg/l Exposure time: 72 h Method: OECD Test Guideline 201



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	NOEC (Pseudokirchneriella subcap Exposure time: 72 h Remarks: No toxicity at the limit of s	
Toxicity to microorganisms	: Remarks: No data available	
12.2 Persistence and degradability	<b>V</b>	
Product:		
	: Result: Readily biodegradable.	
<b>12.3 Bioaccumulative potential</b> No data available		
12.4 Mobility in soil		
No data available		
12.5 Results of PBT and vPvB ass	essment	
Product:		
Assessment	<ul> <li>This substance/mixture contains not to be either persistent, bioaccumula very persistent and very bioaccumu 0.1% or higher.</li> </ul>	ative and toxic (PBT), or
12.6 Endocrine disrupting propert	ies	
Product:		
Assessment	<ul> <li>The substance/mixture does not co ered to have endocrine disrupting p REACH Article 57(f) or Commission (EU) 2017/2100 or Commission Re levels of 0.1% or higher.</li> </ul>	properties according to
12.7 Other adverse effects		
No data available		
SECTION 13: Disposal conside	rations	
13.1 Waste treatment methods		
Product	: The product should not be allowed	to enter drains, water

:	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.



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## **SECTION 14: Transport information**

14.1 UN number or ID number				
IMDG	:	Not regulated as a dangerous good		
ΙΑΤΑ	:	Not regulated as a dangerous good		
14.2 UN proper shipping name				
IMDG	:	Not regulated as a dangerous good		
ΙΑΤΑ	:	Not regulated as a dangerous good		
14.3 Transport hazard class(es)				
IMDG	:	Not regulated as a dangerous good		
ΙΑΤΑ	:	Not regulated as a dangerous good		
14.4 Packing group				
IMDG	:	Not regulated as a dangerous good		
IATA (Cargo)	:	Not regulated as a dangerous good		
IATA (Passenger)	:	Not regulated as a dangerous good		
14.5 Environmental hazards				
Not regulated as a dangerous good				
14.6 Special precautions for use Not applicable	r			
14.7 Maritime transport in bulk according to IMO instruments				
Remarks	:	ADR: Not Regulated		

# **SECTION 15: Regulatory information**

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

ADN: Not Regulated RID: Not Regulated

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
Regulation (EC) No 1005/2009 on substances that de- plete the ozone layer	:	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollu- tants (recast)	:	Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable

Water hazard class (Germa- : WGK 1 slightly hazardous to water ny)



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The components of this prod DSL	duc :	<b>ct are reported in the following inventories:</b> 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 Stand- ard 2020

#### 15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture.

:

#### **SECTION 16: Other information**

#### Full text of H-Statements

May be fatal if swallowed and enters airways.

#### Full text of other abbreviations

Asp. Tox. : Aspiration hazard

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; 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: GHS - Globally Harmonized System; GLP - Good Laboratory Practice: 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; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Re-



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striction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

#### **Further information**

For Copy of SDS	: Internet: lubricants.petro-canada.com/sds Europe, telephone: 00-800-7387-6000 For Product Safety Information: 1 905-491-0565

Prepared by : Product Safety: +1 905-491-0565

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