according to Regulation (EC) No. 1907/2006

# **ENVIRON TM/MC MV R 46**





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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 46

Product code : ENMVR46P20, ENMVR46DRM, ENMVR46DCT,

ENMVR46IBC, ENMVR46

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : ENVIRON MV R is Readily Biodegradable and non-toxic, usstance/Mixture ing 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 compres-

sors, and centrifugal pumps.

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

Manufacturer or supplier's details

HollyFrontier LSP Europe BV

Mainhavenweg 6 1043 AL Amsterdam The Netherlands Telephone : +31 (0)85 4000080

E-mail address of person responsible for the SDS

: EUSDS@hfsinclair.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).

#### **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**

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EUH210 Safety data sheet available on request.

#### 2.3 Other hazards

None known.

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

#### 3.2 Mixtures

#### Components

Chemical name	CAS-No. EC-No. Index-No.	Classification	Concentration (% w/w)
	Registration number		
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based;	72623-86-0	Asp. Tox. 1; H304	30 - 50
Baseoil — unspecified	276-737-9 649-482-00-X		
	01-2119474878-16- 0001		

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

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.

## 4.2 Most important symptoms and effects, both acute and delayed

Risks : First aider needs to protect himself.

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# 4.3 Indication of any immediate medical attention and special treatment needed

## **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

Unsuitable extinguishing

media

No information available.

#### 5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-

fighting

: Cool closed containers exposed to fire with water spray.

ucts

Hazardous combustion prod: Carbon oxides (CO, CO2), sulphur oxides (SOx), hydrogen

sulphide (H2S), alkyl mercaptans, sulfides, smoke and irritating vapours as products of incomplete combustion.

5.3 Advice for firefighters

Further information Prevent fire extinguishing water from contaminating surface

water or the ground water system.

#### **SECTION 6: Accidental release measures**

# 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions 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.

#### 6.2 Environmental precautions

Do not allow uncontrolled discharge of product into the envi-Environmental precautions

ronment.

# 6.3 Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so. Methods for cleaning up

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.

# 6.4 Reference to other sections

For personal protection see section 8.

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## **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, including 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.

## 7.3 Specific end use(s)

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

#### 8.1 Control parameters

# 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 protection : Wear face-shield and protective suit for abnormal processing

problems.

Hand protection

Material : neoprene, nitrile, polyvinyl alcohol (PVA), Viton®.

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 nec-

essary.

Skin and body protection : Choose body protection in relation to its type, to the concen-

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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

Pour point : -48 °C

Boiling point/boiling range : No data available

Flash point : 247 °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 : 0.8477 kg/l (15 °C)

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Solubility(ies)

Water solubility insoluble

Partition coefficient: n-

octanol/water

: No data available

Viscosity

Viscosity, kinematic : 44 cSt (40 °C)

8.2 cSt (100 °C)

Flammability : Low fire hazard. This material must be heated before ignition

will occur.

Explosive properties : Do not pressurize, cut, weld, braze, solder, drill, grind or ex-

pose containers to heat or sources of ignition.

9.2 Other information

No data available

**SECTION 10: Stability and reactivity** 

10.1 Reactivity

10.2 Chemical stability

10.3 Possibility of hazardous reactions

Hazardous reactions Hazardous polymerisation does not occur. Stable under nor-

mal conditions.

10.4 Conditions to avoid

: No data available Conditions to avoid

10.5 Incompatible materials

Materials to avoid : Reactive with oxidising agents, reducing agents and acids.

10.6 Hazardous decomposition products

Hazardous decomposition

products

May release COx, SOx, POx, H2S, sulfides, alkyl mercaptans, methacrylate monomers, alkenes, diphenylamine, smoke and

irritating vapours when heated to decomposition.

**SECTION 11: Toxicological information** 

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

Information on likely routes of:

exposure

Eye contact Inaestion Inhalation Skin contact

**Acute toxicity** 

Product:

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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:

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; Baseoil — unspeci-

fied:

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 irritation

**Product:** 

Remarks : No data available

## Respiratory or skin sensitisation

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

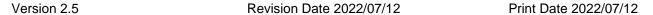
No data available

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## **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

NOEC (Pseudokirchneriella subcapitata (algae)): > 1 mg/l

Exposure time: 72 h

Remarks: No toxicity at the limit of solubility

Toxicity to microorganisms

Remarks: No data available

#### 12.2 Persistence and degradability

**Product:** 

Biodegradability : Result: Readily biodegradable.

#### 12.3 Bioaccumulative potential

No data available

# 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

Not relevant

## 12.6 Endocrine disrupting properties

No data available

#### 12.7 Other adverse effects

No data available

## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water

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courses or the soil.

Offer surplus and non-recyclable solutions to a licensed dis-

posal 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

Remarks ADR: Not Regulated

> ADN: Not Regulated RID: Not Regulated

### **SECTION 15: Regulatory information**

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

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

#### 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

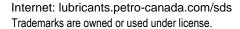
exemption.

**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 Stand-

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#### 15.2 Chemical safety assessment

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

**Full text of H-Statements** 

H304 : 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 Restriction 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

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 Internet: lubricants.petro-canada.com/sds

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