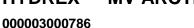
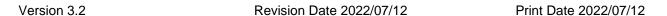
according to Regulation (EC) No. 1907/2006







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

1.1 Product identifier

Product name : HYDREX ™ MV ARCTIC 15

Product code : HDXAR15ICT, HDXAR15P5R, HDXAR15DRR,

> HDXAR15IBC, HDXAR15P20, HDXAR15DRM, HDXAR15DCT, HDXAR15, HDXAR15BLK

Unique Formula Identifier

(UFI)

: MUN2-1NDG-880E-TCXY

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

Use of the Sub-This product is a hydraulic oil that is formulated for outdoor stance/Mixture equipment that must function at very low temperatures.

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).

Please refer to Section 15 for the European Poison Center

Phone Numbers.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Aspiration hazard, Category 1 H304: May be fatal if swallowed and enters air-

ways.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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Hazard pictograms :



Signal word : Danger

Hazard statements : H304 May be fatal if swallowed and enters airways.

Precautionary statements : Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON

CENTER/ doctor.

P331 Do NOT induce vomiting.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

Hazardous components which must be listed on the label:

Distillates (petroleum), hydrotreated light paraffinic; Baseoil — unspecified Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; Baseoil — unspecified

2.3 Other hazards

None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Observations	OAO NI:	01:	0
Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
	Index-No.		
	Registration number		
Distillates (petroleum), hy-	64742-55-8	Asp. Tox. 1; H304	70 - 90
drotreated light paraffinic; Baseoil			
— unspecified	265-158-7		
	649-468-00-3		
	01-2119487077-29-		
	0036		
Lubricating oils (petroleum), C15-	72623-86-0	Asp. Tox. 1; H304	10 - 20
30, hydrotreated neutral oil-based;			
Baseoil — unspecified	276-737-9		
·	649-482-00-X		
	01-2119474878-16-		
	0001		
2,6-di-tert-butylphenol	128-39-2	Aquatic Acute 1;	0.1 - 0.25
		H400	
	204-884-0	Aquatic Chronic 1;	
		H410	
		Skin irr. 2; H315	

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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 eyes or 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.

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.

Hazardous combustion prod: :

ucts

Carbon oxides (CO, CO2), smoke and irritating vapours as

products of incomplete combustion.

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5.3 Advice for firefighters

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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

Environmental precautions : If the product contaminates rivers and lakes or drains inform

respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for 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.

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.

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.

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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-

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.

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Odour : Mild petroleum oil like.

Odour Threshold : No data available

Pour point : -51 °C

Boiling point/boiling range : No data available

Flash point : 132 °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 : 0.8360 kg/l (15 °C)

Solubility(ies)

Water solubility : insoluble

Partition coefficient: n-

octanol/water

No data available

Viscosity

Viscosity, kinematic : 13.6 cSt (40 °C)

5.2 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.

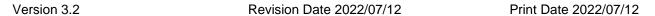
9.2 Other information

No data available

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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

Conditions to avoid No data available

10.5 Incompatible materials

Materials to avoid Reactive with oxidising agents and reducing agents.

10.6 Hazardous decomposition products

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

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

Information on likely routes of:

exposure

Eye contact Ingestion Inhalation Skin contact

Acute toxicity

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

Assessment: The substance or mixture has no acute dermal Acute dermal toxicity

toxicity

Remarks: No data available

Components:

Distillates (petroleum), hydrotreated light paraffinic; Baseoil — unspecified:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg,

LC50 (Rat): > 5 mg/l Acute inhalation toxicity

Exposure time: 4 h

Test atmosphere: dust/mist

Acute dermal toxicity LD50 (Rabbit): > 2,000 mg/kg,

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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

SECTION 12: Ecological information

12.1 Toxicity

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

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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

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

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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mix-

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

European Poison Center Phone Numbers

Belgium - 070 245 245

Czech Republic - +420 224 919 293

Denmark - 82 12 12 12

Estonia - 16662

Finland - 09 471 977

France - + 33 (0) 1 45 42 59 59

Ireland - 01 809 2166

Italy -

Rome: 06 68593726 Foggia: 800183459 Naples: 081-5453333 Rome: 06-49978000 Rome: 06-3054343 Florence: 055-7947819 Pavia: 0382-24444 Milan: 02-66101029 Bergamo: 800883300 Verona: 800011858

Lithuania - +370 687 533 78

Netherlands - +31 (0)88 755 8000 (Only for the purpose of informing medical personnel in case of acute intoxications.)

Poland - +48 71 343 30 08

Portugal - 808 250 143

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Romania - +402 212 106 282

15.2 Chemical safety assessment

SECTION 16: Other information

Full text of H-Statements

H304 : May be fatal if swallowed and enters airways.

H315 : Causes skin irritation. H400 : Very toxic to aquatic life.

H410 : Very toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Aquatic Acute : Short-term (acute) aquatic hazard
Aquatic Chronic : Long-term (chronic) aquatic hazard

Asp. Tox. : Aspiration hazard Skin irr. : Skin corrosion/irritation

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

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Europe, telephone: 00-800-7387-6000

For Product Safety Information: 1 905-491-0565

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

Classification of the mixture: Classification procedure:

Asp. Tox. 1 H304 Calculation method

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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