AFETY DATA SHEET	•		
RDEE <sup>TM/MC</sup> 100			PETROCAN
00003000417			
ersion 4.1		Revision Date 2022/07/22	Print Date 2022/07/
ECTION 1. IDENTIFICATION	I		
Product name	:	ARDEE TM/MC 100	
Product code	:	RDE100IBC, RDE100P20, RDE10 RDE100, RDE100BLK	00DRM, RDE100DCT,
Manufacturer or supplie	r's det	ails	
		Petro-Canada America Lubricants 2828 N. Harwood St., Suite 1300 Dallas TX 75201 United States	LLC
Teleph	one :	1-214-871-3555	
Emergency telephone n	umber		
Emergency telephone number	:	CHEMTREC: 1-800-424-9300; Poison Control Centre: Consult loc emergency number(s).	al telephone directory for
Recommended use of th	e cher	nical and restrictions on use	
Recommended use	:	Ardee oils are designed for use in drill equipment and other air-operation	
Prepared by	:	Product Safety: +1 905-491-0565	

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200) Effects on or via lactation			
GHS label elements			
Hazard statements	: May cause harm to breast-fed children.		
Precautionary statements	<ul> <li>Prevention:</li> <li>Obtain special instructions before use.</li> <li>Avoid contact during pregnancy/ while nursing.</li> <li>Wash skin thoroughly after handling.</li> <li>Do not eat, drink or smoke when using this product.</li> <li>Response:</li> <li>IF exposed or concerned: Get medical advice/ attention.</li> </ul>		
<b>Other hazards</b> 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		

# **ARDEE** <sup>™/MC</sup> **100**

## 000003000417

Version 4.1

Revision Date 2022/07/22

Print Date 2022/07/22

equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

## Components

CAS-No.	Concentration (% w/w)
72623-87-1	70 - 90
64742-62-7	20 - 30
64742-70-7	20 - 30
64741-95-3	10 - 20
64742-65-0	10 - 20
64742-54-7	1 - 5
85535-85-9	1 - 5
	72623-87-1 64742-62-7 64742-70-7 64741-95-3 64742-65-0 64742-54-7

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.



ARDEE TM/MC 100

## 000003000417

Version 4.1



Print Date 2022/07/22

## **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 firefighting	:	Cool closed containers exposed to fire with water spray.
Hazardous combustion products	:	Carbon oxides (CO, CO2), nitrogen oxides (NOx), phosphorus oxides (POx), sulphur compounds (H2S), smoke and irritating vapours as products of incomplete combustion.
Further information	:	Prevent fire extinguishing water from contaminating surface water or the ground water system.

## 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.

ARDEE <sup>™/MC</sup> 100

## 000003000417



Version 4.1	Revision Date 2022/07/22	Print Date 2022/07/22	
Conditions for safe storage	: Store in original container. Containers which are opened mus kept upright to prevent leakage. Keep in a dry, cool and well-ventil Keep in properly labelled containe To maintain product quality, do no	ated place. rs.	

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

sunlight.

#### 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
Residual oils (petroleum), solvent-dewaxed; Baseoil — unspecified	64742-62-7	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
Paraffin oils (petroleum), catalytic dewaxed heavy; Baseoil — unspecified	64742-70-7	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
Residual oils (petroleum), solvent deasphalted; Baseoil — unspecified	64741-95-3	TWA (Inhalable particulate matter)	5 mg/m3	ACGIH
Distillates (petroleum), solvent- dewaxed heavy paraffinic; Baseoil — unspecified	64742-65-0	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
Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil — unspecified	64742-54-7	TWA (Inhalable particulate matter)	5 mg/m3	ACGIH

# **ARDEE TM/MC 100**

## 000003000417

PETRO-CANADA

Version	41	

ersion 4.1		Revision Date 2022/07/22	Print Date	2022/07/22
		TWA (Mist) TWA (Mist) TWA (Mist) ST (Mist)	5 mg/m3 5 mg/m3 5 mg/m3 10 mg/m3	OSHA Z-1 OSHA P0 NIOSH REL NIOSH REL
Engineering measures	:	No special ventilation requiren should be sufficient to control contaminants.	nents. Good general worker exposure to a	ventilation irborne
Personal protective equipme	ent			
Respiratory protection	:	Use respiratory protection unleventilation is provided or expo that exposures are within reco Respirator selection must be be exposure levels, the hazards of working limits of the selected records.	sure assessment der ommended exposure based on known or ar of the product and the	nonstrates guidelines. nticipated
Filter type	:	organic vapour filter		
Hand protection Material	:	neoprene, nitrile, polyvinyl alco	ohol (PVA), Viton <sup>®</sup> .	
Remarks	:	Chemical-resistant, impervious approved standard should be chemical products if a risk ass necessary.	worn at all times whe	en handling
Eye protection	:	Wear face-shield and protectiv problems.	ve suit for abnormal p	processing
Skin and body protection	:	Choose body protection in rela concentration and amount of c the specific work-place.		
Protective measures	:	Wash contaminated clothing b	pefore re-use.	
Hygiene measures	:	Remove and wash contamination including the inside, before re- Wash face, hands and any exp handling.	-use.	

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	viscous liquid
Colour	:	dark brown
Odour	:	Mild petroleum oil like.
Odour Threshold	:	No data available
рН	:	No data available
Pour point Boiling point/boiling range	:	-33 °C (-27 °F) No data available

# ARDEE <sup>TM/MC</sup> 100

## 000003000417



Version 4.1		Revision Date 2022/07/22	Print Date 2022/07/22
Flash point	:	233 °C (451 °F) Method: Cleveland open cup	
Fire Point	:	No data available	
Evaporation rate	:	No data available	
Flammability	:	Low fire hazard. This material mus will occur.	at be heated before ignition
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	:	0.8856 kg/l (15 °C / 59 °F)	
Solubility(ies)			
Water solubility	:	insoluble	
Partition coefficient: n- octanol/water	:	No data available	
Viscosity Viscosity, kinematic	:	96.4 cSt (40 °C / 104 °F)	
		11.5 cSt (100 °C / 212 °F)	
Explosive properties	:	Do not pressurize, cut, weld, braze expose containers to heat or source	

## 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, acids, reducing agents, halogens and halogen compounds.
Hazardous decomposition products	:	May release COx, NOx, SOx, POx, H2S, metal oxides, hydrocarbons, asphyxiants, smoke and irritating vapours when heated to decomposition.

**ARDEE** <sup>™/MC</sup> 100

## 000003000417

Version 4.1

Revision Date 2022/07/22

Print Date 2022/07/22

## SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Eye contact	s of	exposure
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 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 unspecified:	ı), C	20-50, hydrotreated neutral oil-based; 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,
Residual oils (petroleum), a Acute oral toxicity		ent-dewaxed; Baseoil — unspecified: LD50 (Rat): > 5,000 mg/kg,
Acute inhalation toxicity	:	LC50 (Rat): > 5.53 mg/l Exposure time: 4 h Test atmosphere: dust/mist
Acute dermal toxicity	:	LD50 (Rabbit): > 3,000 mg/kg,
<b>Distillates (petroleum), sol</b> Acute oral toxicity	vent :	<b>-dewaxed heavy paraffinic; Baseoil — unspecified:</b> LD50 (Rat): > 5,000 mg/kg,
Acute dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg,
<b>Distillates (petroleum), hyc</b> Acute oral toxicity	lrotr :	eated heavy paraffinic; Baseoil — unspecified: LD50 (Rat): > 5,000 mg/kg,
Acute dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg,
Skin corrosion/irritation		
Product:		
Remarks	:	No data available



# ARDEE **TM/MC** 100

## 000003000417

Version 4.1



Print Date 2022/07/22

# 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

## 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		
<u>Components:</u> Residual oils (petroleum), solvent-dewaxed; Baseoil — unspecified :				
Toxicity to fish	:	LC50 (Fish): > 100 mg/l Exposure time: 96 h		

		Exposure time. 90 fr
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia (water flea)): > 100 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (algae): > 100 mg/l Exposure time: 72 h

ARDEE TM/MC 100

## 000003000417

Version 4.1

Revision Date 2022/07/22



Print Date 2022/07/22

## Persistence and degradability

# Product:

Biodegradability	:	Remarks: No data available
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## **Bioaccumulative potential**

No data available

Mobility in soil 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. 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. 65This product contains chemical(s) known to the State of<br/>California to cause cancer and/or to cause birth defects or<br/>other reproductive harm. For more information go to<br/>www.P65Warnings.ca.gov. The chemicals include:<br/>71-43-2Denzene71-43-2The components of this product are reported in the following inventories:

: On the inventory, or in compliance with the inventory

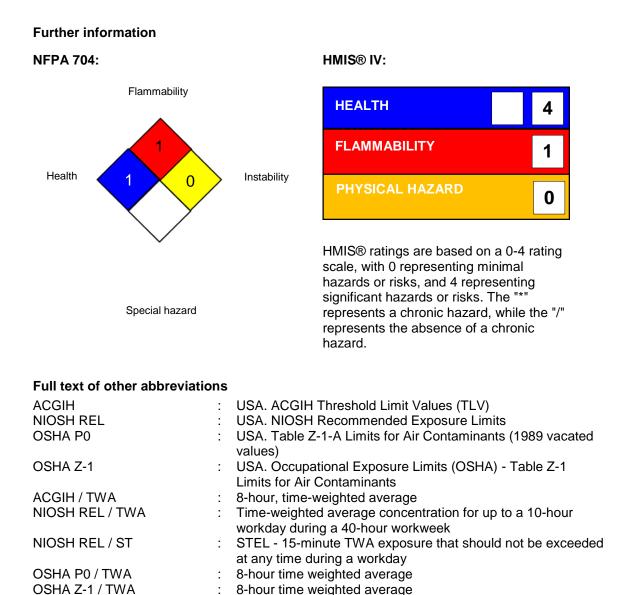
DSL

# SAFETY DATA SHEET ARDEE <sup>TM/MC</sup> 100 000003000417



Version 4.1	Revision Date 2022/07/22	Print Date 2022/07/22
TSCA	: All chemical substances in this pro TSCA Inventory or are in complian exemption.	

## **SECTION 16. OTHER INFORMATION**



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 -

ARDEE **TM/MC** 100

## 000003000417

Version 4.1

#### Revision Date 2022/07/22

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	:	2022/07/22 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 2022/07/22

