according to the OSHA Hazard Communication Standard



# ARDEE TM/MC 46

#### 000003000415

Version 6.0 Revision Date 2025/06/10 Print Date 2025/06/10

#### **SECTION 1. IDENTIFICATION**

Product name : ARDEE TM/MC 46

Product code : RDE46BLK, RDE46IBC, RDE46P20, RDE46

Manufacturer or supplier's details

Petro-Canada America Lubricants LLC

2323 Victory Ave., Suite 1400

Dallas TX 75219 United States

Telephone: 1-214-871-3555

**Emergency telephone number** 

Emergency telephone num: CHEMTREC: 1-800-424-9300;

ber Poison Control Centre: Consult local telephone directory for

emergency number(s).

Recommended use of the chemical and restrictions on use

Recommended use : Ardee oils are designed for use in lubricating pneumatic rock

drill equipment and other air-operated machinery.

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.

Other hazards

None known.

**GHS** label elements

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

IARC No component of this product present at levels greater than

or equal to 0.1% is identified as probable, possible or con-

firmed human carcinogen by IARC.

**OSHA**No component of this product present at levels greater than or

egual 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.

# **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

according to the OSHA Hazard Communication Standard



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#### Components

Chemical name	CAS-No.	Concentration (% w/w)
Distillates (petroleum), hydrotreated	64742-54-7	70 - 90
heavy paraffinic; Baseoil — unspeci-		
fied		
White mineral oil (petroleum)	8042-47-5	70 - 90
Residual oils (petroleum), solvent-	64742-62-7	10 - 20
dewaxed; Baseoil — unspecified		
Paraffin oils (petroleum), catalytic	64742-70-7	10 - 20
dewaxed heavy; Baseoil — unspeci-		
fied		
Residual oils (petroleum), solvent	64741-95-3	10 - 20
deasphalted; Baseoil — unspecified		
Distillates (petroleum), solvent-	64742-65-0	5 - 10
dewaxed heavy paraffinic; Baseoil —		
unspecified		

#### **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 physi-

cian 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.

Notes to physician : Treat symptomatically.

#### **SECTION 5. FIREFIGHTING MEASURES**

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

cumstances and the surrounding environment.

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Unsuitable extinguishing

media

No information available.

Specific hazards during fire-

fighting

Cool closed containers exposed to fire with water spray.

Hazardous combustion prod: :

ucts

Carbon oxides (CO, CO2), sulphur oxides (SOx), sulphur compounds (H2S), sulfides, aldehydes, alkyl mercaptans, smoke and irritating vapours as products of incomplete com-

bustion.

Further information Prevent fire extinguishing water from contaminating surface

water or the ground water system.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protec: :

tive 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.

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

ronment

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 : None known.

fire and explosion

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.

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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 sun-

liaht.

#### **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

# Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters/ Permissible concentration	Basis
Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil — unspecified	64742-54-7	TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Inhal-	5 mg/m3	ACGIH
		able particu-		
		late matter)		
		TWA (Mist)	5 mg/m3	OSHA P0
		TWA (Mist)	5 mg/m3	NIOSH REL
		ST (Mist)	10 mg/m3	NIOSH REL
White mineral oil (petroleum)	8042-47-5	TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Inhal-	5 mg/m3	ACGIH
		able particu-		
		late matter)		
		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 (Mist)	5 mg/m3	OSHA Z-1
		TWA (Inhal-	5 mg/m3	ACGIH
		able particu-	_	
		late matter)		
		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), sol-	64741-95-3	TWA (Inhal-	5 mg/m3	ACGIH
vent deasphalted; Baseoil —		able particu-		
unspecified		late matter)		
Distillates (petroleum), solvent- dewaxed heavy paraffinic;	64742-65-0	TWA (Mist)	5 mg/m3	OSHA Z-1

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Baseoil — unspecified			
	TWA (Inhal-	5 mg/m3	ACGIH
	able particu-		
	late matter)		
	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®.

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.

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 concen-

tration and amount of dangerous substances, and to the spe-

cific work-place.

Protective measures : Wash contaminated clothing before re-use.

Hygiene measures : Remove and wash contaminated clothing and gloves, includ-

ing the inside, before re-use.

Wash face, hands and any exposed skin thoroughly after

handling.

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : viscous liquid

Colour : dark brown

Odour : Mild petroleum oil like.

Odour Threshold : No data available

according to the OSHA Hazard Communication Standard



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pH : No data available

Pour point : -45 °C (-49 °F)

Boiling point/boiling range : No data available

Flash point : 206 °C (403 °F)

Method: Cleveland open cup

Fire Point : No data available

Evaporation rate : No data available

Flammability : Remarks: Low fire hazard. This material must be heated be-

fore 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 : 0.8634 kg/l (59 °F / 15 °C)

Solubility(ies)

Water solubility : insoluble

Partition coefficient: n-

octanol/water

No data available

Decomposition temperature : No data available

Viscosity

Viscosity, kinematic : 47.4 cSt (104 °F / 40 °C)

7.8 cSt (212 °F / 100 °C)

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

pose containers to heat or sources of ignition.

Particle size : No data available

# **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No dangerous reaction known under conditions of normal use.

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Chemical stability : Stable under normal conditions.

Possibility of hazardous reac-

tions

: Hazardous polymerisation does not occur.

Conditions to avoid : No data available

Incompatible materials : Reactive with oxidising agents, reducing agents, acids, halo-

gens and halogenated compounds.

Hazardous decomposition

products

May release COx, SOx, POx, H2S, hydrocarbons, alkyl mercaptans, sulfides, methacrylate monomers, asphyxiants,

smoke and irritating vapours when heated to decomposition.

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

## Information on likely routes of exposure

Eye contact Ingestion Inhalation Skin contact

#### **Acute toxicity**

Not classified due to lack of data.

**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

Acute dermal toxicity : Remarks: No data available

#### **Components:**

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

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

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

White mineral oil (petroleum):

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), solvent-dewaxed; Baseoil — unspecified:

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

Acute inhalation toxicity : LC50 (Rat): > 5.53 mg/l

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Petro-Canada Lubricants is an HF Sinclair brand

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Exposure time: 4 h

Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit): > 3,000 mg/kg,

Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil — unspecified:

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

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

Skin corrosion/irritation

Not classified due to lack of data.

Serious eye damage/eye irritation

Not classified due to lack of data.

Respiratory or skin sensitisation

Skin sensitisation

Not classified due to lack of data.

Respiratory sensitisation

Not classified due to lack of data.

Germ cell mutagenicity

Not classified due to lack of data.

Carcinogenicity

Not classified due to lack of data.

Reproductive toxicity

Not classified due to lack of data.

STOT - single exposure

Not classified due to lack of data.

STOT - repeated exposure

Not classified due to lack of data.

**Aspiration toxicity** 

Not classified due to lack of data.

#### **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

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Toxicity to microorganisms : Remarks: No data available

#### Persistence and degradability

**Product:** 

Biodegradability : Remarks: No data available

## **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 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

**National Regulations** 

**49 CFR** 

Not regulated as a dangerous good

Special precautions for user

Not applicable

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

California Prop. 65 This product contains chemical(s) known to the State of Cali-

fornia to cause cancer and/or to cause birth defects or other

reproductive harm. For more information go to

according to the OSHA Hazard Communication Standard



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www.P65Warnings.ca.gov. The chemicals include:

benzene 71-43-2

#### 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.

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

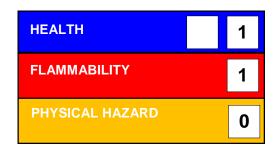
#### **Further information**

#### NFPA 704:

# Flammability Health Instability

Special hazard

#### HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

#### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL : USA. NIOSH Recommended Exposure Limits

OSHA PO : USA. Table Z-1-A Limits for Air Contaminants (1989 vacated

values)

OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim-

its for Air Contaminants

ACGIH / TWA : 8-hour, time-weighted average

NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour

workday during a 40-hour workweek

NIOSH REL / ST : STEL - 15-minute TWA exposure that should not be exceeded

at any time during a workday

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

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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: www.petrocanadalubricants.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

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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.