SAFETY DATA SHEET			
REFLO TM/MC CFC			PETRO CANADA
000003001368			
Version 2.5		Revision Date 2022/08/11	Print Date 2022/08/11
SECTION 1. IDENTIFICATION			
Product name	:	REFLO TM/MC CFC	
Product code	:	REFLCFCP20, REFLCFC, REFLCFC	DRM
Manufacturer or supplier's o Telephone		ails Petro-Canada America Lubricants LLC 2828 N. Harwood St., Suite 1300 Dallas TX 75201 United States 1-214-871-3555	:
Emergency telephone numb	ber		
Emergency telephone number	:	CHEMTREC: 1-800-424-9300; Poison Control Centre: Consult local te emergency number(s).	lephone directory for
Recommended use of the cl	her	nical and restrictions on use	
Recommended use	:	Reflo CFC is designed for use in refrig containing CFC or ammonia refrigeran use with HCFC or HFC refrigerants su	ts. It is not intended for
Prepared by	:	Product Safety: +1 905-491-0565	
SECTION 2. HAZARDS IDENTIFIE	CA	TION	
GHS classification in accord 1910.1200)	dar	nce with the OSHA Hazard Communication	ation Standard (29 CFR
Not a hazardous substance or	r m	ixture.	
GHS label elements			
Not a hazardous substance or	r m	ixture.	
Other hazards			
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 equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components



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CAS-No.	Concentration (% w/w)
64742-52-5	90 - 100

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 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 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.

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), aldehydes, 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

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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 unauthorized personnel. Only qualified personnel equipped with equipment may intervene.	and prevent access to
Environmental precautions	:	Do not allow uncontrolled discharge of environment.	product into the
Methods and materials for containment and cleaning up	:	Prevent further leakage or spillage if sa 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.	afe to do so.

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. 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.
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 sunlight.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil — unspecified	64742-52-5	TWA (Inhalable particulate matter)	5 mg/m3	ACGIH
		TWA (Mist)	5 mg/m3	OSHA Z-1

Components with workplace control parameters

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	1		TWA (Mist)	5 mg/m3	OSHA P0
			TWA (Mist)	5 mg/m3	NIOSH RE
			ST (Mist)	10 mg/m3	NIOSH RE
Engineering measures	:	No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants.			
Personal protective equip	ment				
Respiratory protection	:	ventilation is p that exposure Respirator sel exposure leve	provided or expo s are within reco lection must be b	ess adequate local ex sure assessment der ommended exposure based on known or ar of the product and the respirator.	monstrates guidelines. nticipated
Filter type	:	organic vapou	ır filter		
Hand protection Material	:	neoprene, nitr	ile, polyvinyl alc	ohol (PVA), Viton [®] .	
Remarks	:	approved star	ndard should be	s gloves complying w worn at all times whe sessment indicates th	en handling
Eye protection	:	Wear face-shi problems.	ield and protectiv	ve suit for abnormal p	processing
Skin and body protection	:		and amount of o	ation to its type, to the dangerous substance	
Protective measures	:	Wash contam	inated clothing b	pefore re-use.	
Hygiene measures	:	handling. Remove and v		posed skin thoroughl ted clothing and glov -use.	-

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	viscous liquid
Colour	:	amber
Odour	:	Mild petroleum oil like.
Odour Threshold	:	No data available
рН	:	No data available
Pour point Boiling point/boiling range	:	-39 °C (-38 °F) No data available

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Flash point	:	191 °C (376 °F) Method: Cleveland open cup	
Fire Point	:	No data available	
Evaporation rate	:	No data available	
Flammability	:	Low fire hazard. This material must b will occur.	e 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	:	0.9129 kg/l (15 °C / 59 °F)	
Solubility(ies)			
Water solubility	:	insoluble	
Partition coefficient: n- octanol/water	:	No data available	
Viscosity Viscosity, kinematic	:	59.6 cSt (40 °C / 104 °F)	
		6.5 cSt (100 °C / 212 °F)	
Explosive properties	:	Do not pressurize, cut, weld, braze, s expose containers to heat or sources	

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.
Hazardous decomposition products	:	May release COx, smoke and irritating vapours when heated to decomposition.

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SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely route Eye contact Ingestion Inhalation	es of	exposure			
Skin contact					
Acute toxicity					
Product: Acute oral toxicity	:	Remarks: No data available			
Acute inhalation toxicity	:	Remarks: No data available			
Acute dermal toxicity	:	Remarks: No data available			
Components: Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil — unspecified: Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg,					
Acute dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg,			
Skin corrosion/irritation					
Product:					
Remarks	:	No data available			
Serious eye damage/eye i	rritat	ion			
<u>Product:</u> Remarks	:	No data available			
Respiratory or skin sensit	isati	on			
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

	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			
	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 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

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Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

California Prop. 65		This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm. For more information go to www.P65Warnings.ca.gov.			
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.			
EINECS	:	On the inventory, or in compliance with the inventory			
IECSC	:	On the inventory, or in compliance with the inventory			
AICS	:	On the inventory, or in compliance with the inventory			
ENCS	:	On the inventory, or in compliance with the inventory			
KECI	:	On the inventory, or in compliance with the inventory			
PICCS	:	On the inventory, or in compliance with the inventory			

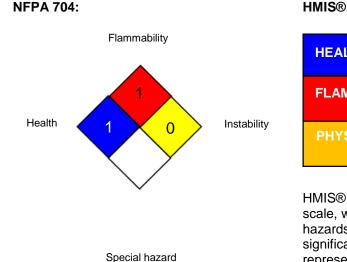
SECTION 16. OTHER INFORMATION

Further information

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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 NIOSH REL		USA. ACGIH Threshold Limit Values (TLV) USA. NIOSH Recommended Exposure Limits
OSHA P0	:	USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits 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 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

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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	:	2022/08/11 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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