CALFLO TM/MC LT

000003000581

Version 2.0

Revision Date 2018/07/06



Print Date 2018/07/06

SECTION 1. IDENTIFICATION

Product name :	CALFLO TM/MC LT
Product code :	CALLTDCT, CALLTIBC, CALLTDRM, CALLT, CALLTBLK
Manufacturer or supplier's details	Petro-Canada Lubricants Inc. 2310 Lakeshore Road West Mississauga ON L5J 1K2 Canada
Emergency telephone num- ber	Petro-Canada Lubricants Inc.: +1 905-403-5770; CHEMTREC Transport Emergency: 1-800-424-9300; Poison Control Centre: Consult local telephone directory for emergency number(s).
Recommended use of the cher	nical and restrictions on use
Recommended use :	CALFLO LT is a heat transfer fluid recommended for non- pressurized, liquid-phase, closed heat transfer systems.
Prepared by :	Product Safety: +1 905-491-0565

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance	viscous liquid
Colour	Colourless to light yellow.
Odour	Mild petroleum oil like.

GHS Classification Acute toxicity (Inhalation) : Category 4 Aspiration hazard : Category 1 GHS label elements : Category 1 Hazard pictograms : Category 1 Signal word : Danger

CALFLO ^{™/MC} LT

000003000581



000003000581		
Version 2.0	Revision Date 2018/07/06 Print Date 2018/07/06	
Hazard statements	: May be fatal if swallowed and enters airways. Harmful if inhaled.	
Precautionary statements	 Prevention: Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Use only outdoors or in a well-ventilated area. Response: IF SWALLOWED: Immediately call a POISON CENTER/doctor. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. Do NOT induce vomiting. Storage: Store locked up. Disposal: Dispose of contents/ container to an approved waste disposal plant. 	
Potential Health Effects		
Primary Routes of Entry	: Eye contact Ingestion Inhalation Skin contact	
Aggravated Medical Condi- tion	: None known.	
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.	
ACGIH	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.	

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Chemical name	CAS-No.	Concentration
lubricating oils (petroleum), C15-30, hydrotreat- ed neutral oil-based	72623-86-0	50 - 70 %
1-Decene, dimer, hydrogenated	68649-11-6	30 - 50 %

SECTION 4. FIRST AID MEASURES

CALFLO TM/MC LT

000003000581



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/ersion 2.0	Revision Date 2018/07/06	Print Date 2018/07/06	
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 eyelic 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 himsel	lf.	

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment.
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), nitrogen oxides (NOx), sulphur oxides (SOx), hydrocarbons, smoke and irritating vapours as products of incomplete combustion.
Further information	: Prevent fire extinguishing water from contaminating surface water or the ground water system.
Special protective equipment for firefighters	 Wear self-contained breathing apparatus for firefighting if necessary. Wear a positive-pressure supplied-air respirator with full face piece.

SECTION 6. ACCIDENTAL RELEASE MEASURES

CALFLO TM/MC LT

000003000581



Version 2.0	Revision Date 2018/07/06	Print Date 2018/07/06
Personal precautions, protec- tive equipment and emer- gency procedures	: Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas. Material can create slippery conditio	ns.
Environmental precautions	: If the product contaminates rivers ar respective authorities.	nd lakes or drains inform
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 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.
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- light.

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
lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0	TWA (Mist)	5 mg/m3	CA AB OEL
		STEL (Mist)	10 mg/m3	CA AB OEL
		TWAEV (Mist)	5 mg/m3	CA QC OEL
		STEV (Mist)	10 mg/m3	CA QC OEL
		TWA (Inhal-	5 mg/m3	ACGIH

CALFLO TM/MC LT

000003000581



sion 2.0	Revision Date 2018/07/06	Print Date 2018/07/06	
	able fraction)		
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	exposure levels, the hazards of the	: 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		
	Use a properly fitted, air-purifying or air-fed respirator of plying with an approved standard if a risk assessment cates this is necessary.		
Hand protection Material	: neoprene, nitrile, polyvinyl alcoho	ol (PVA), Viton(R).	
Remarks	approved standard should be wo	: 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 necessary.	
Eye protection	: Wear face-shield and protective s problems.	suit for abnormal processing	
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	pre re-use.	
Hygiene measures	 Remove and wash contaminated ing the inside, before re-use. Wash face, hands and any expose handling. 		

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: viscous liquid
Colour	: Colourless to light yellow.
Odour	: Mild petroleum oil like.
Odour Threshold	: No data available
рН	: No data available
Pour point	: -63 °C (-81 °F)
Boiling point/boiling range	: No data available

CALFLO TM/MC LT

000003000581



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Version 2.0	Revision Date 2018/07/06	Print Date 2018/07/06
Flash point	: 158 °C (316 °F) Method: Pensky-Martens closed c	up
Auto-Ignition Temperature	: 323 °C (613 °F)	
Evaporation rate	: No data available	
Flammability	: Low fire hazard. This material mus will occur.	st be heated before ignition
Upper explosion limit	: No data available	
Lower explosion limit	: No data available	
Vapour pressure	: No data available	
Relative vapour density	: No data available	
Relative density	: No data available	
Density	: 0.8189 kg/l (15 °C / 59 °F)	
Solubility(ies)		
Water solubility	: insoluble	
Partition coefficient: n- octanol/water	: No data available	
Viscosity		
Viscosity, kinematic	: 7.52 cSt (40 °C / 104 °F)	
	2.23 cSt (100 °C / 212 °F)	
Explosive properties	: Do not pressurise, cut, weld, braze pose containers to heat or sources	

SECTION 10. STABILITY AND REACTIVITY

Possibility of hazardous reac- tions	:	Hazardous polymerisation does not occur. Stable under normal conditions.
Conditions to avoid	:	No data available
Incompatible materials	:	Reactive with oxidising agents, acids and alkalis.
Hazardous decomposition products	:	May release COx, NOx, SiOx, diphenylamine, methacrylate monomers, aldehydes, smoke and irritating vapours when heated to decomposition.

CALFLO ^{™/MC} LT

000003000581

Version 2.0



SECTION 11. TOXICOLOGICAL INFORMATION Information on likely routes of

Information on likely routes Eye contact Ingestion Inhalation Skin contact	of exposure			
Acute toxicity				
Product: Acute oral toxicity	: Remarks: No data available			
Acute inhalation toxicity	: Remarks: No data available			
Acute dermal toxicity	: Remarks: No data available			
<u>Components:</u> Iubricating oils (petroleum), Acute oral toxicity	C15-30, hydrotreated neutral oil-based: : 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,			
1-Decene, dimer, hydrogena Acute inhalation toxicity	ted: : LC50 (Rat): 1.17 mg/l Exposure time: 4 h Test atmosphere: dust/mist			
Skin corrosion/irritation				
<u>Product:</u> Remarks: No data available				
Serious eye damage/eye irritation				
<u>Product:</u> Remarks: No data available				
Respiratory or skin sensitisation No data available				
Germ cell mutagenicity No data available Carcinogenicity				

CALFLO ^{™/MC} LT

000003000581

Version 2.0



Print Date 2018/07/06

No data available

Reproductive toxicity

No data available

STOT - single exposure No data available

STOT - repeated exposure

No data available

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	: Remarks: No data available
Toxicity to bacteria	: 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

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-
Internet: lubricants.petro-canada.com/sds ™ Owned or used under license.	Page: 8 / 10

CALFLO TM/MC LT

000003000581

Version 2.0

Revision Date 2018/07/06

Print Date 2018/07/06

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

Not applicable for product as supplied.

National Regulations

TDG

Not regulated as a dangerous good

Not applicable for product as supplied.

SECTION 15. REGULATORY INFORMATION

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

The components of this product are reported in the following inventories:DSLOn the inventory, or in compliance with the inventoryTSCAAll chemical substances in this product are either listed on the
TSCA Inventory or are in compliance with a TSCA Inventory
exemption.IECSCOn the inventory, or in compliance with the inventory
On the inventory, or in compliance with the inventory
On the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION

For Copy of SDS	: Internet: lubricants.petro-canada.com/sds Western Canada, telephone: 1-800-661-1199; fax: 1-800-378- 4518
	Ontario & Central Canada, telephone: 1-800-268-5850; fax: 1- 800-201-6285
	Quebec & Eastern Canada, telephone: 1-800-576-1686; fax: 1-800-201-6285 For Product Safety Information: 1 905-491-0565



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