LUMINOL [™] TR-i (Type II Inhibited)



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Version 3.1		Revision Date 2024/01/10	Print Date 2024/01/10
SECTION 1. IDENTIFICATION			
Product name	:	LUMINOL ™ TR-i (Type II Inhibite	d)
Product code	:	LUMTRIDRM, LUMTRIIBC, LUMT LUMTRI	RIDRX, LUMTRIBLK,
Manufacturer or supplier		ails Petro-Canada America Lubricants 2828 N. Harwood St., Suite 1300 Dallas TX 75201 United States 1-214-871-3555	LLC
Emergency telephone nu	mber		
Emergency telephone number	:		al telephone directory for
Recommended use of the	e chei	nical and restrictions on use	
Recommended use	:	Premium inhibited (Type II) insulat transformers, circuit breakers and	
Prepared by	:	Product Safety: +1 905-491-0565	
SECTION 2. HAZARDS IDENT	IFICA	TION	
GHS classification in acc 1910.1200)	ordar	nce with the OSHA Hazard Commu	unication Standard (29 CFR
Aspiration hazard	:	Category 1	
GHS label elements			
Hazard pictograms	:		

Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	May be fatal if swallowed and enters airways.
Precautionary statements	:	Response: IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Do NOT induce vomiting.
		Storage: Store locked up.
		Disposal: Dispose of contents/ container to an approved waste disposal plant.

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Other hazards None known.		
IARC	No component of this product pres or equal to 0.1% is identified as pro confirmed human carcinogen by IA	bable, possible or
OSHA	No component of this product pres equal to 0.1% is on OSHA's list of	
NTP	No component of this product pres equal to 0.1% is identified as a kno by NTP.	

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Lubricating oils (petroleum), C15-30,	72623-86-0	90 - 100
hydrotreated neutral oil-based;		
Baseoil — unspecified		
Distillates (petroleum), hydrotreated	64742-55-8	70 - 90
light paraffinic; Baseoil — unspecified		
Distillates (petroleum), hydrotreated	64742-46-7	5 - 10
middle; Gasoil — unspecified		
1,2,3,4-tetrahydronaphthalene	119-64-2	1 - 5
2,6-di-tert-butyl-p-cresol	128-37-0	0.1 - 1
Actual concentration is withhold as a tr	ada agarat	

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

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		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. May be fatal if swallowed and enters air	rways.	
Notes to physician	:	Treat symptomatically.		

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), 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. If the product contaminates rivers and lakes or drains inform respective authorities.
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		

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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 kept upright to prevent leakage. Keep in a dry, cool and well-ventilated Keep in properly labelled containers. To maintain product quality, do not sto sunlight.	place.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; Baseoil — unspecified	72623-86-0	TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Inhalable particulate matter)	5 mg/m3	ACGIH
		TWA (Mist)	5 mg/m3	OSHA P0
		TWA (Mist)	5 mg/m3	NIOSH REL
		ST (Mist)	10 mg/m3	NIOSH REL
Distillates (petroleum), hydrotreated light paraffinic; Baseoil — unspecified	64742-55-8	TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Inhalable particulate matter)	5 mg/m3	ACGIH
		TWA (Mist)	5 mg/m3	OSHA P0
		TWA (Mist)	5 mg/m3	NIOSH REL
		ST (Mist)	10 mg/m3	NIOSH REL
Distillates (petroleum), hydrotreated middle; Gasoil — unspecified	64742-46-7	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
2,6-di-tert-butyl-p-cresol	128-37-0	TWA (Inhalable	2 mg/m3	ACGIH

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			fraction and vapor)		
			TWA	10 mg/m3	NIOSH REL
			TWA	10 mg/m3	OSHA P0
Engineering measures	:	No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants.			
Personal protective equipme	ent				
Respiratory protection	:	ventilation is p that exposures Respirator sele exposure level	rovided or expo s are within reco ection must be b	ess adequate local essure assessment der mmended exposure based on known or ar of the product and the respirator.	nonstrates guidelines. nticipated
Filter type	:	organic vapou	r 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 necessary.		en handling	
Eye protection	:	Wear face-shi problems.	eld and protectiv	ve suit for abnormal p	processing
Skin and body protection	:	Choose body p concentration the specific wo	and amount of c	ation to its type, to the langerous substance	e s, and to
Protective measures	:	Wash contami	nated clothing b	efore re-use.	
Hygiene measures	:	Remove and wash contaminated clothing and gloves, including 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	:	Clear and bright
Odour	:	Slight naphthalene like odour.
Odour Threshold	:	No data available
рН	:	No data available
Pour point	:	-60 °C (-76 °F)
Boiling point/boiling range	:	No data available

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Flash point	:	170 °C (338 °F) Method: Cleveland open cup	
Fire Point	:	No data available	
Evaporation rate	:	No data available	
Flammability	:	Remarks: Low fire hazard. This mate before ignition will occur.	rial must be heated
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	:	0.840 kg/l (59 °F / 15 °C)	
Solubility(ies) Water solubility	:	insoluble	
Partition coefficient: n- octanol/water	:	No data available	
Viscosity Viscosity, kinematic	:	9.2 cSt (104 °F / 40 °C)	
		2.6 cSt (212 °F / 100 °C)	
Explosive properties	:	Do not pressurize, cut, weld, braze, s expose containers to heat or sources	

SECTION 10. STABILITY AND REACTIVITY

Reactivity	No dangerous reaction known under conditions	of normal use.
Chemical stability	Stable under normal conditions.	
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 and alkali	S.
Hazardous decomposition	May release COx, hydrocarbons, smoke and in	ritating vapours

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000003000905 Version 3.1 Revision Date 2024/01/10 Print Date 2024/01/10 when heated to decomposition. products 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: : Remarks: No data available Acute oral toxicity Acute inhalation toxicity : Remarks: No data available Acute dermal toxicity : Remarks: No data available **Components:** Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; Baseoil unspecified: LD50 (Rat): > 5,000 mg/kg, Acute oral toxicity : Acute inhalation toxicity : LC50 (Rat): > 5.2 mg/l Exposure time: 4 h Test atmosphere: dust/mist : LD50 (Rabbit): > 2,000 mg/kg, Acute dermal toxicity 1,2,3,4-tetrahydronaphthalene: Acute oral toxicity : LD50 (Rat): 2,860 mg/kg, Acute dermal toxicity LD50 (Rabbit): 17,300 mg/kg, : 2,6-di-tert-butyl-p-cresol: : LD50 (Rat): 6,000 mg/kg, Acute oral toxicity : LD50 (Rabbit): > 2,000 mg/kg, Acute dermal toxicity Skin corrosion/irritation Not classified due to lack of data. **Product:** Remarks No data available 5

Serious eye damage/eye irritation

Not classified due to lack of data.

Product:

Remarks : No data available

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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

May be fatal if swallowed and enters airways.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product: Toxicity to fish : Remarks: No data available Toxicity to daphnia and other : Remarks: No data available aquatic invertebrates Remarks: No data available Toxicity to algae/aquatic : plants 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

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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. 65 naphthalene	This product contains chemical(s) known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov. The chemicals include: 91-20-3
The components of this produ	ct 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

SECTION 16. OTHER INFORMATION

Further information

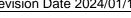
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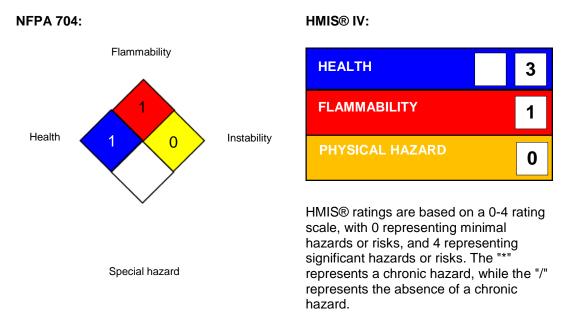


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Full text of other abbreviations

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: 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
Revision Date Date format	:	2024/01/10 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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