



Safety Data Sheet

Section 1. Identification

Product identifier Chain oil (light, medium and heavy)

Product type Liquid

Identified relevant uses of the substance or mixture and non-recommended uses

Identified uses Lubricant oil

Supplier/Manufacturer PP&S Distribution
80 Route 158, Saint-Thomas
QC J0K 3L0
450-759-7979
1-800-363-2712

In case of emergency CANUTEC: (613) 996-6666 or 613-996-6666
24/7

Section 2. Hazard Identification

Classification of the substance or mixture Not regulated by WHMIS 2015/ GHS 2015/ GHS

GHS label elements:

Hazard statement No hazard statement

Precautionary statements

Prevention Avoid eye contact. Avoid prolonged skin contact. Avoid prolonged or repeated inhalation of mist or vapors. Do not ingest. If swallowed, consult a doctor immediately and show him the safety data sheet (SDS). Wear eye protection, gloves and other protective clothing appropriate for the task and risks involved.



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Response	P101: If you consult a doctor, keep the container or label available. P264: Wash skin thoroughly after handling. P301+P310+P331: IF SWALLOWED: Immediately call a doctor or POISON CENTER. DO NOT induce vomiting. P305+P351+P338: FOR EYE CONTACT: Rinse carefully with water for several minutes. Remove contact lenses if the victim is wearing them and they can be easily removed. Continue rinsing.
Storage	Not applicable
Disposal	Not applicable
Other hazards which do not result in classification	None known

Section 3. Composition and information on ingredients

Substance/ mixture	Chain oil
Other means of identification	

Ingredient names	% in weight (w/w)	CAS number
Distillates (petroleum), solvent-refined heavy paraffinic	10 - 90%	64741-88-4
Distillates (petroleum), hydrotreated heavy paraffinic	10 - 90%	64742-54-7
Residual oils (petroleum), solvent-refined	10 - 90%	64742-01-4

[Notes] The product is composed of a 99.9% mixture of these highly refined ingredients, containing no polycyclic aromatic hydrocarbons (PAHs).



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Section 4. First Aid

Description of necessary first aid measures

Inhalation	Move the victim to fresh air. In case of respiratory arrest, provide artificial respiration. If a problem develops or persists, consult a doctor.
Dermal contact	Wash skin with warm water and mild soap. Remove contaminated clothing and wash before reuse. If a problem develops or persists, consult a doctor. Discard contaminated leather items such as shoes and belts.
Eye contact	Rinse with plenty of water for at least 15 minutes. Remove contact lenses if they can be easily removed. Lift the eyelids to properly rinse. If a problem develops or persists, consult a doctor.
Ingestion	DO NOT INDUCE VOMITING If the victim is conscious, rinse the mouth thoroughly with water. Do not give anything by mouth to an unconscious or convulsive victim. If spontaneous vomiting occurs, keep the head below hip level to reduce the risk of aspiration into the lungs. Immediately consult a doctor or Poison Control Centre.

Most important symptoms and effects, acute and delayed

Potential acute health effects

No known significant effects or critical hazards.

Signs and symptoms of overexposure

No information available.

Statement of the need for immediate medical care or special treatment, if necessary

Note to treating doctor	Risk of inhalation absorption into the lungs (ingestion/vomiting). May enter lungs and cause damage. If gastric lavage is performed, it is recommended to do so under endotracheal intubation and/or esophageal closure tube. When considering stomach emptying, the risk of pulmonary aspiration must be weighed against toxicity. Treatment should be aimed at monitoring the patient's symptoms and clinical condition.
Protection of First-Aiders	Do not take any action involving personal risk or in the absence of adequate training. See toxicological information (Section 11)



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Section 5. Fire-Fighting measures

Extinguishing media

Suitable extinguishing media

Dry chemical powders, chemical foam, carbon dioxide (CO₂).

Unsuitable extinguishing media

Do not use a high-pressure water jet.

Specific product hazards

Inflammable May be combustible at high temperature

Special protective measures for fire-fighters

cool containers exposed to fire with water spray. Prevent any runoff from firefighting or diluted product from entering waterways or sewers.

Special protective equipment for firefighting personnel

Firefighters should wear positive pressure self-contained breathing apparatus (full face mask). Firefighting clothing may not be effective against chemicals.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Do not touch the released product. Be sure to wear the personal protective equipment indicated in this sheet.

For emergency responders

If specialized clothing is required to deal with the release, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions

Prevent entry into sewers, enclosed areas and release into the environment. For a large release, consult the Department of the Environment or the appropriate authorities.



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Methods and materials for containment and cleaning up

Release Ventilate the area well. Remove ignition sources. Absorb with an inert material (soil, sand, vermiculite) and place in an appropriate recovery container. Use an authorized specialized company for disposal.

Section 7. Handling and Storage

Precautions for safe handling

Protective measures Use in a well-ventilated area. Avoid eye contact. Avoid prolonged skin contact. Avoid prolonged or repeated inhalation of vapors or mists. Be sure to wear the personal protective equipment indicated in this sheet. Turn off all pilot lights, flames, ovens, radiators, electric motors, welding equipment and other ignition sources. Avoid contamination with any other chemical product. Keep containers tightly closed between uses. Do not eat, drink or smoke during use. After use, wash hands with soap and water. Wash contaminated clothing before reuse.

Advice on general occupational hygiene Store in a properly closed and labelled container. Containers that have been opened must be carefully closed and kept in an upright position to prevent leaks. Store away from incompatible substances (see section 10). Keep away from direct sunlight and heat.

Conditions for safe storage, including any incompatibilities 5 to 45°C (41 to 113°F)

Section 8. Exposure Control/Personal Protection

Control parameters

<u>Occupational exposure limits</u>	
Ingredient names	Exposure limits
Mixture	: TWA (8h) Mist 5 mg/m ³ ACGIH, RSST
Distillates (petroleum), hydrotreated heavy paraffinic	: STEL Mist 10 mg/m ³ NIOSH
Distillates (petroleum), solvent-refined heavy paraffinic	: TWA (8h) Mist 1 mg/m ³ BC MIST 5 mg/m ³ ACGIH , NIOSH, ON, OSHA, RSST
Residual oils (petroleum), solvent-refined	: TWA (8h) Mist 5 mg/m ³ ACGIH , OSHA, RSST



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Individual protection measures

Appropriate engineering controls

Provide sufficient mechanical ventilation (local or general) to keep concentrations of vapors, mists, aerosols or dusts below their respective exposure limits.

Environmental exposure controls

Individual protection

Respiratory protection	A respirator is not required in a well-ventilated area. If workplace conditions require the use of a respirator, it is necessary to follow a respiratory protection program. Air Purifying Respirators (APR) must also be selected, fitted, maintained and inspected in accordance with 29 CFR 1910.134 (OSHA), ANSI Z88.2 or CSA Z 94.11 (Canada) regulations and standards and approved by NIOSH/MSHA. In case of insufficient ventilation or in a low or enclosed area and for a maximum assigned protection factor (APF) 10 times the exposure limit, wear a half mask with cartridges for organic vapors. For a maximum APF of 100 times the exposure limit, wear a full mask with cartridges for organic vapors.
Eye/face protection	Wear safety glasses. If there is a risk of eye contact, wear splash goggles. If respiratory risks exist, a full respiratory mask may be required instead.
Skin protection	Personal protective equipment for the body must be adapted to the task performed and the risks involved. Wear normal work clothing covering arms and legs as directed by your employer. In the event of a release, wear a Tychem (DuPont) synthetic polyethylene suit or equivalent suit to protect against liquid chemicals if necessary.
Hand protection	If there is a risk of skin contact, wear Nitrile gloves. Before use, the user must ensure that they are waterproof. Discard torn, punctured or showing signs of wear gloves. Gloves should only be worn on clean hands. Wash gloves with water before removing them. Then wash your hands and dry them. Disposable nitrile gloves can also be used. However, discard them after single use.
Body protection	Wear rubber boots during a spill.



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Section 9. Physical and Chemical Properties

Physical and chemical properties	Appearance
Physical state: Liquid	Flammability: Not flammable
Color: Slightly colored	Flammability limit: N/Av
Odor: Petroleum odor	Flash point: > 190°C (374°F)
Odor threshold 100 ppm	Autoignition temperature: > 300°C (572°F)
pH: N/App	Sensitivity to electrostatic charges: N/Av
Melting point: -50 to 0°C (-58°F)	Sensitivity to impact and/or friction: N/Av
Freezing Point: -50 to 0°C (-58°F)	Vapor density: >5 (Air = 1)
Boiling point: 150 to 600°C (302 to 1,112°F)	Relative density: 0.86 to 0.9kg/L (Water = 1)
Solubility: Water insolvable.	Partition coefficient: n-octanol/water: 5 to 24
Evaporation rate: < Butyl Acetate	Decomposition temperature: N/Av
Vapor pressure: <0.13kPa (1mmHg) @ 25°C (77°F)	Viscosity: 20-506cSt @ 40°C (104°F)
% volatility: N/Av	Molecular Weight: N/App
N/Av: Not Available, N/App: Not Applicable, UND: Undetermined, NE: Not Established	

Section 10. Stability and Reactivity

Reactivity	No hazardous reactions known.
Chemical stability	Stable under recommended storage conditions
Possibility of hazardous reactions	Hazardous polymerization will not occur.
Conditions to avoid	Avoid contact with incompatible substances.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No decomposition material under normal storage and use conditions.



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Section 11. Toxicological Information

Information on toxicological effects

Acute toxicity

Name of product or ingredient	Result	Species	Exposure	Observation
Distillates (petroleum), hydrotreated heavy paraffinic	- -	Rat Rabbit	Ingestion >15,000mg/kg LD50 Skin >5,000mg/kg LD50	- -
Distillates (petroleum), solvent-refined heavy paraffinic	- -	Rat Rat Rabbit	Ingestion >5,000mg/kg Rat LD50 Inhalation 2.18mg/l/4h Rat LC50 Skin >5,000mg/kg Rabbit LD50	- - -
Residual oils (petroleum), solvent-refined	- -	Rabbit Rat Rat Rabbit	Skin >5,000mg/kg LD50 Ingestion >5,000mg/kg LD50 Inhalation 2.18mg/l/4h LD50 Skin >5,000mg/kg LD50	- - - -

Sensitization

There is no data available.

Mutagenicity

The ingredients contained in this product having a concentration greater than or equal to 0.1% are not known to cause mutagenic effects.

Carcinogenicity

There is no data available.



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Reproductive toxicity

The ingredients contained in this product having a concentration greater than or equal to 0.1% are not known to cause any effects on reproduction.

Teratogenicity

There is no data available.

Specific target organ toxicity - single exposure -

No target organs have been identified.

Specific target organ toxicity - repeated exposure) -

No target organs have been identified.

Aspiration hazard

There is no data available.

Information on the likely routes of exposure

Delayed, immediate and chronic effects on health

Eye contact

May cause slight eye irritation. Eye irritation/corrosion, Rabbit (OECD 405): Tests performed with each ingredient in this mixture have resulted in non-irritating to slightly irritating results.

Inhalation

In general, working properly and following basic precautionary measures will greatly minimize the risk of harmful exposure to this product under normal conditions of use. Exposure to high concentrations of vapor from the heated product may cause headaches, dizziness, respiratory tract irritation.

Skin contact

Prolonged contact with skin may cause irritation and/or dermatitis. Skin irritation/corrosion, Rabbit (OECD 404): Tests performed with each ingredient in this mixture have resulted in non-irritating to slightly irritating results.



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Ingestion

Slight degree of acute toxicity. Risk of inhalation absorption into the lungs (ingestion/vomiting). May enter lungs and cause damage. However, the risk of aspiration hazard in the lungs is less likely with high viscosity oils.

Other information

The oral and dermal acute toxicity estimates (ATE) of the mixture were calculated to be greater than 2,000mg/kg. The inhalation acute toxicity estimates (ATE) of the mixture were calculated as greater than 20mg/L/4h for vapors and greater than 5mg/L/4h for aerosols and mists. These values are not classified according to WHMIS 2015 and OSHA HCS 2012.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact

Inhalation

Skin contact

Ingestion

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects

Potential delayed effects

Long term exposure

Potential immediate effects



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Potential delayed effects

Potential chronic effects

General

Carcinogenicity

Mutagenicity

Teratogenicity

Developmental effects

Fertility effects

Numbered measures of toxicity

Acute toxicity estimates

Routes

ATE value

[Route]

[Value mg/kg]

Section 12. Ecological Information

Toxicity

Name of product or ingredient	Result	Species	Exposure
Mixture		Various fish Aquatic invertebrates, miscellaneous Aquatic plant - miscellaneous	CL50 SES / NES CE50 SES / NES CE50 SES / NES

Persistence and degradability Moderately persistent in the environment. Biodegradation (<30% in 28 days). The product is a mixture of heavy hydrocarbons whose ingredients are not easily biodegradable (OECD 301B, IUCLID).



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Bioaccumulative potential LogPow values between 5 and 25 The bioconcentration factor (BCF) of the mixture is between 0.9 and 750,000. These values indicate a high degree of bioaccumulation.

Name of product or ingredient	LogP _{ow}	BCF	Potential
Mixture	5-25.	0.9-750,000	These values indicate a high degree of bioaccumulation.

Mobility in soil : Water-insoluble. This mixture is likely to have elevated Koc values (>5,000), indicating a high degree of absorption of organic matter into the soil. As a result, the components will have low mobility and some will be essentially immobile in the ground. This product pollutes water and contaminates the soil.

Other adverse effects : Due to the very low solubility of these chemicals in water, acute toxicity to fish, aquatic invertebrates as well as for aquatic plants are considered to be without saturation effect. Chronic toxicity to aquatic invertebrates is also considered to be without saturation effect. The product does not deplete the ozone layer.

Section 13. Disposal Information

Disposal methods

Important! Avoid generating waste. Use in full. DO NOT dispose of waste in sewers or waterways. Unused or used oils can be reprocessed (recycled) wherever there is a recovery program. Waste oil mixtures should be considered hazardous waste. Use an authorized specialized company for disposal. Comply with municipal, provincial and federal regulations. If necessary, consult the Department of the Environment or the competent authorities.

Section 14. Transport Information

TDG classification		IMDG	IATA
UN number	N/A	N/A	N/A
UN proper shipping name	Not regulated by TDG (Canada) and 49 CFR DOT (USA).	Not Regulated	Not Regulated



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Transport hazard class	Not Regulated		
Packing group	Not Regulated		
Environmental hazards	This product does not contain any marine pollutants.		

Section 15. Regulatory Information

Canadian lists

Canada inventory (DSL NDSL) 0

Canadian NPRI 0

Toxic substances under CEPA (Canadian Environmental Protection Act) 0

Section 16. Other Information

<u>History</u>	
Date of issue	2019-09-30
Version	2017-11-09
Version	01
Prepared by	PRODUITS LUBRI-DE1.0.LTA
Reviewed by	Harnois Énergies
Abbreviation legend	ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("MARPOL" = marine pollution)



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	UN = United Nations HPR = Hazardous Products Regulations
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