

SAFETY DATA SHEET

1. Identification

Product identifier PowerTrans TO-4 Semi-Synthetic All Season

Other means of identification NM0248-031221

Recommended use Off-highway transmission lubricant

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name

Address

Nemco Resources Ltd
25 Midland Street
Winnipeg, MB R3E 3J6

Canada

Telephone Phone: 204-788-1030

Fax: 204-788-1593

Toll Free: 855-755-6737 (M-F 8am-4:30pm)

Website www.nemco.ca/msds-safety-information

E-mail info@nemco.ca

Emergency phone number NEMCO: 855-755-6737 (M-F 8am-4:30pm)

Supplier See above.

2. Hazard identification

Physical hazards Not classified.

Health hazards Reproductive toxicity Category 2

Environmental hazards Not classified.

Label elements



Signal word Warning

Hazard statement Suspected of damaging fertility or the unborn child.

Precautionary statement

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Wear protective gloves, protective clothing, eye protection and face protection.

Response IF exposed or concerned: Get medical attention.

Storage Store locked up.

Disposal Dispose of container in accordance with local, regional, national and international regulations.

Other hazards None known.

Supplemental information None.

3. Composition/information on ingredients

Mixtures			
Chemical name	Common name and synonyms	CAS number	%
Distillates (petroleum), hydrotreated heavy paraffinic		64742-54-7	10-30*
Distillates (petroleum), hydrotreated light paraffinic		64742-55-8	1-5*
Distillates (petroleum), solvent-dewaxed heavy paraffin		64742-65-0	5-10*
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based		72623-86-0	60-80*
Petroleum distillates, solvent dewaxed light paraffinic		64742-56-9	1-5*

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Chemical name	Common name and synonyms	CAS number	%
Phenol, Dodecyl-, Branched		121158-58-5	0.1-1*
•	/ weight unless ingredient is a gas. Gas conce	•	
Composition comments	*CANADA GHS: The exact percentage (con trade secret.	centration) of composition has be	een withheld as a
	4. First-aid measure	s	
nhalation	If symptoms develop move victim to fresh ai	r. If symptoms persist, obtain me	dical attention.
Skin contact	Flush with cool water. Wash with soap and v	water. Obtain medical attention if	irritation persists.
Eye contact	Flush with cool water. Remove contact lense attention if irritation persists.		_
Ingestion	Rinse mouth. Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth if victim is unconscious or is convulsing. Obtain medical attention.		
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause tempora	ary irritation.	
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and tr	eat symptomatically. Symptoms i	may be delayed.
General information	IF exposed or concerned: Get medical atten label where possible). Show this safety data eyes and skin. Keep out of reach of children	sheet to the doctor in attendance	
	5. Fire-fighting measu	res	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Car	bon dioxide.	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as t		
Specific hazards arising from the chemical	During fire, gases hazardous to health may	be formed.	
Hazardous combustion products	May include and are not limited to: Oxides of carbon. Oxides of sulphur. Oxides of phosphorus.		
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.		in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do	so without risk.	
Specific methods	Use standard firefighting procedures and co		ved materials.
General fire hazards	No unusual fire or explosion hazards noted.		
	6. Accidental release mea	asures	
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep personnel awa	ng during clean-up. Ensure adequ	iate ventilation. Loca
Methods and materials for	Prevent entry into waterways, sewer, basem	nents or confined areas.	
containment and cleaning up	Large Spills: Stop the flow of material, if this possible. Absorb in vermiculite, dry sand or recovery, flush area with water.		
	Small Spills: Wipe up with absorbent materia remove residual contamination.	al (e.g. cloth, fleece). Clean surfa	ce thoroughly to
	Never return spills to original containers for	re-use. For waste disposal, see s	ection 13 of the SDS
Environmental precautions	Avoid discharge into drains, water courses of streams, ponds or public waters.	•	
	7. Handling and stora	ge	
Precautions for safe handling Conditions for safe storage,	Obtain special instructions before use. Do n and understood. Avoid prolonged exposure. this product. Should be handled in closed sy appropriate personal protective equipment. hygiene practices in handling this material. Store locked up. Store in tightly closed contains	Pregnant or breastfeeding women vistems, if possible. Provide adequition wash thoroughly after handling. Under using do not eat or drink.	en must not handle uate ventilation. Wea Jse good industrial
including any incompatibilities	Section 10 of the SDS). Keep out of reach o		

8. Exposure controls/Personal protection

upational exposure limits			
US. ACGIH Threshold Limit Values Components	Туре	Value	Form
Distillates (petroleum),	TWA	5 mg/m3	Inhalable fraction.
hydrotreated heavy paraffinic (CAS 64742-54-7)	1777	3 mg/mb	madbe naction.
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)	TWA	5 mg/m3	Inhalable fraction.
Distillates (petroleum), solvent-dewaxed heavy paraffin (CAS 64742-65-0)	TWA	5 mg/m3	Inhalable fraction.
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (CAS 72623-86-0)	TWA	5 mg/m3	Inhalable fraction.
Petroleum distillates, solvent dewaxed light paraffinic (CAS 64742-56-9)	TWA	5 mg/m3	Inhalable fraction.
Canada. Alberta OELs (Occupatior Components	nal Health & Safety Code, So Type	hedule 1, Table 2) Value	Form
Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)	STEL	10 mg/m3	Mist.
•	TWA	5 mg/m3	Mist.
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
Distillates (petroleum), solvent-dewaxed heavy paraffin (CAS 64742-65-0)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
Petroleum distillates, solvent dewaxed light paraffinic (CAS 64742-56-9)	STEL	10 mg/m3	Mist.
,	TWA	5 mg/m3	Mist.
Canada. British Columbia OELs. (C Safety Regulation 296/97, as amen		ts for Chemical Substances, C	Occupational Health and
Components	Туре	Value	Form
Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)	TWA	1 mg/m3	Mist.
Distillates (petroleum), solvent-dewaxed heavy paraffin (CAS 64742-65-0)	TWA	1 mg/m3	Mist.
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (CAS 72623-86-0)	TWA	1 mg/m3	Mist.
Canada. Manitoba OELs (Reg. 217/ Components	2006, The Workplace Safety Type	And Health Act) Value	Form
Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)	TWA	5 mg/m3	Inhalable fraction.
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)	TWA	5 mg/m3	Inhalable fraction.
Distillates (petroleum), solvent-dewaxed heavy paraffin (CAS 64742-65-0)	TWA	5 mg/m3	Inhalable fraction.

Components	eg. 217/2006, The Workplace Safety A Type	Value	Form
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (CAS 72623-86-0)	TWA	5 mg/m3	Inhalable fraction.
Petroleum distillates, solvent dewaxed light paraffinic (CAS 64742-56-9)	TWA	5 mg/m3	Inhalable fraction.
Canada. Ontario OELs. (Cor Components	ntrol of Exposure to Biological or Cho Type	emical Agents) Value	Form
Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)	TWA	5 mg/m3	Inhalable fraction.
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)	TWA	5 mg/m3	Inhalable fraction.
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (CAS 72623-86-0)	TWA	5 mg/m3	Inhalable fraction.
Petroleum distillates, solvent dewaxed light paraffinic (CAS 64742-56-9)	TWA	5 mg/m3	Inhalable fraction.
Canada. Quebec OELs. (Min Components	nistry of Labor - Regulation respectin Type	g occupational health and s Value	afety) Form
Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
Distillates (petroleum), solvent-dewaxed heavy paraffin (CAS 64742-65-0)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
Petroleum distillates, solvent dewaxed light paraffinic (CAS 64742-56-9)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
Canada. Saskatchewan OEL Components	s (Occupational Health and Safety R. Type	egulations, 1996, Table 21) Value	
Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)	15 minute	10 mg/m3	
	8 hour	5 mg/m3	
Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)	15 minute	10 mg/m3	
	8 hour	5 mg/m3	
Distillates (petroleum), solvent-dewaxed heavy paraffin (CAS 64742-65-0)	15 minute	10 mg/m3	
	8 hour	5 mg/m3	
Petroleum distillates, solvent dewaxed light	15 minute	10 mg/m3	
paraffinic (CAS 64742-56-9)			

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Chemical respirator with organic vapour cartridge and full facepiece. Eye/face protection

Skin protection

Impervious gloves. Confirm with reputable supplier first. **Hand protection**

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. As Other

required by employer code.

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Respiratory protection

> Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134),

CAN/CSA-Z94.4 and ANSI's standard for respiratory protection (Z88.2).

Thermal hazards Not applicable.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants. When using do not eat or drink.

9. Physical and chemical properties

Viscous **Appearance** Liquid. **Physical state Form** Liquid. Colour Amber

Mild hydrocarbon Odour **Odour threshold** Not available. Not available. Melting point/freezing point Not available. Initial boiling point and boiling Not available.

range

240.0 °C (464.0 °F) Cleveland open cup Flash point

Evaporation rate Not available. Not applicable. Flammability (solid, gas) Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

Not available. Explosive limit - lower (%) Explosive limit - upper Not available.

(%)

Vapour pressure Not available. Vapour density Not available.

0.854 Relative density

Solubility(ies)

Insoluble Solubility (water) Not available. Partition coefficient

(n-octanol/water)

Not available. Auto-ignition temperature Not available. **Decomposition temperature**

58.7 - 61 cSt @ 40°C **Viscosity**

Other information

Not explosive. **Explosive properties** Not oxidising. **Oxidising properties**

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport. **Chemical stability** Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Do not mix

with other chemicals.

Strong oxidising agents.

Incompatible materials

Hazardous decomposition

products

May include and are not limited to: Oxides of carbon. Oxides of sulphur. Oxides of phosphorus.

11. Toxicological information

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

Skin contactNo adverse effects due to skin contact are expected.Eye contactDirect contact with eyes may cause temporary irritation.IngestionMay cause stomach distress, nausea or vomiting.

Symptoms related to the physical, chemical and toxicological characteristics

Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity

Components Species Test Results

Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)

Acute

Dermal

LD50 Rabbit > 5000 mg/kg, 24 Hours, ECHA

Inhalation

LC50 Rat > 5.2 mg/L, 4 Hours, ECHA

Oral

LD50 Rat > 5000 mg/kg, ECHA

Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)

Acute

Dermal

LD50 Rabbit > 2000 mg/kg, ECHA

Inhalation

LC50 Rat > 5.5 mg/L, 4 Hours, ECHA

Oral

LD50 Rat > 5000 mg/kg, ECHA

Distillates (petroleum), solvent-dewaxed heavy paraffin (CAS 64742-65-0)

Acute

Dermal

LD50 Rabbit > 5000 mg/kg, 24 Hours, ECHA

> 2000 mg/kg, 24 Hours, ECHA

Inhalation

LC50 Rat 2.2 mg/L, 4 Hours, ECHA

Oral

LD50 Rat > 5000 mg/kg, ECHA

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (CAS 72623-86-0)

Acute

Dermal

LD50 Rabbit > 2000 mg/kg, 24 Hours, ECHA

Inhalation

LC50 Rat > 5.2 mg/L, 4 Hours, ECHA

Oral

LD50 Rat 5000 mg/kg, ECHA

Test Results Components **Species**

Petroleum distillates, solvent dewaxed light paraffinic (CAS 64742-56-9)

Acute

Dermal

LD50 Rabbit > 2000 mg/kg, 24 Hours, ECHA

Inhalation

LC50 Rat > 5.2 mg/L, 4 Hours, ECHA

Oral

LD50 Rat > 5000 mg/kg, ECHA

Phenol, Dodecyl-, Branched (CAS 121158-58-5)

Acute

Dermal

LD50 Rabbit > 15000 mg/kg

Oral

LD50 Rat 2100 mg/kg, ECHA

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Exposure minutes Not available. Erythema value Not available. Oedema value Not available.

Serious eye damage/eye

irritation

Direct contact with eyes may cause temporary irritation.

Corneal opacity value Not available. Not available. Iris lesion value Not available. Conjunctival reddening

value

Conjunctival oedema value Not available. Recover days Not available.

Respiratory or skin sensitisation

Respiratory sensitisation Not a respiratory sensitizer.

This product is not expected to cause skin sensitisation. Skin sensitisation

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

mutagenic or genotoxic.

Contains < 3% (w/w) DMSO-extract See below. Carcinogenicity

ACGIH Carcinogens

Distillates (petroleum), hydrotreated light paraffinic (CAS A2 Suspected human carcinogen.

64742-55-8)

Petroleum distillates, solvent dewaxed light paraffinic A2 Suspected human carcinogen.

(CAS 64742-56-9)

Canada - Manitoba OELs: carcinogenicity

Distillates (petroleum), hydrotreated light paraffinic (CAS Suspected human carcinogen.

64742-55-8)

Distillates (petroleum), solvent-dewaxed heavy paraffin Suspected human carcinogen.

(CAS 64742-65-0)

Petroleum distillates, solvent dewaxed light paraffinic Suspected human carcinogen.

(CAS 64742-56-9)

IARC Monographs. Overall Evaluation of Carcinogenicity

Distillates (petroleum), hydrotreated heavy paraffinic

(CAS 64742-54-7)

Volume 33, Supplement 7 - 3 Not classifiable as to carcinogenicity to humans.

Distillates (petroleum), solvent-dewaxed heavy paraffin

(CAS 64742-65-0)

Volume 33, Supplement 7 - 3 Not classifiable as to carcinogenicity

to humans.

Lubricating oils (petroleum), C15-30, hydrotreated neutral Volume 33, Supplement 7 - 3 Not classifiable as to carcinogenicity oil-based (CAS 72623-86-0)

to humans.

Reproductive toxicity Suspected of damaging fertility or the unborn child.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Not an aspiration hazard.

Chronic effects Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

	formation

See below **Ecotoxicity**

Ecotoxicological data

Components

Species Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)

Crustacea EC50 Daphnia 1000 mg/L, 48 Hours

Distillates (petroleum), hydrotreated light paraffinic (CAS 64742-55-8)

EC50 1000 mg/L, 48 Hours Crustacea Daphnia

Distillates (petroleum), solvent-dewaxed heavy paraffin (CAS 64742-65-0)

Crustacea EC50 Daphnia 1000 mg/L, 48 Hours

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (CAS 72623-86-0)

Crustacea FC50 Daphnia 1000 mg/L, 48 Hours

Petroleum distillates, solvent dewaxed light paraffinic (CAS 64742-56-9)

EC50 1000 mg/L, 48 Hours Crustacea Daphnia

Persistence and degradability

No data is available on the degradability of any ingredients in the mixture.

Bioaccumulative potential

No data available. Mobility in soil Mobility in general Not available

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation Other adverse effects

potential, endocrine disruption, global warming potential) are expected from this component.

Test Results

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

contents/container in accordance with local/regional/national/international regulations.

Dispose in accordance with all applicable regulations. Local disposal regulations

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Since emptied containers may retain product residue, follow label warnings even after container is Contaminated packaging

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

14. Transport information

Canada: TDG Proof of Classification: Classification Method: Classified as per Part 2, Sections General

2.1 – 2.8 of the Transportation of Dangerous Goods Regulations. If applicable, the technical

name and the classification of the product will appear below.

Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

15. Regulatory information

Canadian federal regulations

This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Not listed.

Precursor Control Regulations

Not regulated.

WHMIS status Hazardous

International regulations

Inventory status

Country(s) or region Inventory name On inventory (yes/no)*

Domestic Substances List (DSL) Canada

No

Canada Non-Domestic Substances List (NDSL)

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

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Yes

16. Other information

4
3
2
1
0

HEALTH 1 0 **FLAMMABILITY** 0 **PHYSICAL HAZARD PERSONAL PROTECTION**



Issue date **Revision date**

20-April-2021 20-April-2021

Version No.

Other information

For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.

Disclaimer

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Prepared by

Dell Tech Laboratories Ltd. Phone: (519) 858-5021