

SAFETY DATA SHEET

1. Identification

Product identifier Two-Stroke Engine Oil

Other means of identification 0530

Recommended use Two-Stroke Engine Oil

Recommended restrictions Not for food, drug, or household use.

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 hazardsFlammable liquidsCategory 4Health hazardsSkin corrosion/irritationCategory 2CarcinogenicityCategory 1B

Environmental hazards Not classified.

Label elements



Signal word Danger

Hazard statement Combustible liquid. Causes skin irritation. May cause cancer.

Precautionary statement

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

and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wash thoroughly after handling. Wear protective gloves, protective

clothing, eye protection and face protection.

Response In case of fire: Use appropriate media to extinguish.

IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash it before reuse. Specific treatment (see information on this label).

IF exposed or concerned: Get medical attention.

Storage Store in a well-ventilated place. 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), hydrodesulphurised middle		64742-80-9	10-30*
Distillates (petroleum), hydrotreate heavy paraffinic	d	64742-54-7	60-80*
Hydrogen sulphide		7783-06-4	0.1-1*

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Chemical name Common name and synonyms **CAS** number 91-20-3 0.1-1* Naphthalene All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition comments

*CANADA GHS: The exact percentage (concentration) of composition has been withheld as a

4. First-aid measures

Inhalation If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.

Skin contact IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Specific treatment (see information on this label). Take off contaminated clothing and wash it

before reuse.

Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medical Eye contact

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

Dizziness. Direct contact with eyes may cause temporary irritation. Skin irritation. May cause

redness and pain.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Symptoms may be delayed.

General information

IF exposed or concerned: Get medical attention. If you feel unwell, seek medical advice (show the label where possible). Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

5. Fire-fighting measures

Suitable extinguishing media Foam. Dry chemical powder. Water fog. Carbon dioxide.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

The product is combustible, and heating may generate vapours which may form explosive vapour/air mixtures. During fire, gases hazardous to health may be formed.

Hazardous combustion

products

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

Special protective equipment

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

and precautions for firefighters equipment/instructions

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Specific methods General fire hazards Use standard firefighting procedures and consider the hazards of other involved materials.

Combustible liquid.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil etc) away from spilled material. The product is immiscible with water and will spread on the water surface. Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground. Do not discharge into lakes, streams, ponds or public waters.

7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from open flames, hot surfaces and sources of ignition. When using do not smoke. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash thoroughly after handling. Use good industrial hygiene practices in handling this material. When using do not eat or drink.

Conditions for safe storage, including any incompatibilities

(CAS 64742-80-9)

Store locked up. Keep away from heat, sparks and open flame. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS). Keep out of reach of children.

upational exposure limits			
US. ACGIH Threshold Limit Values			
Components	Туре	Value	Form
Distillates (petroleum), hydrodesulphurised middle (CAS 64742-80-9)	TWA	5 mg/m3	Inhalable fraction.
Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)	TWA	5 mg/m3	Inhalable fraction.
Hydrogen sulphide (CAS 7783-06-4)	STEL	5 ppm	
	TWA	1 ppm	
Naphthalene (CAS 91-20-3)	TWA	10 ppm	
Canada. Alberta OELs (Occupation	al Health & Safety Code. Sch	edule 1, Table 2)	
Components	Туре	Value	Form
Distillates (petroleum), hydrodesulphurised middle (CAS 64742-80-9)	TWA	1590 mg/m3	
,		400 ppm	
Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
Hydrogen sulphide (CAS 7783-06-4)	Ceiling	21 mg/m3	
		15 ppm	
	TWA	14 mg/m3	
		10 ppm	
Naphthalene (CAS 91-20-3)	STEL	79 mg/m3 15 ppm	
	TWA	52 mg/m3 10 ppm	
Canada. British Columbia OELs. (C Safety Regulation 296/97, as amen		for Chemical Substances, O	ccupational Health and
Components	Туре	Value	Form
Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)	TWA	1 mg/m3	Mist.

Components	Type	Value	Form
Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)	TWA	1 mg/m3	Mist.
Hydrogen sulphide (CAS 7783-06-4)	Ceiling	10 ppm	
Naphthalene (CAS 91-20-3)	TWA	10 ppm	
Canada. Manitoba OELs (Reg. 217	/2006, The Workplace Safety	And Health Act)	
Components	Туре	Value	Form
Distillates (petroleum), hydrodesulphurised middle	TWA	5 mg/m3	Inhalable fraction.

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Components	g. 217/2006, The Workplace Safety <i>I</i> Type	Value	Form
Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)	TWA	5 mg/m3	Inhalable fraction.
Hydrogen sulphide (CAS 7783-06-4)	STEL	5 ppm	
	TWA	1 ppm	
Naphthalene (CAS 91-20-3)	TWA	10 ppm	
Canada - New Brunswick Components	Туре	Value	
Hydrogen sulphide (CAS 7783-06-4)	STEL	21 mg/m3	
,		15 ppm	
	TWA	14 mg/m3 10 ppm	
Canada. Ontario OELs. (Con Components	trol of Exposure to Biological or Ch Type	emical Agents) Value	Form
Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)	TWA	5 mg/m3	Inhalable fraction.
Hydrogen sulphide (CAS 7783-06-4)	STEL	15 ppm	
,	TWA	10 ppm	
Naphthalene (CAS 91-20-3)	TWA	10 ppm	
Canada. Quebec OELs. (Min Components	istry of Labor - Regulation respectir Type	ng occupational health and sa Value	afety) Form
Distillates (petroleum), hydrodesulphurised middle (CAS 64742-80-9)	TWA	1000 mg/m3	
Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
Hydrogen sulphide (CAS 7783-06-4)	STEL	21 mg/m3	
		15 ppm	
	TWA	14 mg/m3 10 ppm	
Canada. Saskatchewan OEL Components	s (Occupational Health and Safety F Type	Regulations, 1996, Table 21) Value	
Distillates (petroleum), hydrodesulphurised middle (CAS 64742-80-9)	15 minute	500 ppm	
•	8 hour	400 ppm	
Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)	15 minute	10 mg/m3	
	8 hour	5 mg/m3	
Hydrogen sulphide (CAS 7783-06-4)	15 minute	15 ppm	
	8 hour	10 ppm	
Naphthalene (CAS 91-20-3)	15 minute	15 ppm	
	8 hour	10 ppm	
ogical limit values	No biological exposure limits noted for	or the ingredient(s).	

Canada - Alberta OELs: Skin designation

Naphthalene (CAS 91-20-3)

Can be absorbed through the skin.

Canada - British Columbia OELs: Skin designation

Naphthalene (CAS 91-20-3)

Can be absorbed through the skin.

Canada - Manitoba OELs: Skin designation

Naphthalene (CAS 91-20-3) Danger of cutaneous absorption

Canada - Ontario OELs: Skin designation

Naphthalene (CAS 91-20-3)

Can be absorbed through the skin.

Canada - Quebec OELs: Skin designation

Naphthalene (CAS 91-20-3)

Can be absorbed through the skin.

Canada - Saskatchewan OELs: Skin designation

Naphthalene (CAS 91-20-3) Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

Naphthalene (CAS 91-20-3) Danger of cutaneous absorption

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

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Impervious gloves. Confirm with reputable supplier first.

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

required by employer code.

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

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

When using do not smoke. 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

AppearanceLiquidPhysical stateLiquid.FormLiquid.ColourBlue

Odour Mild hydrocarbon
Odour threshold Not available.

pH Not available.

Melting point/freezing point Not available.

Initial boiling point and boiling Not available.

range

Flash point

> 77.0 °C (> 170.6 °F) Closed cup

Evaporation rate < 1 (BuAc = 1)
Flammability (solid, gas) Not applicable.
Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

(%)

Explosive limit - lower (%) Not available.

Explosive limit - upper Not available.

(%)

Vapour pressure

< 0.13 hPa @ 20°C

Vapour density

Not available.

Relative density

0.87 - 0.88

Solubility(ies)

Solubility (water) Insoluble

Partition coefficient (n-octanol/water)

Not available.

Auto-ignition temperature

> 204.44 °C (> 399.99 °F)

Decomposition temperature Viscosity

Not available. 51.8 cSt @ 40°C

Other information

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

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. Avoid

temperatures exceeding the flash point. Do not mix with other chemicals.

Incompatible materials

Hazardous decomposition

products

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

11. Toxicological information

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

Skin contact Causes skin irritation.

Eye contact Direct contact with eyes may cause temporary irritation.

Strong oxidising agents.

Ingestion May cause stomach distress, nausea or vomiting.

Symptoms related to the physical, chemical and toxicological characteristics Dizziness. Skin irritation. May cause redness and pain.

Information on toxicological effects

See below. **Acute toxicity**

Test Results Components **Species**

Distillates (petroleum), hydrodesulphurised middle (CAS 64742-80-9)

Acute

Dermal

LD50 Rabbit > 2000 mg/kg, ECHA

Inhalation

LC50 Rat 4.6 mg/L, 4 Hours, ECHA

Oral

LD50 Rat > 5000 mg/kg, ECHA

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 > 5000 mg/kg, ECHA Rat

Hydrogen sulphide (CAS 7783-06-4)

Acute

Dermal

LD50 Rat 124 mg/kg, ECHA

Inhalation

LC50 Rat 621 mg/m3, ECHA

Oral

LD50 Rat 49 mg/kg, ECHA

Test Results Components **Species**

Naphthalene (CAS 91-20-3)

Acute

Inhalation

LC50 Rat > 0.4 mg/L, 4 Hours, ECHA

Oral

LD50 Rat > 2000 mg/kg, ECHA

Causes skin irritation. Skin corrosion/irritation

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

Serious eye damage/eye

irritation

Direct contact with eyes may cause temporary irritation.

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

value

Conjunctival oedema value Not available. Not available. Recover days

Respiratory or skin sensitisation

Respiratory sensitisation Not a respiratory sensitizer.

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

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

mutagenic or genotoxic.

Carcinogenicity May cause cancer. See below.

ACGIH Carcinogens

Distillates (petroleum), hydrodesulphurised middle (CAS A2 Suspected human carcinogen.

64742-80-9)

Distillates (petroleum), hydrotreated heavy paraffinic

(CAS 64742-54-7)

Naphthalene (CAS 91-20-3)

A3 Confirmed animal carcinogen with unknown relevance to

humans.

to humans.

A2 Suspected human carcinogen.

Suspected human carcinogen.

Confirmed animal carcinogen with unknown relevance to humans.

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

Canada - Manitoba OELs: carcinogenicity

Distillates (petroleum), hydrodesulphurised middle (CAS

64742-80-9)

Distillates (petroleum), hydrotreated heavy paraffinic Suspected human carcinogen.

(CAS 64742-54-7)

Naphthalene (CAS 91-20-3) Canada - Quebec OELs: Carcinogen category

Naphthalene (CAS 91-20-3) Detected carcinogenic effect in animals.

IARC Monographs. Overall Evaluation of Carcinogenicity

Distillates (petroleum), hydrotreated heavy paraffinic

(CAS 64742-54-7)

Naphthalene (CAS 91-20-3)

Volume 82 - 2B Possibly carcinogenic to humans.

Reproductive toxicity Not applicable. Specific target organ toxicity -Not classified.

single exposure

Specific target organ toxicity -Not classified.

repeated exposure

Aspiration hazard Not an aspiration hazard.

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

Further information Not available.

12. Ecological information

See below **Ecotoxicity**

Ecotoxicological data Components		Species	Test Results	
Distillates (petroleum), hydrodesi	ulphurised m	-	Tool Noodile	
Aquatic	'	(
Crustacea	EC50	Water flea (Daphnia pulex)	2.7 - 5.1 mg/L, 48 hours	
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	8.8 mg/L, 96 hours	
			8.8 mg/L, 96 hours	
Distillates (petroleum), hydrotrea	ted heavy pa	raffinic (CAS 64742-54-7)		
Crustacea	EC50	Daphnia	1000 mg/L, 48 Hours	
Hydrogen sulphide (CAS 7783-0	6-4)			
Aquatic				
Fish	LC50	Bluegill (Lepomis macrochirus)	0.009 mg/L, 96 hours	
Naphthalene (CAS 91-20-3)				
Algae	IC50	Algae	0.4 mg/L, 72 Hours	
Crustacea	EC50	Daphnia	2.16 mg/L, 48 Hours	
Aquatic				
Crustacea	EC50	Water flea (Daphnia magna)	1.09 - 3.4 mg/L, 48 hours	
Fish	LC50	Pink salmon (Oncorhynchus gorbuscha)	1.11 - 1.68 mg/L, 96 hours	
Persistence and degradability	No data i	s available on the degradability of any ingredie	nts in the mixture.	
Bioaccumulative potential				
Mobility in soil	No data a	No data available.		
Mobility in general	Not availa	Not available.		
Other adverse effects		No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.		
		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.		
Local disposal regulations	Dispose i	Dispose in accordance with all applicable 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	product re	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).		
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or			

disposal.

14. Transport information

General

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

Canada CEPA Schedule I: Listed substance

Naphthalene (CAS 91-20-3) Canada DSL Challenge Substances: Listed substance

Listed.

Naphthalene (CAS 91-20-3) Listed

Canada NPRI VOCs with Additional Reporting Requirements: Mass reporting threshold/Identification Number

Distillates (petroleum), hydrodesulphurised middle (CAS 1 TONNES

64742-80-9)

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 regionInventory nameOn inventory (yes/no)*CanadaDomestic Substances List (DSL)YesCanadaNon-Domestic Substances List (NDSL)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)

16. Other information



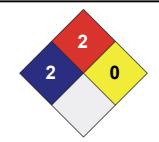
HEALTH * 2

FLAMMABILITY 2

PHYSICAL HAZARD 0

PERSONAL X

PROTECTION X



Issue date09-December-2021Revision date09-December-2021

Version No. 01

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

document.

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