

SAFETY DATA SHEET

1. Identification

Product identifier PolarZone™ Washer Fluid -50, Nemco Washer Fluid -50

Other means of identification NM0802-021921

Recommended use Windshield washer fluid

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

TelephonePhone: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 3Health hazardsAcute toxicity, oralCategory 3Acute toxicity, dermalCategory 3Acute toxicity, inhalationCategory 3Reproductive toxicityCategory 1B

Specific target organ toxicity following single Category 1

exposure

Environmental hazards Not classified.

Label elements



Signal word Danger

Hazard statement Flammable liquid and vapour. Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled. May

damage fertility or the unborn child. Causes damage to organs.

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. Use explosion-proof electrical, ventilating and lighting equipment. Keep container tightly closed. Ground and bond container and receiving equipment. Use non-sparking tools. Take action to prevent static discharges. Wear protective gloves, protective clothing, eye protection and face protection. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid breathing mist or vapour. Use only outdoors or in a well-ventilated area.

Response In case of fire: Use appropriate media to extinguish. IF ON SKIN (or hair): Take off immediately all

contaminated clothing. Rinse skin with water or shower. Call a POISON CENTRE if you feel unwell. Take off immediately all contaminated clothing and wash it before reuse.

IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth.

IF INHALED: remove person to fresh air and keep comfortable for breathing. Call a POISON

CENTER or doctor. Specific treatment (see information on this label).

IF exposed or concerned: Get medical attention.

Storage Store locked up. Store in a well-ventilated place. Keep cool. Keep container tightly closed.

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

Other hazards None known.

3. Composition/information on ingredients	ts	inaredien	on	ormation	/inf	ition	posi	Com	3.
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Chemical name	Common name and synonyms	CAS number	%
Methanol		67-56-1	30-60*

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 trade secret in accordance with the amended HPR as of April 2018.

4. First-aid measures

Inhalation IF INHALED: remove person to fresh air and keep comfortable for breathing. Call a POISON

CENTER or doctor. Specific treatment (see information on this label).

Skin contact IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

Specific treatment (see information on this label). Take off contaminated clothing and wash it

before reuse. Call a POISON CENTER or doctor if you feel unwell.

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

attention if irritation persists.

Ingestion IF SWALLOWED: Immediately call a POISON CENTRE or doctor. Rinse mouth. Specific

treatment (see information on this label).

Most important symptoms/effects, acute and

delayed

Direct contact with eyes may cause temporary irritation. Symptoms may include stomach distress,

nausea or vomiting.

Indication of immediate medical attention and special treatment needed

Symptoms may be delayed. Treat patient symptomatically.

General information

IF exposed or concerned: Get medical advice. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Avoid contact with eyes, skin and clothing. Keep out of reach of children.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide. Do not use water jet as an extinguisher, as this will spread the fire.

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

Specific hazards arising from

the chemical
Hazardous combustion

Vapours may form explosive mixtures with air. Vapours may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

products
Special protective equipment

nent

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

and precautions for firefighters

Move containers from fire area if you can do so without risk.

Fire fighting equipment/instructions Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards

Flammable liquid and vapour.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep people away from and upwind of spill/leak. Keep out of low areas. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not breathe mist or vapour. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up

Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Never return spills in original containers for re-use. Clean surface thoroughly to remove residual contamination. Following product recovery, flush area with water. Prevent entry into waterways, sewer, basements or confined areas.

Environmental precautions

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. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Vapours may form explosive mixtures with air. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Avoid contact with eyes, skin and clothing. Wear appropriate personal protective equipment. Do not breathe mist or vapour. Do not taste or swallow. Avoid contact during pregnancy/while nursing. Avoid prolonged exposure. Use only outdoors or in a well-ventilated area. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Wash contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Keep container tightly closed. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Keep out of the reach of children.

8. Exposure controls/Personal protection

US. ACGIH Threshold Limit Values

Components	Туре	Value
Methanol (CAS 67-56-1)	STEL	250 ppm
	TWA	200 ppm

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Type	Value
Methanol (CAS 67-56-1)	STEL	328 mg/m3 250 ppm
	TWA	262 mg/m3 200 ppm

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Туре	Value
Methanol (CAS 67-56-1)	STEL	250 ppm
	TWA	200 ppm

Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

Components	Туре	Value
Methanol (CAS 67-56-1)	STEL	250 ppm
	TWA	200 ppm

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Components	Туре	Value
Methanol (CAS 67-56-1)	STEL	250 ppm
	TWA	200 ppm

Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety)

Components	Туре	Value
Methanol (CAS 67-56-1)	STEL	328 mg/m3
		250 ppm
	TWA	262 mg/m3
		200 nnm

Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21)

Components	Type	Value
Methanol (CAS 67-56-1)	15 minute	250 ppm
	8 hour	200 ppm

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
Methanol (CAS 67-56-1)	15 mg/L	Methanol	Urine	*

^{* -} For sampling details, please see the source document.

Exposure guidelines

See above

Canada - Alberta OELs: Skin designation

Methanol (CAS 67-56-1)

Can be absorbed through the skin.

Canada - British Columbia OELs: Skin designation

Methanol (CAS 67-56-1)

Can be absorbed through the skin.

Canada - Manitoba OELs: Skin designation

Methanol (CAS 67-56-1)

Canada - Ontario OELs: Skin designation

Methanol (CAS 67-56-1) Can be absorbed through the skin.

Canada - Quebec OELs: Skin designation

Methanol (CAS 67-56-1) Can be absorbed through the skin.

Canada - Saskatchewan OELs: Skin designation

Methanol (CAS 67-56-1)

Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

Methanol (CAS 67-56-1) 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.

Danger of cutaneous absorption

Individual protection measures, such as personal protective equipment

Eye/face protection Chemical goggles are recommended.

Skin protection

Hand protection Wear protective gloves.

Other 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

Handle in accordance with good industrial hygiene and safety practices. Wash hands after

handling and before eating. When using, do not eat, drink or smoke.

9. Physical and chemical properties

Appearance Clear
Physical state Liquid.
Form Liquid
Colour Blue
Odour Alcohol
Odour threshold Not available.

pH Not applicable

Melting point/freezing point -50 °C (-58 °F)

Initial boiling point and boiling 78 °C (172.4 °F)

range

Flash point 27.0 °C (80.6 °F) TCC

Evaporation rate Not available.
Flammability (solid, gas) Not available.
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 pressureNot available.Vapour densityNot available.

Relative density

0.924

Solubility(ies)

Solubility (water) Complete

Partition coefficient (n-octanol/water)

Not available.

Auto-ignition temperature Decomposition temperature

Not available. Not available

Viscosity

Not available

10. Stability and reactivity

Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Possibility of hazardous Material is stable under normal conditions.

reactions

Hazardous polymerisation does not occur.

Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources. Do not mix with other chemicals.

Incompatible materials

Acids. Alkalis. Strong oxidising agents.

Hazardous decomposition

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

products

11. Toxicological information

Information on likely routes of exposure

Inhalation Toxic by inhalation. May cause damage to organs by inhalation.

Skin contact Toxic in contact with skin.

Eve contact No adverse effects due to eye contact are expected.

Toxic if swallowed. Ingestion

Symptoms related to the physical, chemical and toxicological characteristics Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Information on toxicological effects

Acute toxicity Toxic by inhalation. Toxic in contact with skin. Toxic if swallowed.

> Although the lethal dose of methanol is high for most experimental animals (> 2000 mg/kg bw after single oral administration) these data are not employed for classification. The classification is only based upon the experiences in humans and classifies methanol as acutely toxic by oral, dermal and inhalative exposure and, furthermore, as capable of inducing serious irreversible

effects upon single exposure by all of these routes. (ECHA 2020)

Methanol (CAS 67-56-1)

Acute

Components

Dermal

Rabbit LD50 17100 mg/kg, ECHA

Inhalation

LC50 Cat 43.7 mg/L, 6 Hours, ECHA

Oral

LD50 Human 143 - 300 mg/kg, HSNO

CCID/Sigma-Aldrich

Test Results

1187 - 2769 mg/kg, ECHA Rat

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

Species

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

Serious eye damage/eye

irritation

No adverse effects due to eye contact are expected.

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

Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity Not available.

Reproductive toxicityMay damage fertility or the unborn child. **Specific target organ toxicity -**Causes damage to organs. Kidneys. Liver.

single exposure

Specific target organ toxicity -

repeated exposure

Not classified

Aspiration hazard Not classified.

Chronic effects Causes damage to organs.

Further information Not available.

12. Ecological information

Ecotoxicity See below

Ecotoxicological data

Components Species Test Results

Methanol (CAS 67-56-1)

Aquatic

Crustacea EC50 Water flea (Daphnia magna) > 10000 mg/L, 48 hours
Fish LC50 Fathead minnow (Pimephales promelas) > 100 mg/L, 96 hours

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potentialNo data available.Mobility in soilNo data available.Mobility in generalNot 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

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

Local disposal regulations

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

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

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

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)

Basic shipping requirements:

UN number UN1230

Proper shipping name METHANOL SOLUTION

Hazard class 3
Subsidiary hazard class 6.1
Packing group II
Special provisions 43



15. Regulatory information

Canadian federal regulations

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (SOR/2015-17) and the SDS contains all the information required by the HPR.

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

Methanol (CAS 67-56-1)

1 TONNES

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

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

16. Other information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

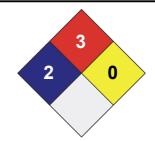
HEALTH * 2

FLAMMABILITY 3

PHYSICAL HAZARD 0

PERSONAL X

PROTECTION X



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Version No. 0

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

document.

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