

# SAFETY DATA SHEET



### 1. Identification

Product identifier PolarZone™ Global HD Antifreeze/Coolant Concentrate

Other means of identification NM0064-053019

Recommended use Heavy-duty vehicle engine antifreeze/coolant

**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 hazards Not classified.

Health hazards Reproductive toxicity Category 1B

Specific target organ toxicity following

repeated exposure

Environmental hazards Not classified.

Label elements



Signal word Danger

**Hazard statement** May damage fertility or the unborn child. Causes damage to organs through prolonged or

repeated exposure.

Precautionary statement

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

and understood. Do not breathe mist or vapour. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves, protective clothing, eye protection and

Category 1

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	%
Ethylene glycol		107-21-1	80-100
Potassium P-tert-butylbenzoa	te	16518-26-6	5-10

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.

4. First-aid measures

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

Skin contact Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists.

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

attention if irritation persists.

Rinse mouth. Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to Ingestion

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. Nausea, vomiting. Prolonged exposure may cause chronic effects.

Indication of immediate medical attention and special Provide general supportive measures and treat symptomatically. Symptoms may be delayed.

treatment needed **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

Unsuitable extinguishing media

Foam. Water fog. Dry chemical. Carbon dioxide.

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

Specific hazards arising from the chemical

**Hazardous combustion** 

During fire, gases hazardous to health may be formed.

products

Special protective equipment and precautions for firefighters May include and are not limited to: Oxides of carbon.

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

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

Fire fighting equipment/instructions

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

No unusual fire or explosion hazards noted.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapour. 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 Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

**Environmental precautions** 

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. 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. Avoid prolonged exposure. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. 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 Store locked up. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). Keep out of reach of children.

	8. Exposure controls/Per	sonal protection	
upational exposure limits			
US. ACGIH Threshold Lim Components	nit Values Type	Value	Form
Ethylene glycol (CAS	STEL	10 mg/m3	Aerosol, inhalable.
107-21-1)	STEE	· ·	
		50 ppm	Vapor fraction
	TWA	25 ppm	Vapor fraction
•	ccupational Health & Safety Code, Sch		
Components  Ethylone glycol (CAS)	Type	Value	
Ethylene glycol (CAS 107-21-1)	Ceiling	100 mg/m3	
Canada. British Columbia	OELs. (Occupational Exposure Limits	for Chemical Substances, O	ccupational Health and
Safety Regulation 296/97,		Value	Form
Components	Type		
Ethylene glycol (CAS 107-21-1)	Ceiling	100 mg/m3	Aerosol
,		50 ppm	Vapour.
	STEL	20 mg/m3	Particulate.
	TWA	10 mg/m3	Particulate.
	Reg. 217/2006, The Workplace Safety A	And Health Act)	
Components	Туре	Value	Form
Ethylene glycol (CAS	STEL	10 mg/m3	Aerosol, inhalable.
107-21-1)		50 ppm	Vapor fraction
	TWA	25 ppm	Vapor fraction
Canada. New Brunswick (	OELs: Threshold Limit Values (TLVs) B	Based on the 2016 ACGIH TL\	/s and BEIs
	ick Regulation 91-191), as amended		. C uu = =C
Components	Туре	Valu	e Form
	Ceiling	100 mg/m3	Aerosol
Ethylene glycol (CAS 107-21-1)  Canada. Ontario OELs. (C	ontrol of Exposure to Biological or Ch	emical Agents)	
107-21-1) Canada. Ontario OELs. (C	control of Exposure to Biological or Ch Type	emical Agents) Value	Form
107-21-1)  Canada. Ontario OELs. (C Components  Ethylene glycol (CAS		<u> </u>	Form Aerosol, inhalable.
Canada. Ontario OELs. (C Components Ethylene glycol (CAS 107-21-1)	Type STEL	Value 10 mg/m3	Aerosol, inhalable.
Canada. Ontario OELs. (C Components Ethylene glycol (CAS 107-21-1)	Туре	Value 10 mg/m3	Aerosol, inhalable.
Canada. Ontario OELs. (C Components Ethylene glycol (CAS 107-21-1) Canada. Quebec OELs. (N Components Ethylene glycol (CAS	Type STEL  Ministry of Labor - Regulation respecting	Value 10 mg/m3 ng occupational health and sa	Aerosol, inhalable.
Canada. Ontario OELs. (C Components Ethylene glycol (CAS 107-21-1) Canada. Quebec OELs. (N Components	Type  STEL  Ministry of Labor - Regulation respecting Type	Value 10 mg/m3  ng occupational health and sa Value 127 mg/m3	Aerosol, inhalable.  afety) Form  Vapor and mist.
Canada. Ontario OELs. (C Components Ethylene glycol (CAS 107-21-1) Canada. Quebec OELs. (N Components Ethylene glycol (CAS 107-21-1)	Type  STEL  Ministry of Labor - Regulation respectin Type  Ceiling	Value 10 mg/m3  ng occupational health and sa Value 127 mg/m3 50 ppm	Aerosol, inhalable.  afety) Form
Canada. Ontario OELs. (CComponents  Ethylene glycol (CAS 107-21-1)  Canada. Quebec OELs. (NComponents  Ethylene glycol (CAS 107-21-1)  Canada. Saskatchewan O	Type  STEL  Ministry of Labor - Regulation respecting  Ceiling  ELs (Occupational Health and Safety F	Value 10 mg/m3  ng occupational health and so Value 127 mg/m3 50 ppm  Regulations, 1996, Table 21)	Aerosol, inhalable.  afety) Form  Vapor and mist.
107-21-1)  Canada. Ontario OELs. (C Components  Ethylene glycol (CAS 107-21-1)  Canada. Quebec OELs. (N Components  Ethylene glycol (CAS 107-21-1)  Canada. Saskatchewan O Components	Type  STEL  Ministry of Labor - Regulation respectin Type  Ceiling  ELs (Occupational Health and Safety R Type	Value 10 mg/m3  ng occupational health and sa Value 127 mg/m3 50 ppm  Regulations, 1996, Table 21) Value	Aerosol, inhalable.  afety) Form  Vapor and mist.  Vapor and mist.  Form
Canada. Ontario OELs. (CComponents  Ethylene glycol (CAS 107-21-1)  Canada. Quebec OELs. (NComponents  Ethylene glycol (CAS 107-21-1)  Canada. Saskatchewan O	Type  STEL  Ministry of Labor - Regulation respecting  Ceiling  ELs (Occupational Health and Safety F	Value 10 mg/m3  ng occupational health and so Value 127 mg/m3 50 ppm  Regulations, 1996, Table 21)	Aerosol, inhalable.  afety) Form  Vapor and mist.  Vapor and mist.
107-21-1)  Canada. Ontario OELs. (C Components  Ethylene glycol (CAS 107-21-1)  Canada. Quebec OELs. (N Components  Ethylene glycol (CAS 107-21-1)  Canada. Saskatchewan O Components  Ethylene glycol (CAS	Type  STEL  Ministry of Labor - Regulation respectin Type  Ceiling  ELs (Occupational Health and Safety R Type	Value 10 mg/m3  ng occupational health and so Value 127 mg/m3 50 ppm Regulations, 1996, Table 21) Value 100 mg/m3	Aerosol, inhalable.  afety) Form  Vapor and mist.  Vapor and mist.  Form

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. As required by employer code.

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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

Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practices. When using do not eat or drink.

## 9. Physical and chemical properties

Clear Liquid **Appearance** Liquid. **Physical state Form** Liquid. Colour Dark yellow. Mild Odour

Not available. **Odour threshold** 

8 - 9

Melting point/freezing point Not available. Initial boiling point and boiling

range

> 180 °C (> 356 °F)

Flash point 111.0 °C (231.8 °F)

**Evaporation rate** Not available. Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

Not available.

Explosive limit - lower (%) Explosive limit - upper

Not available. Not available.

(%)

Not available.

Vapour pressure Not available. Vapour density

Relative density 1.124

Solubility(ies)

Soluble Solubility (water)

Partition coefficient (n-octanol/water)

Not available.

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

Other information

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

# 10. Stability and reactivity

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

**Chemical stability** Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Do not mix with other chemicals.

Incompatible materials Strong oxidising agents.

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.

No adverse effects due to skin contact are expected. Skin contact Eve contact Direct contact with eyes may cause temporary irritation.

May cause stomach distress, nausea or vomiting. Ingestion

Symptoms related to the physical, chemical and toxicological characteristics Dizziness. Nausea, vomiting.

Information on toxicological effects

**Acute toxicity** See below.

Components **Species Test Results** 

Ethylene glycol (CAS 107-21-1)

Acute Dermal

LD50 Mouse > 3500 mg/kg, ECHA

Inhalation

LC50 Rat > 2.5 mg/L, 6 Hours, ECHA

Oral

LD50 Rat 7712 mg/kg, ECHA

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

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

Serious eye damage/eye

irritation

Direct contact with eyes may cause temporary irritation.

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

value

Conjunctival oedema value Not available. Not available. Recover days

Respiratory or skin sensitisation Canada - Alberta OELs: Irritant

> Ethylene glycol (CAS 107-21-1) Irritant

Respiratory sensitisation Not a respiratory sensitizer.

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

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

mutagenic or genotoxic.

Carcinogenicity See below.

May damage fertility or the unborn child. Reproductive toxicity

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Causes damage to organs through prolonged or repeated exposure.

**Aspiration hazard** Not an aspiration hazard.

Chronic effects Prolonged inhalation may be harmful.

**Further information** Not available.

12. Ecological information

See below **Ecotoxicity** 

**Ecotoxicological data** 

Components **Species Test Results** 

Ethylene glycol (CAS 107-21-1)

Crustacea EC50 Daphnia 46300 mg/L, 48 Hours

Aquatic

Fish LC50 Fathead minnow (Pimephales promelas) 8050 mg/L, 96 hours

Persistence and degradability No data is available on the degradability of any ingredients in the mixture. **Bioaccumulative potential** 

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

container in accordance with local, regional, national and 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 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

Listed

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 Priority Substances List (Second List): Listed substance

Ethylene glycol (CAS 107-21-1)

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)\*

 Canada
 Domestic Substances List (DSL)
 No

 Canada
 Non-Domestic Substances List (NDSL)
 Yes

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

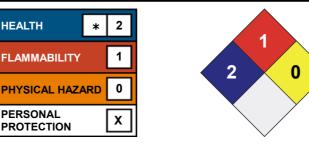


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Other information For an updated SDS, please contact the supplier/manufacturer listed on the first page of the

document.



### Disclaimer

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