

SAFETY DATA SHEET



1. Identification

Product identifier PolarZone™ Global ELC Antifreeze/Coolant Concentrate

Other means of identification NM0060-053019

Recommended use Gasoline and light-duty truck 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

Label elements



Not classified.

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	1-5

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.

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.

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

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

Most important symptoms/effects, acute and delayed

Indication of immediate medical attention and special treatment needed

General information

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

IF exposed or concerned: Get medical attention. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

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5. Fire-fighting measures		
Suitable extinguishing media	Foam. Water fog. Dry chemical. 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	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 and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn 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 consider the hazards of other involved materials.	
General fire hazards	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/Personal protection

Occupational exposure limits			
US. ACGIH Threshold Limit Valu	ues		
Components	Туре	Value	Form
Ethylene glycol (CAS 107-21-1)	STEL	10 mg/m3	Aerosol, inhalable.

US. ACGIH	Threshold	Limit	Values
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US. ACGIH Threshold Lim Components	iit values	Туре	Value	Form
			50 ppm	Vapor fraction
		TWA	25 ppm	Vapor fraction
•	ccupational Heal	th & Safety Code, Schedul		
Components		Туре	Value	
Ethylene glycol (CAS 107-21-1)		Ceiling	100 mg/m3	
Canada. British Columbia Safety Regulation 296/97,		tional Exposure Limits for	Chemical Substances, Od	ccupational Health and
Components		Туре	Value	Form
Ethylene glycol (CAS 107-21-1)		Ceiling	100 mg/m3	Aerosol
			50 ppm	Vapour.
		STEL	20 mg/m3	Particulate.
		TWA	10 mg/m3	Particulate.
Canada. Manitoba OELs (Reg. 217/2006, T	he Workplace Safety And I	Health Act)	
Components		Туре	Value	Form
Ethylene glycol (CAS 107-21-1)		STEL	10 mg/m3	Aerosol, inhalable.
			50 ppm	Vapor fraction
		TWA	25 ppm	Vapor fraction
Canada. New Brunswick (Publication (New Brunsw		Limit Values (TLVs) Based 1-191), as amended	d on the 2016 ACGIH TLV	s and BEIs
Components		Туре	Value	Form
Ethylene glycol (CAS 107-21-1)		Ceiling	100 mg/m3	Aerosol
Canada. Ontario OELs. (C Components	ontrol of Exposi	ure to Biological or Chemic Type	cal Agents) Value	Form
Ethylene glycol (CAS 107-21-1)		STEL	10 mg/m3	Aerosol, inhalable.
Canada. Quebec OELs. (N	linistry of Labor	- Regulation respecting of Type	ccupational health and sa Value	fety) Form
Ethylene glycol (CAS 107-21-1)		Ceiling	127 mg/m3	Vapor and mist.
,			50 ppm	Vapor and mist.
Canada. Saskatchewan O Components	ELs (Occupation	nal Health and Safety Regu Type	lations, 1996, Table 21) Value	Form
Ethylene glycol (CAS 107-21-1)		Ceiling	100 mg/m3	Aerosol
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ogical limit values	No hiological	exposure limits noted for the	ingredient(s)	
propriate engineering	Good genera should be ma or other engir	exposure limits noted for the I ventilation (typically 10 air of atched to conditions. If applicate the applicate in the applicate in the application is a second to the application in the application in the application is a second in the application in the application in the application is a second in the application in the application is a second in the application in the application is a second in the application in the application in the application is a second in the application in the ap	changes per hour) should b able, use process enclosur airborne levels below recon	es, local exhaust ventilati nmended exposure limits.
propriate engineering trols vidual protection measure	Good genera should be ma or other engli exposure limi	I ventilation (typically 10 air of atched to conditions. If applicancering controls to maintain a its have not been established anal protective equipment	changes per hour) should b able, use process enclosur airborne levels below recor d, maintain airborne levels t	es, local exhaust ventilati nmended exposure limits.
logical limit values propriate engineering trols vidual protection measure Eye/face protection	Good genera should be ma or other engli exposure limi	I ventilation (typically 10 air of atched to conditions. If applic neering controls to maintain a its have not been established	changes per hour) should b able, use process enclosur airborne levels below recor d, maintain airborne levels t	es, local exhaust ventilati nmended exposure limits.
propriate engineering trols vidual protection measure Eye/face protection Skin protection	Good genera should be ma or other engin exposure limi es, such as perso Wear safety o	I ventilation (typically 10 air of atched to conditions. If applicate the properties of the properties of the properties of the properties of the protective equipment glasses with side shields (or	changes per hour) should b able, use process enclosur airborne levels below record, maintain airborne levels t goggles).	es, local exhaust ventilati nmended exposure limits.
vidual protection measure Eye/face protection Skin protection Hand protection	Good genera should be ma or other engli exposure limi es, such as perso Wear safety of Impervious g	I ventilation (typically 10 air of atched to conditions. If applicate the properties of the properties of the protective equipment glasses with side shields (or loves. Confirm with reputable	changes per hour) should be able, use process enclosur airborne levels below record, maintain airborne levels to goggles).	es, local exhaust ventilati nmended exposure limits. to an acceptable level.
vidual protection measure Eye/face protection Skin protection Hand protection Other	Good genera should be ma or other enginexposure limites, such as perso Wear safety of Impervious g Wear approp	I ventilation (typically 10 air of atched to conditions. If applicate the properties of the properties	changes per hour) should be able, use process enclosur airborne levels below record, maintain airborne levels for goggles). e supplier first. ing. As required by employ	es, local exhaust ventilati nmended exposure limits o an acceptable level. er code.
vidual protection measure Eye/face protection Skin protection Hand protection	Good genera should be ma or other engine exposure limites, such as personal was a such as personal such as p	I ventilation (typically 10 air of atched to conditions. If applicate the properties of the properties of the protective equipment glasses with side shields (or loves. Confirm with reputable	changes per hour) should be able, use process enclosure airborne levels below record, maintain airborne levels for goggles). e supplier first. ing. As required by employ exceeded, use an approved under the direction of a till in OSHA's respirator stand	es, local exhaust ventilatinended exposure limits. o an acceptable level. er code. d NIOSH respirator. rained health and safety dard (29 CFR 1910.134),

Page: 3 of 7 #35520 Issue date 12-October-2022 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

Clear Liquid **Appearance** Physical state Liquid. **Form** Liquid. Colour Yellow Odour Mild

Not available. **Odour threshold**

8 - 9 pН

Melting point/freezing point Not available. > 180 °C (> 356 °F) Initial boiling point and boiling

range

Flash point > 111.0 °C (> 231.8 °F)

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.

Not available. Vapour pressure Vapour density Not available.

1.124 Relative density

Solubility(ies)

Soluble Solubility (water) Not available. Partition coefficient

(n-octanol/water)

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

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

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.

Skin contact No adverse effects due to skin contact are expected. Eye contact Direct contact with eyes may cause temporary irritation. Ingestion May cause stomach distress, nausea or vomiting

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Symptoms related to the physical, chemical and toxicological characteristics

Dizziness. Nausea, vomiting. Abdominal pain.

Information on toxicological effects

Acute toxicity See below.

Components Species Test Results

Ethylene glycol (CAS 107-21-1)

AcuteDermal

LD50 Mouse > 3500 mg/kg, ECHA

Inhalation

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

Oral

LD50 Rat 7712 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.

Iris lesion value Not available.

Conjunctival reddening Not available.

value

Conjunctival oedema value Not available.

Recover days Not available.

Respiratory or skin sensitisation

Canada - Alberta OELs: Irritant

Ethylene glycol (CAS 107-21-1) Irritant

Respiratory sensitisation Not a respiratory sensitizer.

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 classified.

Reproductive toxicity

May damage fertility or the unborn child.

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. Causes damage to organs through prolonged or repeated

exposure.

Further information Not available.

12. Ecological information

Ecotoxicity See below

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

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

Bioaccumulative potential

Mobility in soil No data available.

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Mobility in general

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

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

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)

Listed.

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

Canada

Country(s) or region Inventory name
Canada Domestic Substances List (DSL)

On inventory (yes/no)*

No Yes

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

Non-Domestic Substances List (NDSL)

16. Other information



Other information

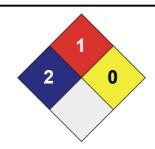
HEALTH * 2

FLAMMABILITY 1

PHYSICAL HAZARD 0

PERSONAL X

PROTECTION X



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

document.

Disclaimer

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

Prepared by

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