SAFETY DATA SHEET





1. Identification

Product identifier		Antifreeze/Coolant Prediluted
Other means of identification	NM0060-053019	
Recommended use		ick engine antifreeze/coolant
Recommended restrictions	Not for food, drug, or hous	ehold use.
Manufacturer/Importer/Supplier	r/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-safe	ty-information
E-mail	info@nemco.ca	
Emergency phone number	NEMCO:	855-755-6737 (M-F 8am-4:30pm)
Supplier	See above.	
	2. Haza	rd identification
Physical hazards	Not classified.	
Health hazards	Reproductive toxicity	Category 1B
	Specific target organ toxic repeated exposure	ity following Category 1
Environmental hazards	Not classified.	
Label elements		
Signal word	Danger	
Hazard statement	May damage fertility or the repeated exposure.	e unborn child. Causes damage to organs through prolonged or
Precautionary statement		
Prevention	and understood. Do not b	before use. Do not handle until all safety precautions have been read eathe mist or vapour. Wash thoroughly after handling. Do not eat, drink product. Wear protective gloves, protective clothing, eye protection and
Response	IF exposed or concerned:	Get medical attention.
04	Store locked up.	
Storage	Dispose of container in accordance with local, regional, national and international regulations.	
Storage Disposal	Dispose of container in ac	cordance with local, regional, national and international regulations.
•	Dispose of container in ac None known.	cordance with local, regional, national and international regulations.
Disposal	-	cordance with local, regional, national and international regulations.

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Ethylene glycol		107-21-1	30-60
Potassium P-tert-butylbenzoate		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.

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

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

US. ACGIH Threshold Limit Values

Components	Туре	Value	Form
		50 ppm	Vapor fraction
	TWA	25 ppm	Vapor fraction
Canada. Alberta OELs (Oc Components	cupational Health & Safety Code, Schedule 1, Tabl Type	e 2) Value	
Ethylene glycol (CAS 107-21-1)	Ceiling	100 mg/m3	
	OELs. (Occupational Exposure Limits for Chemica	l Substances, Oc	cupational Health and
Safety Regulation 296/97,	-	Value	Form
Components		Value	
Ethylene glycol (CAS 107-21-1)	Ceiling	100 mg/m3	Aerosol
	STEL	50 ppm 20 mg/m3	Vapour. Particulate.
		U U	
	TWA	10 mg/m3	Particulate.
Canada. Manitoba OELs (F Components	Reg. 217/2006, The Workplace Safety And Health A	ct) Value	Form
Ethylene glycol (CAS	Type STEL	10 mg/m3	Aerosol, inhalable.
107-21-1)	STEL	10 mg/m3	
		50 ppm	Vapor fraction
	TWA	25 ppm	Vapor fraction
	DELs: Threshold Limit Values (TLVs) Based on the	2016 ACGIH TLV	s and BEIs
•	ck Regulation 91-191), as amended	Volue	Form
Components	Type Coiling	Value	Form
Ethylene glycol (CAS 107-21-1)	Ceiling	100 mg/m3	Aerosol
Canada. Ontario OELs. (Co Components	ontrol of Exposure to Biological or Chemical Agent Type	ts) Value	Form
Ethylene glycol (CAS 107-21-1)	STEL	10 mg/m3	Aerosol, inhalable.
107-21-1)	STEL	·	
107-21-1)		·	
107-21-1) Canada. Quebec OELs. (M Components Ethylene glycol (CAS	linistry of Labor - Regulation respecting occupation	nal health and sat	fety)
107-21-1) Canada. Quebec OELs. (M Components	linistry of Labor - Regulation respecting occupation Type	nal health and sat Value	fety) Form
107-21-1) Canada. Quebec OELs. (M Components Ethylene glycol (CAS 107-21-1)	linistry of Labor - Regulation respecting occupation Type	nal health and saf Value 127 mg/m3 50 ppm	Form Vapor and mist.
107-21-1) Canada. Quebec OELs. (M Components Ethylene glycol (CAS 107-21-1) Canada. Saskatchewan Ol	linistry of Labor - Regulation respecting occupation Type Ceiling ELs (Occupational Health and Safety Regulations, 4	nal health and saf Value 127 mg/m3 50 ppm 1996, Table 21)	Form Vapor and mist. Vapor and mist.
107-21-1) Canada. Quebec OELs. (M Components Ethylene glycol (CAS 107-21-1) Canada. Saskatchewan Ol Components Ethylene glycol (CAS	linistry of Labor - Regulation respecting occupation Type Ceiling ELs (Occupational Health and Safety Regulations, Type	nal health and saf Value 127 mg/m3 50 ppm 1996, Table 21) Value 100 mg/m3	Form Vapor and mist. Vapor and mist. Form
107-21-1) Canada. Quebec OELs. (M Components Ethylene glycol (CAS 107-21-1) Canada. Saskatchewan Ol Components Ethylene glycol (CAS 107-21-1)	linistry of Labor - Regulation respecting occupation Type Ceiling ELs (Occupational Health and Safety Regulations, 7 Type Ceiling	nal health and sat Value 127 mg/m3 50 ppm 1996, Table 21) Value 100 mg/m3 ent(s). per hour) should be process enclosure evels below recom	Form Vapor and mist. Vapor and mist. Vapor and mist. Form Aerosol e used. Ventilation rates es, local exhaust ventilation mended exposure limits.
107-21-1) Canada. Quebec OELs. (M Components Ethylene glycol (CAS 107-21-1) Canada. Saskatchewan OI Components Ethylene glycol (CAS 107-21-1) ogical limit values ropriate engineering trols	linistry of Labor - Regulation respecting occupation Type Ceiling ELs (Occupational Health and Safety Regulations, Type Ceiling No biological exposure limits noted for the ingredie Good general ventilation (typically 10 air changes p should be matched to conditions. If applicable, use or other engineering controls to maintain airborne l	nal health and saf Value 127 mg/m3 50 ppm 1996, Table 21) Value 100 mg/m3 ent(s). per hour) should be process enclosure evels below recorr in airborne levels to	Form Vapor and mist. Vapor and mist. Vapor and mist. Form Aerosol e used. Ventilation rates es, local exhaust ventilation mended exposure limits.
107-21-1) Canada. Quebec OELs. (M Components Ethylene glycol (CAS 107-21-1) Canada. Saskatchewan OI Components Ethylene glycol (CAS 107-21-1) ogical limit values ropriate engineering trols	linistry of Labor - Regulation respecting occupation Type Ceiling ELs (Occupational Health and Safety Regulations, Type Ceiling No biological exposure limits noted for the ingredie Good general ventilation (typically 10 air changes p should be matched to conditions. If applicable, use or other engineering controls to maintain airborne l exposure limits have not been established, maintai s, such as personal protective equipment	nal health and saf Value 127 mg/m3 50 ppm 1996, Table 21) Value 100 mg/m3 ent(s). per hour) should be process enclosure evels below recorr in airborne levels to	Form Vapor and mist. Vapor and mist. Vapor and mist. Form Aerosol e used. Ventilation rates es, local exhaust ventilation mended exposure limits.
107-21-1) Canada. Quebec OELs. (M Components Ethylene glycol (CAS 107-21-1) Canada. Saskatchewan OI Components Ethylene glycol (CAS 107-21-1) ogical limit values ropriate engineering trols	linistry of Labor - Regulation respecting occupation Type Ceiling ELs (Occupational Health and Safety Regulations, Type Ceiling No biological exposure limits noted for the ingredie Good general ventilation (typically 10 air changes p should be matched to conditions. If applicable, use or other engineering controls to maintain airborne l exposure limits have not been established, maintai s, such as personal protective equipment	nal health and saf Value 127 mg/m3 50 ppm 1996, Table 21) Value 100 mg/m3 ent(s). per hour) should be evels below recom in airborne levels to	Form Vapor and mist. Vapor and mist. Vapor and mist. Form Aerosol e used. Ventilation rates es, local exhaust ventilation mended exposure limits.
107-21-1) Canada. Quebec OELs. (M Components Ethylene glycol (CAS 107-21-1) Canada. Saskatchewan OI Components Ethylene glycol (CAS 107-21-1) ogical limit values ropriate engineering trols vidual protection measures Eye/face protection Skin protection	linistry of Labor - Regulation respecting occupation Type Ceiling ELs (Occupational Health and Safety Regulations, Type Ceiling No biological exposure limits noted for the ingredie Good general ventilation (typically 10 air changes p should be matched to conditions. If applicable, use or other engineering controls to maintain airborne l exposure limits have not been established, maintai s, such as personal protective equipment Wear safety glasses with side shields (or goggles).	nal health and sat Value 127 mg/m3 50 ppm 1996, Table 21) Value 100 mg/m3 ent(s). per hour) should be process enclosure evels below recom in airborne levels to r first.	Form Vapor and mist. Vapor and mist. Vapor and mist. Form Aerosol e used. Ventilation rates es, local exhaust ventilation mended exposure limits. o an acceptable level.
107-21-1) Canada. Quebec OELs. (M Components Ethylene glycol (CAS 107-21-1) Canada. Saskatchewan Of Components Ethylene glycol (CAS 107-21-1) ogical limit values ropriate engineering trols vidual protection measures Eye/face protection Skin protection Hand protection	linistry of Labor - Regulation respecting occupation Type Ceiling ELs (Occupational Health and Safety Regulations, Type Ceiling No biological exposure limits noted for the ingredie Good general ventilation (typically 10 air changes p should be matched to conditions. If applicable, use or other engineering controls to maintain airborne l exposure limits have not been established, maintai s, such as personal protective equipment Wear safety glasses with side shields (or goggles). Impervious gloves. Confirm with reputable supplie	nal health and saf Value 127 mg/m3 50 ppm 1996, Table 21) Value 100 mg/m3 ent(s). per hour) should be process enclosure evels below recom in airborne levels to r first. equired by employed he direction of a tr \s respirator stand	Form Vapor and mist. Vapor and mist. Vapor and mist. Form Aerosol e used. Ventilation rates es, local exhaust ventilation mended exposure limits. o an acceptable level. er code. NIOSH respirator. ained health and safety lard (29 CFR 1910.134),

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

Appearance	Clear Liquid
Physical state	Liquid.
Form	Liquid.
Colour	Dark yellow.
Odour	Mild
Odour threshold	Not available.
рН	8 - 9
Melting point/freezing point	-37 °C (-34.6 °F)
Initial boiling point and boiling range	107 °C (224.6 °F)
Flash point	> 100.0 °C (> 212.0 °F)
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit – upper (%)	Not available.
Vapour pressure	Not available.
/apour density	Not available.
Relative density	1.07
Solubility(ies)	
Solubility (water)	Soluble
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
/iscosity	Not available.
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	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

formation on likely routes of exposure	
Prolonged inhalation may be harmful.	
No adverse effects due to skin contact are expected.	
Direct contact with eyes may cause temporary irritation.	
May cause stomach distress, nausea or vomiting.	

Symptoms related to the physical, chemical and toxicological characteristics	Dizziness. Nausea, vomiting. Abdominal pain.	
Information on toxicological effe	octs	
Acute toxicity	See below.	
Components	Species	Test Results
Ethylene glycol (CAS 107-21-1)		
Acute		
Dermal		
LD50	Mouse	> 3500 mg/kg, ECHA
Inhalation	Det	
LC50	Rat	> 2.5 mg/L, 6 Hours, ECHA
<i>Oral</i> LD50	Rat	7712 malka ECHA
		7712 mg/kg, ECHA
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritatio	n.
Exposure minutes	Not available.	
Erythema value	Not available.	
Oedema value	Not available.	
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritati	on.
Corneal opacity value	Not available.	
Iris lesion value	Not available.	
Conjunctival reddening value	Not available.	
Conjunctival oedema value	Not available.	
Recover days	Not available.	
Respiratory or skin sensitisation	l de la constante de	
Canada - Alberta OELs: Irrita	ant	
Ethylene glycol (CAS 107	-21-1) Irritant	
Respiratory sensitisation	Not a respiratory sensitizer.	
Skin sensitisation	This product is not expected to cause skin sensitisati	on.
Germ cell mutagenicity	No data available to indicate product or any componemutagenic or genotoxic.	ents present at greater than 0.1% are
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 repo	eated exposure.
Aspiration hazard	Not an aspiration hazard.	
Chronic effects	Prolonged inhalation may be harmful. Causes damage exposure.	ge to organs through prolonged or repeated
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 Bioaccumulative potential	No data is av	ailable on the degradability of any ingredie	nts in the mixture.
Mobility in soil	No data avai	able.	

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 Go Not regulated as dangerous g	
Not regulated as dangerous g	oods.
Not regulated as dangerous g	This product has been classified in accordance with the hazard criteria of the HPR and the SDS
Not regulated as dangerous g Canadian federal regulations Canada Priority Substances Ethylene glycol (CAS 107 Export Control List (CEPA 1	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. S List (Second List): Listed substance 7-21-1) Listed.
Not regulated as dangerous g Canadian federal regulations Canada Priority Substances Ethylene glycol (CAS 107	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. S List (Second List): Listed substance 7-21-1) Listed.
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Not regulated as dangerous g Canadian federal regulations Canada Priority Substances Ethylene glycol (CAS 107 Export Control List (CEPA 1 Not listed. Greenhouse Gases Not listed. Precursor Control Regulation Not regulated. WHMIS status International regulations Inventory status Country(s) or region	Inventory name Inventory name

LEGEND	HEALTH * 2
Severe4Serious3Moderate2Slight1Minimal0	FLAMMABILITY 1 PHYSICAL HAZARD 0 PERSONAL X PROTECTION X
ssue date	12-October-2022
Revision date	12-October-2022
Version No.	01
Other information	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.

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Prepared by