

**Safety Data Sheet****SECTION 1: IDENTIFICATION****1.1. Product Identifier****Product Form:** Mixture**Product Name:** PURAMAX Antifreeze 50/50**Product Grades/Codes:**

PURAMAX Green AF 50/50 – 1911627110 (Bulk), 1911627121 (Tote), 1911627132 (Drum), 1911627160 (6X1G Case)

PURAMAX Gold Universal AF 50/50 – 1911627010 (Bulk), 1911627021 (Tote), 1911627032 (Drum), 1911627060 (6X1G Case)

PURAMAX Red ELC AF 50/50 – 1911627210 (Bulk), 1911627221 (Tote), 1911627232 (Drum), 1911627260 (6X1G Case)

**Synonyms:** Engine Antifreeze Coolant**1.2. Intended Use of the Product**

Engine Antifreeze Coolant

**1.3. Company Identification**North American Lubricants Company  
7337 E. Doubletree Ranch Road, Suite 180  
Scottsdale, AZ 85258  
(800)430-6252  
[www.nalube.com](http://www.nalube.com)**1.4. Emergency Telephone Number****Emergency Number** : CHEMTREC: (800)424-9300 or (703)527-3887**SECTION 2: HAZARDS IDENTIFICATION****2.1. Classification of the Substance or Mixture****Classification (GHS-US)**

Acute Oral Tox, 4

Full text of H-phrases: see section 16

**2.2. Label Elements****GHS-US Labeling****Hazard Pictograms (GHS-US)** :**Signal Word (GHS-US)** : Warning**Hazard Statements (GHS-US)** : H302 Harmful if Swallowed**Precautionary Statements (GHS-US)** : **Prevention**

P264 – Wash face, hands, and any exposed skin thoroughly after handling.

P270 – Do not eat, drink, or smoke when using this product.

**Response**

P301 +P312 – IF SWALLOWED: Call a poison center if you feel unwell.

P330 – Rinse Mouth

**Disposal**

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

**Safety Data Sheet****2.3. Other Hazards**

None Known

**2.4. Unknown Acute Toxicity (GHS-US)**

none of the mixture consists of ingredient(s) of unknown acute toxicity.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.1. Substances**

Not applicable

**3.2. Mixture**

Name	Product Identifier	% (w/w)	Classification (GHS-US)
Deionized Water	(CAS No) 7732-18-5	35 - 45	Not Classified
Ethylene Glycol	(CAS No) 107-21-1	50 - 58	H302, Acute Oral Cat 4
Proprietary Additive Mixture	(CAS No) None	0 - 8	Not Classified

\*The specific chemical identity and/or exact percentage of composition have been withheld as a trade secret within the meaning of the OSHA Hazard Communication Standard [29 CFR 1910.1200].

\*More than one of the ranges of concentration prescribed by Controlled Products Regulations has been used where necessary, due to varying composition.

Full text of H-phrases: see section 16

**SECTION 4: FIRST AID MEASURES****4.1. Description of First Aid Measures****General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).**Inhalation:** Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.**Skin Contact:** Remove contaminated clothing. Drench affected area with water or soap and water for at least 15 minutes. Wash contaminated clothing before reuse. Obtain medical attention if irritation develops or persists.**Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.**Ingestion:** Do NOT induce vomiting. Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.**4.2. Most Important Symptoms and Effects Both Acute and Delayed****General:** No known significant effects or critical hazards.**Inhalation:** Overexposure may be irritating to the respiratory system.**Skin Contact:** Repeated or prolonged skin contact may cause irritation.**Eye Contact:** Direct contact with the eyes is likely irritating.**Ingestion:** Ingestion is likely to be harmful or have adverse effects.**Chronic Symptoms:** No known significant effects or critical hazards.**4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed**

If you feel unwell, seek medical advice (show the label where possible).

**SECTION 5: FIRE-FIGHTING MEASURES**

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### 5.1. Extinguishing Media

**Suitable Extinguishing Media:** Use extinguishing media appropriate for surrounding fire.

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.

### 5.2. Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Not flammable but will support combustion.

**Explosion Hazard:** Product is not explosive.

**Reactivity:** Hazardous reactions will not occur under normal conditions.

### 5.3. Advice for Firefighters

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire. Under fire conditions, hazardous fumes will be present.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Under fire conditions, may produce fumes, smoke, oxides of carbon and hydrocarbons.

**Other Information:** Refer to Section 9 for flammability properties.

#### Reference to Other Sections

Refer to section 9 for flammability properties.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Avoid all contact with skin, eyes, or clothing. Avoid breathing (vapor, mist, spray).

#### 6.1.1. For Non-Emergency Personnel

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

#### 6.1.2. For Emergency Personnel

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Stop leak if safe to do so. Eliminate ignition sources. Ventilate area.

### 6.2. Environmental Precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and Material for Containment and Cleaning Up

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Spills should be contained with mechanical barriers. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

### 6.4. Reference to Other Sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for Safe Handling

**Additional Hazards When Processed:** Any proposed use of this product in elevated-temperature processes should be thoroughly evaluated to assure that safe operating conditions are established and maintained. Practice good housekeeping - spillage can be slippery on smooth surface either wet or dry.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Comply with applicable regulations.

**Storage Conditions:** Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

**Incompatible Materials:** Strong acids, strong bases, strong oxidizers.

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## 7.3. Specific End Use(s)

Engine Antifreeze Coolant

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

Ethylene Glycol	(CAS No) 107-21-1	ACGIH TVL Ceiling 100mg/m <sup>3</sup>
		OSHA PEL Ceiling 50 ppm
		OSHA PEL Ceiling 125 mg/m <sup>3</sup>

### 8.2. Exposure Controls

**Appropriate Engineering Controls:** Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

**Personal Protective Equipment:** Protective goggles. Gloves.



**Materials for Protective Clothing:** Chemically resistant materials and fabrics.

**Hand Protection:** Wear chemically resistant protective gloves.

**Eye Protection:** Chemical goggles or safety glasses.

**Skin and Body Protection:** Wear suitable protective clothing.

**Respiratory Protection:** Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

**Environmental Exposure Controls:** Do not allow the product to be released into the environment.

**Consumer Exposure Controls:** Do not eat, drink or smoke during use.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on Basic Physical and Chemical Properties

Physical State	: Liquid
Appearance	: Clear
Odor	: Characteristic
Odor Threshold	: Not available
pH	: Not available
Evaporation Rate	: Not available
Melting Point	: Not available
Boiling Point	: 100°C/212°F
Flash Point	: 130°C/266°F
Auto-ignition Temperature	: Not available
Decomposition Temperature	: Not available
Flammability (solid, gas)	: Not available
Lower Flammable Limit	: Not available

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Upper Flammable Limit	: Not available
Vapor Pressure	: Not available
Relative Vapor Density at 20 °C	: Not available
Relative Density	: Not available
Specific Gravity	: 1.1 at 15°C/59°F
Solubility	: Completely Soluble
Partition Coefficient: N-Octanol/Water	: Not available
Viscosity	: Not available
Viscosity, Kinematic	: Not available
Explosive Properties	: Product is not explosive
Explosion Data – Sensitivity to Mechanical Impact	: Not expected to present an explosion hazard due to mechanical impact
Explosion Data – Sensitivity to Static Discharge	: Not expected to present an explosion hazard due to static discharge

**SECTION 10: STABILITY AND REACTIVITY**

- 10.1. Reactivity:** Hazardous reactions will not occur under normal conditions.
- 10.2. Chemical Stability:** Stable under recommended handling and storage conditions (see section 7).
- 10.3. Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.
- 10.4. Conditions to Avoid:** Direct sunlight, extremely high or low temperatures, heat, hot surfaces, sparks, open flames, incompatible materials, and other ignition sources.
- 10.5. Incompatible Materials:** Strong acids, strong bases, strong oxidizers.
- 10.6. Hazardous Decomposition Products:** No decomposition expected under normal use and storage conditions.

**SECTION 11: TOXICOLOGICAL INFORMATION****11.1. Information on Toxicological Effects - Product****Acute Toxicity:** Not classified**LD50 and LC50 Data:** Not Classified**Skin Corrosion/Irritation:** Not classified**Eye Damage/Irritation:** Not classified**Respiratory or Skin Sensitization:** Not classified**Germ Cell Mutagenicity:** Not classified**Teratogenicity:** Not classified**Carcinogenicity:** Not classified**Specific Target Organ Toxicity (Repeated Exposure):** Not classified**Reproductive Toxicity:** Not classified**Specific Target Organ Toxicity (Single Exposure):** Not classified**Aspiration Hazard:** Not classified**Symptoms/Injuries After Inhalation:** Overexposure may be irritating to the respiratory system.**Symptoms/Injuries After Skin Contact:** Repeated or prolonged skin contact may cause irritation.**Symptoms/Injuries After Eye Contact:** Direct contact with the eyes is likely irritating.**Symptoms/Injuries After Ingestion:** Ingestion is likely to be harmful or have adverse gastrointestinal effects.**Chronic Symptoms:** Not Classified**11.2. Information on Toxicological Effects - Ingredient(s)****LD50 and LC50 Data:**

Ethylene Glycol

LD50 Oral Rat 4000 mg/kg

LD50 Dermal Rabbit 9530 ul/kg

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**SECTION 12: ECOLOGICAL INFORMATION****12.1. Toxicity****Ecology - General:**

Ethylene Glycol

Algae

EC50 96 hr. 6500- 13000mg/l (Pseudokirchneriella subcapitata)

Fish

LC50 96 hr. 14 – 18 mL/L (Oncorhynchus mykiss)

LC50 96 h: 40000 - 60000 mg/L static (Pimephales promelas)

LC50 96 h: = 16000 mg/L static (Poecilia reticulata)

LC50 96 h: = 27540 mg/L static (Lepomis macrochirus)

LC50 96 h: = 40761 mg/L static (Oncorhynchus mykiss)

LC50 96 h: = 41000 mg/L (Oncorhynchus mykiss)

Microorganisms

EC50 = 10000 mg/L 16 h

EC50 = 620 mg/L 30 min

EC50 = 620.0 mg/L 30 min

Daphnia Magna (Water Flea)

EC50 48 h: = 46300 mg/L (Daphnia magna)

**12.2. Persistence and Degradability**

Not available

**12.3. Bioaccumulative Potential**

Not available

**12.4. Mobility in Soil**

Not available

**12.5. Other Adverse Effects****Other Information:** Avoid release to the environment.**SECTION 13: DISPOSAL CONSIDERATIONS****13.1. Waste treatment methods****Sewage Disposal Recommendations:** Do not empty into drains; dispose of this material and its container in a safe way. Do not empty into drains. Do not dispose of waste into sewer.**Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.**SECTION 14: TRANSPORT INFORMATION****14.1. In Accordance with DOT****UN Number -** UN3082**Proper Shipping Name -** Environmentally hazardous substances, liquid, n.o.s.**Hazard Class** 9**Packing Group** III**Reportable Quantity (RQ)** Ethylene glycol: RQ kg=9080**DOT Packaging Exceptions** 155**DOT Packaging Non Bulk** 203**Other Information** Non Bulk is not regulated by the US DOT (in quantities under 5,000 lbs in any one inner package. )

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- 14.2. In Accordance with IMDG** Not regulated for transport  
**14.3. In Accordance with IATA** Not regulated for transport  
**14.4. In Accordance with TDG** Not regulated for transport

**SECTION 15: REGULATORY INFORMATION****15.1. US Federal Regulations**

<b>SARA Section 311/312 Hazard Classes</b>	Acute Health Hazard
<b>SARA Section 313 – Threshold Value 1%</b>	Ethylene glycol, 107-21-1, wt% 50 - 58
<b>CERCLA – RQ, 5,000 lbs</b>	Ethylene glycol

**15.2. US State Regulations**

California - Prop 65 – This product does not contain any Proposition 65 Chemicals.  
Illinois – Right to Know – Ethylene glycol  
Massachusetts – Right to Know - Ethylene glycol  
New Jersey – Right to Know – Ethylene glycol  
Pennsylvania – Right to Know – Ethylene glycol  
Rhode Island – Right to Know – Ethylene glycol

**15.3. Canadian Regulations**

WHMIS Classification	Not Classified
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This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

**SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION**

**Revision Date** : 06/18/2015  
**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

**GHS Full Text Phrases:**

H302	Harmful if Swallowed
P264	Wash face, hands, and any exposed skin thoroughly after handling.
P270	Do not eat, drink, or smoke when using this product.
P301 + P312	IF SWALLOWED: Call a poison center if you feel unwell.
P330	Rinse Mouth
P501	Dispose of contents/container in accordance with local, regional, national, and international regulations.

**Party Responsible for the Preparation of This Document**

North American Lubricants Company  
7337 E. Doubletree Ranch Road, Suite 180  
Scottsdale, AZ 85258  
(800)430-6252  
[www.nalube.com](http://www.nalube.com)

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(All Grades)**

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*environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

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