

# Material Safety Data Sheet



Uni-Gard Anti-Freeze

Revised 01/2008

## I. General Information

Chemical Name &amp; Synonyms: Antifreeze, Ethylene Glycol Based Antifreeze

Chemical Family: Glycol

Trade Name &amp; Synonyms: Antifreeze, New Aluminum Formula

Proper DOT Shipping Name: Environmentally Hazardous Substance,  
Liquid, N.O.S. (Ethylene Glycol)

DOT Hazard Classification: Class 9

HMIS Rating: Health (1) Flammability (1) Reactivity (0) Personal Protection: B

**Blended By:**

North/Win  
272 Nashua Street  
Leominster MA 01453  
(978)-537-5518  
(800) 424-9300

**CHEMTREC:**

## II. Ingredients

Principal Components Percent	CAS Number	Approximate Weight
Ethylene Glycol	107-21-1	97.5
Potassium Hydroxide	1310-58-3	1.6
Sodium Nitrate	7631-99-4	<1%
Phosphoric Acid 85%	7664-38-2	<1%

## III. Physical Data

Boiling Point (°F):	330-340
Vapor Pressure (mm Hg.):	n/a
Vapor Density (Air=1):	1
Solubility in Water:	complete
Appearance & Odor:	Blue or green, slightly viscous liquid, mild odor
Specific Gravity (H <sub>2</sub> O =1):	1.1373
Percent Volatile By Volume (%):	n/a
Evaporation Rate(n-Butyl Acetate =1):	0.01
pH:	9-11

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## IV. Fire & Explosion Data

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Flash Point (Test Method): 246° F (Setaflash)  
Flammable Limits:  
Auto Ignition Temperature: n/a  
LEL: not applicable  
UEL: not applicable  
Extinguishing Media: Use water fog, "alcohol foam", dry chemical or CO<sub>2</sub>

Special Fire Fighting Procedures: Material will not burn unless preheated. Do not enter confined fire space without full bunker gear (helmet w/ faceshield, bunker coats, gloves, and rubber boots - including a positive pressure NIOSH approved self contained breathing apparatus).

Unusual Fire & Explosion Hazards: None

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## V. Health Hazard Data

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OSHA Permissible Exposure Limits: n/a  
ACGIH Threshold Limit Value: 50ppm - ceiling, 10mg/M3 20mg/M3  
Carcinogen - NTP Program: n/a  
Carcinogen - IARC Program: n/a  
Symptoms of Exposure: Mild irritation.  
Medical Conditions Aggravated By Exposure:  
Pre-existing skin, eye and respiratory disorders may be aggravated by exposure to this product. Impaired kidney and liver functions from pre-existing disorders may be aggravated by exposure to this product.

Primary Route(s) of Entry: Eye contact, skin absorption, inhalation, and ingestion.

Emergency First Aid:  
EYES: Flush w/ water for 15 min while holding eyelids open.  
SKIN: Flush skin w/ water.  
INHALATION: Remove victim to fresh air and provide O<sub>2</sub> if breathing is difficult.  
INGESTION: Do not give liquids if victim is unconscious or very drowsy.  
Otherwise, induce vomiting. Keep victim's head below hips while vomiting.

ALWAYS SEEK MEDICAL ATTENTION.

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### VI. Reactivity Data

**Stability:** Stable  
**Conditions To Avoid:** Strong oxidizing agents.

**Incompatibility:**  
**Materials To Avoid:** Strong oxidizing agents.

**Hazardous Polymerization:** Will not occur.

**Conditions To Avoid:**  
**Hazardous Decomposition Products:** Carbon monoxide and unidentified organic compounds may be formed during combustion.

### VII. Environmental Protection Procedures

**Spill Response:** Contain leak. Absorb small spills w/ suitable material such as straw or sand.  
Report spill as required to appropriate authorities.  
Chemtrec Emergency: 800-424-9346.

**Waste Disposal Method:** Place in appropriate disposal facility in compliance with local regulations.

RQ = 5000 lbs.

### VIII. Special Protection Information

**Eye Protection:** Wear chemical goggles if likelihood of eye contact.

**Skin Protection:** Avoid prolonged or repeated contact. Wear chemical resistant gloves.

**Respiratory Protection (Specific Type):** Atmosphere-supplying or air-purifying.

**Ventilation Recommended:** As needed.

**Other Protection:** Eye wash fountains and safety showers should be available for emergency use.



### IX. Special Precautions

**Hygienic Practices In Handling & Storage:**

Store in a cool, dry place with adequate ventilation. Keep away from flame and high temperatures. Wash with soap and water before eating, drinking, smoking, or using toilet facilities. Launder contaminated clothing before reuse.

**Precautions For Repair & Maintenance Of Contaminated Equipment:** None.

**Other Precautions:** None.

\*\*\*\*\**End Of MSDS*\*\*\*\*\*

**Key:** N/A Not Applicable  
ND Not Determined

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