

# AMSOIL Material Safety Data Sheet

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## Section 1: Product and Company Identification

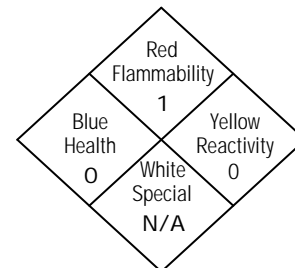
Manufacturer: AMSOIL, Inc. Telephone:  
925 Tower Avenue CHEMTREC (Spill Emergency Only): 1-800-424-9300  
Superior, WI 54880 Information: 715-392-7101

AMSOIL Product Code.....ANF  
Product Label Name.....Biodegradable Propylene Glycol Antifreeze and Engine Coolant  
Product Use.....Antifreeze and Engine Coolant

## Section 2: Composition/Information on Ingredients

**OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)**  
Propylene Glycol, CAS# 57-56-6, appx weight=93-95%  
Sodium Nitrate, CAS# 7631-99-4, appx wt=<1  
Sodium Silicate, CAS# 1344-09-8, appx wt=<1

NFPA & HMIS Rating



## Section 3: Hazards Identification

POTENTIAL HEALTH EFFECTS: May cause minor eye irritation.

## Section 4: First Aid Measures

**EYE:** Flush with water for 15-20 minutes. Seek medical attention if irritation develops.

**SKIN:** Wash with soap and water. Remove contaminated clothing and launder before reuse. Discard shoes and leather articles saturated with the product. Obtain medical advice if irritation occurs.

**INHALATION:** Remove exposed person to fresh air. If breathing is labored give oxygen. If breathing has stopped apply artificial respiration. Get immediate medical attention.

**INGESTION:** If large quantity is swallowed, give one pint of lukewarm water if conscious and alert. Induce vomiting. Get immediate medical attention.

## Section 5: Fire Fighting Measures

**FLAMMABILITY PROPERTIES:** Flash Point .....211°F(99°C)  
Method .....N/A  
LEL/UEL ..... 2.4 / 17.4  
Auto-ignition Temperature .....Not Determined

**EXTINGUISHING MEDIA:** Carbon dioxide, dry chemical, and alcohol foam.

**UNUSUAL FIRE & EXPLOSION HAZARDS:** Heat from fire can generate flammable vapor. When mixed with air and exposed to ignition source, vapors can burn in open or explode if confined. Vapors may be heavier than air and travel long distances along ground before igniting and flashing back. Fine sprays and mists may be combustible at temperatures below normal flash point.

**FIREFIGHTING EQUIPMENT:** Full bunker gear recommended. Including a positive pressure self-contained breathing apparatus.

**Section 6: Accidental Release Measures**

Isolate spill area. Provide adequate ventilation. Wear appropriate personal protection. Recover free product for recycle and/or disposal. Add sand, earth or other suitable absorbent to spill area. Prevent entry into sewers and waterways. Check under Transportation and Labeling (DOT/CERCLA) and Other Regulator Information Section (SARA) for hazardous substances to determine regulatory reporting requirements for spill.

**Section 7: Handling and Storage**

**HANDLING:** Keep containers closed. Avoid contact with eyes, skin or clothing. Wash hands after handling.

**STORAGE:** Keep away from heat or flame.

**Section 8: Exposure Controls/Personal Protection**

**VENTILATION:** Use adequate general or local exhaust ventilation to keep airborne concentrations below exposure limits.

**RESPIRATORY:** Use a NIOSH approved respirator when necessary.

**SKIN:** Use Viton or Nitrile gloves to avoid prolonged or repeated skin contact.

**EYE:** Use splash goggles or face shield where splashing is expected or can occur.

**EXPOSURE LIMITS:** This product does not contain any components, which have recognized exposure limits.

**Section 9: Physical and Chemical Properties**

Physical State .....	Liquid
Boiling Point .....	365°F (201° C)
Freezing/Melting Point .....	-76° F (-60° C)
Vapor Pressure .....	<0.1
Vapor Density (Air=1).....	2.6
Evaporation Rate .....	Not Determined
Solubility in Water .....	Complete
Specific Gravity (Water=1).....	1.04
Density, lb./gal. ....	9.00
Volatility (Volume) .....	Not Determined
VOC .....	Unknown
pH .....	10-11
Coefficient of Water/Oil Distribution.....	Not Determined
Odor .....	Mild, Odorless
Odor Threshold .....	Not Determined
Appearance.....	Purple, Transparent
Viscosity, cSt @ 100°C .....	Not Applicable
Viscosity, cSt @ 40°C .....	Not Applicable
Viscosity Index .....	Not Applicable

Section 10: Stability and Reactivity

STABILITY: Stable under moderately elevated temperatures and pressures.

INCOMPATIBILITY: Avoid contact with strong oxidizers.

HAZARDOUS POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION OF PRODUCT: May produce fumes when heated to decomposition.  
Fumes may contain toxic oxides of carbon and other toxic vapors.

Section 11: Toxicological InformationACUTE EXPOSURE

- Eye Irritation: Mild to moderate eye irritation. Based on data from components or similar materials.
- Skin Irritation: Not expected to be a primary skin irritant. Based on data from components or similar material. Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis. Symptoms may include redness, edema, drying, defatting, and cracking of the skin.
- Respiratory Irritation: Vapor inhalation under ambient conditions is normally not a problem. Hot vapors may irritate pre-existing asthma.

CHRONIC EXPOSURE

- Chronic Toxicity: No data available to indicate product present at greater than 1.0% are chronic health hazards.
- Carcinogenicity: No data available to indicate product present at greater than 0.1% are a carcinogenic hazard.
- Mutagenicity: No data available to indicate product present at greater than 1.0% present a mutagenic or genotoxic hazard.
- Reproductive Toxicity: No data available to indicate product present at greater than 1.0% present a reproductive hazard.
- Teratogenicity: No data available to indicate product present at greater than 1.0% present a teratogenic hazards.

ADDITIONAL INFORMATION

- Exposure Limits: This product does not contain any components, which have recognized exposure limits.

There are extensive toxicological data available on the various components of this product. An adequate representation of all these data is beyond the scope of this document. Please contact the AMSOIL Material Safety Data Sheet Coordinator for more details.

**Section 12: Ecological Information**

No data available on the adverse effects of this product on the environment.

**Section 13: Disposal Considerations**

If this product as supplied becomes a waste, it does not meet the criteria of a hazardous waste as defined under the Resource Conservation and recovery act (RCRA) 40 CFR 261. Material is expected to be hazardous when disposed. Dispose of in accordance with all local, state and federal regulations.

**Section 14: Transport Information**

This product is classified as a non-hazardous material for DOT shipping. For further information relative to spills resulting from transportation incidents, refer to the latest DOT Emergency Response Guidebook for Hazardous Materials.

**Section 15: Regulatory Information**

U.S. Federal Regulations

- OSHA Table Z.....Not Applicable
- TSCA..... Listed
- CERCLA 40 CFR 302.4.....Not Applicable
- SARA Title III
  - Section 302 Extremely Hazardous .....Not Applicable
  - Section 311/312
    - Fire Hazard ..... Yes
    - Reactive Hazard .....No
    - Release of Pressure.....No
    - Acute Health Hazard.....No
    - Chronic Health Hazard .....No
  - Section 313 Toxic Chemical .....Not Applicable

U.S. State Regulations

- California (Prop 65)
  - Does not contain chemicals known to the state of California to cause cancer.

International Regulations

- WHMIS ..... All components listed

**Section 16: Other Information**

The information and recommendations contained herein are, to the best of AMSOIL's knowledge and belief, accurate and reliable as of the date issued. AMSOIL makes no warranty or guarantee, expressed or implied, of their accuracy or reliability, and AMSOIL shall not be liable for any loss or damage based upon the criteria supplied by the developers of these rating systems, together with AMSOIL's interpretation of the available data.