

Houghton Chemical Corporation

Material Safety Data Sheet

“PAH/NOL GOLD ALL PURPOSE ANTIFREEZE”



Section 1 IDENTIFICATION			
Manufacturer Address	Houghton Chemical Corporation 52 Cambridge Street, Allston, MA 02134 1-617-254-1010 or 1-800-777-2466		
Emergency Telephone	Chemtrec: 1-800-424-9300		
Chemical Name & Synonyms	Permanent Antifreeze and Summer Coolant		
Chemical Family	Ethylene Glycol/Engine Coolant		
CAS Registry Number	Not applicable for blended product		
DOT Shipping Classification	Not regulated in quantities containing less than 5,000 lbs. of ethylene glycol		
Product Number	611273, 621273		
Section 2 HAZARDOUS INGREDIENTS			
Material	CAS #	VOL %	TLV (UNITS)
Ethylene Glycol	107-21-1	90 – 95	50 ppm
Diethylene glycol	111-46-6	≤5	Not applicable
Water	7732-18-5	≤4	Not applicable
2 Ethyl Hexanoic Acid, Sodium Salt	19766-89-3	≤1	Not applicable
Sodium Nitrite	7632-00-0	≤1	Not applicable
Sodium Tolyltriazole	6466-57-2	≤1	Not applicable
Section 3 PHYSICAL DATA			
Boiling Point @760 mm Hg	325 ⁰ F		
Freezing Point	4 ⁰ F		
Specific Gravity	1.12		
Vapor Pressure at 20⁰C	0.1		
Vapor Density (air = 1)	2.1		
Solubility in Water	Complete		
%Volatile by Volume	Greater than 95%		
Evaporation Rate	<1 (N-Butyl Acetate = 1)		
Appearance and Odor	Golden Yellow, mild odor		
Section 4 FIRE AND EXPLOSION HAZARD DATA			
Flash Point	250 ⁰ F – TOC 225 ⁰ F – TCC		
Auto Ignition Temperature	Not applicable		
Flammable Limits in Air	LEL = 3.0 UEL = 16 (calculated)		
Extinguishing Media	Water, fog, alcohol foam, dry chemical or CO ₂		
Special Fire Fighting Procedures	A solid stream of water directed into hot burning liquid can cause frothing		
Unusual Fire and Explosion Hazards	None		
Section 5 REACTIVITY DATA			
Stability	This material is stable		
Incompatibility	Keep away from strong oxidizing agents		
Hazardous Decomposition Products	Burning can product carbon dioxide or carbon monoxide		
Hazardous Polymerization	Will not occur		

Section 6 HEALTH HAZARD DATA	
Threshold Limit Value	50 ppm (Ethylene Glycol vapor or mist)
Effects of Overexposure	Irritating to eyes and skin. Inhalation irritates nose and throat. High vapor concentration causes nausea, vomiting and headaches.
Eye Contact	Irritation may result.
Skin Contact	May be mildly irritating to skin. Slightly toxic on prolonged or repeated contact
Inhalation	Exposure to high vapor concentration from heated antifreeze coolant or exposure to mists may produce nausea, vomiting, headache, dizziness and irregular eye movements.
Ingestion	Swallowing causes abdominal discomfort or pain, dizziness, lumbar pain, oliguria, uremia and central nervous system depression. Large volumes cause kidney damage and can be fatal.
Emergency and First Aid Procedures	
Eyes	Flush with plenty of water for at least 15 minutes
Skin	Flush with plenty of water, wash with mild soap if available
Inhalation	Remove to fresh air; give artificial respiration if breathing has stopped
Ingestion	If swallowed, IMMEDIATELY contact a poison control center, physician or emergency treatment center
Section 7 SPILL OR LEAK PROCEDURES	
Steps to be Taken if Material is Spilled or Released	Wear suitable protective equipment. Large spills should be contained and collected. Small spills can be collected or may be absorbed with appropriate liquid absorbing materials. All spill response and disposal should be carried out in accordance with federal, state and local requirements.
Waste Disposal Method	Consult with local sewer, municipal, state and/or federal agencies to determine appropriate current disposal options
Section 8 SPECIAL PROTECTIVE INFORMATION	
Respiratory Protection	Provide adequate ventilation with local exhaust system. If personnel exposure exceeds TLF/PEL, use NIOSH approved atmosphere supplying respirator or NIOSH approved air purifying respirator with organic vapor cartridge and dust/mist pre-filter
Ventilation	Mechanical or other
Protective Gloves	Chemical impervious gloves of natural rubber, nitrile (NBR), neoprene, butyl or polyvinyl chloride coated
Eye Protection	Safety glasses or goggles
Other Protective Equipment	Normally not required
Section 9 SPECIAL PRECAUTIONS	
Precautions to be taken in Handling and Storage	Do not breathe mist or spray. Follow good work/hygiene practices. Provide safety shower and wash in immediate area. Workers should wash with soap and water before eating, smoking or using toilet facilities. Launder contaminated clothing before re-use.