



SAFETY DATA SHEET

Section 1 – Identification

1.1 Product identifier

Product Name : PAH NOL GOLD ANTI-FREEZE

1.2 Product usage

Recommended Usage : Antifreeze Fluid

Restricted Usage : Dilution to 50% is generally recommended: dilute to meet local condition.

1.3 Emergency support

Emergency Support : CHEMTREC
United States +1(800) 424-9300
International +01(703) 527-3887

1.4 Supplier Information

David Weber Oil Co.
601 Industrial Road
Carlstadt, NJ 07072
Manufacturer: Battenfeld Grease & Oil

Section 2- Hazards Identification

2.1 Hazard Classification

OSHA : Target organ effect, harmful by ingestion, teratogen; TARGETED ORGANS: Liver, cardiovascular system, eyes, kidney, central nervous system. GHS: Acute toxicity Oral - Category 4, Eye Irritation - Category 2B

2.2 Hazard Statement

Material is considered a "Hazardous Chemical" as defined by OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of this product.

2.4 Other Hazards

Precautionary Statement : Keep container tightly closed. Keep away from heat, sparks or open flames. No smoking, drinking or eating around product. Wear protective gloves, eye and face equipment. Store in a cool, dry and well-ventilated location. Avoid release to the environment.

Section 3 - Composition/ Information on Ingredients

3.1 Substance details

Dangerous components	CAS#	%Weight
Ethylene Glycol	107-21-1	92%
Water	7732-18-5	4%
Inhibitors & Dye	Proprietary	4%

Section 4 – First aid Measures

4.1 First aid measures

Acute	: Irritation of affected area with symptoms of reddening, itching, swelling, burning, possible permanent damage, nausea, vomiting, weakness, and death.
Delayed	: Irritation of affected area with symptoms of reddening, itching, swelling, burning, possible permanent damage, nausea, vomiting, weakness, abdominal pain, muscle tenderness, respiratory failure, severe metabolic acidosis, hypocalcemia and death.
Skin:	Irritation may result. May be harmful if absorbed through skin.
Eye Contact:	Irritation may cause transitory stinging and tearing.
Ingestion:	Toxic may be harmful or fatal if swallowed.

4.2 First Aid Instructions

Inhalation	: Remove to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. Seek medical attention.
Skin	: Wash skin with soap and water for at least 20 minutes. Remove any contaminated clothing. Seek medical attention immediately if symptoms or irritation develops.
Eye	: Contact Flush with water for at least 20 minutes. Seek medical attention if irritation develops or persists.
Ingestion	: DO NOT induce vomiting, seek medical attention immediately. Do not give anything by mouth to an unconscious person. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. Vomiting may occur spontaneously. If vomiting occurs and the victim is conscious, give water to victim to further dilute the chemical.
Other	: Consult a physician. Show safety data sheet to the doctor in attendance.

Section 5 – Fire Fighting

5.1 Extinguishing Media

Suitable extinguishing agents : Water, water fog, water spray, alcohol foam, dry chemical or carbon dioxide.

Smoke may contain the original material in addition to but not limited to: Carbon Monoxide, Carbon Dioxide.

5.2 Firefighters Advice

Protective equipment : Wear self-contained breathing apparatus and protective suit. Evacuate personnel to safe areas and keep upwind of fire.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

General Measures : Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment. Usage of safety glasses or goggles is recommended. Chemical resistant gloves, chemical resistant apron, boots, and full suit will be necessary depending on the extent of clean up task. If ventilation does not control airborne concentration then respiratory protection equipment that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements should be used.

6.2 Materials & Methods to Contain and Cleanup

Reference to other sections : Collect liquid in an appropriate container or absorb with inert material and place in chemical waste container.

Containment and Cleanup : Do not flush to sewer. Comply with all federal, state, and local regulations.

Section 7 - Handling & Storage

7.1 Safe Handling

Precautions

: Protect container from physical damage. Wear appropriate personal protection equipment. Do not expose containers to open flame, excessive heat, or direct sunlight. Use local exhaust over processing area. Do not eat, drink or smoke around products.

7.2 Safe Storage

Storage and receptacles

: Store in a cool, dry and ventilated area away from sources of heat, moisture and incompatible materials. Observe all warnings and precautions listed for the product. Keep container closed to prevent contamination

Section 8 - Exposure Control

OSHA Permissible Exposure Limits (PELs)	Not Applicable
American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values	ACGIH TLV: 100 mg/m ³
Other Exposure Limits	OSHA - Table Z-1 Limits for air contaminants - 1910.1000: 50 ppm 125 mg/m ³ .
Engineering Control	Use mechanical (general) ventilation to control airborne levels Below exposure guidelines.
Individual Protection Measures	Wear protective safety glasses or goggles, gloves, apron, Vapor Respirator.

Section 9 - Physical & Chemical Properties

9.1 Information On Basic Physical and Chemical Properties

General Information	
Appearance:	Liquid, Clear, Gold
Upper/lower flammability or explosive limits:	Not Explosive; LOWER: 3.2% (v) UPPER: 15.3% (v)
Odor	Slight to no odor
Vapor pressure:	134 Pa / 0.1 mmHg
Odor threshold:	No data available
Vapor density (air = 1):	2.14
pH:	7.5 - 9.0
Relative density:	1.120 - 1.140
Freezing point (as 50%)	-34°F / -37°C
Solubility(ies)	Miscible in water
Initial boiling point and boiling range	385°F / 196°C
Flash point	232°F / 111°C
Evaporation rate (Butyl Acetate = 1)	<1
Flammability (solid, gas)	This material is Not Flammable but can burn if heated
Partition coefficient: n-octanol/water	Log Pow: -1.36
Auto-ignition temperature	> 700°F / > 370°C
Decomposition temperature	Not Applicable
Viscosity	~16 cps at 60°F

Section 10 - Stability & Reactivity

Reactivity	: Product is stable under typical use temperatures.
Chemical Stability	: Product is stable under typical use temperatures.
Hazardous Reactions	: Avoid contact with oxidizing materials strong bases and strong acids.
Conditions to Avoid	: Heat, flames, ignition sources and incompatibles.
Incompatible Materials	: Avoid contact with oxidizing agents, strong bases and strong acids.
Decomposition Products	: Carbon dioxide and carbon monoxide may form when heated to decomposition.

Section 11- Toxicological Information

11.1 Effects from short term exposure

Delayed Effects	: Irritation of affected area
Immediate Effects	: Irritation of affected area
Chronic Effects	: Not Applicable
The numerical measures of toxicity (e.g., acute toxicity estimates such as the LD50 toxicity estimates such as the LD50 (median lethal dose)	: The estimated amount [of a substance] expected to kill 50% of test animals in a single dose.
Description of the symptoms	: This description includes the symptoms associated with exposure to the chemical including symptoms from the lowest to the most severe exposure.
Listed in the National Toxicology Program Report on Carcinogens	: No
Found to be a potential carcinogen in the International Agency for Research on Cancer Monographs	: No
Found to be a potential carcinogen by OSHA	: No

11.2 Effects from long term exposure

Delayed Effects	: Irritation of affected area
Immediate Effects	: Irritation of affected area
Chronic Effects	: Teratogenic effects
The numerical measures of toxicity (e.g., acute toxicity estimates such as the LD50 toxicity estimates such as the LD50 (median lethal dose)	: Skin: LD50 - Rabbits - >10600 mg/kg Ingestion: LD50 - Rats - 7712 mg/kg; Lethal Dose Human Adult - 90mL.
Description of the symptoms	: Irritation, nausea, vomiting, abdominal pain, weakness, muscle tenderness, respiratory failure, convulsions, cardiovascular collapse, pulmonary edema, hypocalcemic tetany, metabolic acidosis, death.
Listed in the National Toxicology Program Report on Carcinogens	: No
Found to be a potential carcinogen in the International Agency for Research on Cancer Monographs	: No
Found to be a potential carcinogen by OSHA	: No

Section 12 - Ecological Information

Ecotoxicity	: Low Ecotoxicity
Persistence and Degradability	: Biodegradable.
Bioaccumulation	: Does not bioaccumulate significantly
Mobility in Soil	: Dissolves in water. If product enters soil, it will be highly mobile and may contaminate ground water.
Other Adverse Effects	: No Data Available

Section 13 - Disposal Considerations

13.1 Waste treatment

Do not dump into sewers, on ground or into any bodies of water. Contact local sewer, municipal, state and/or federal agencies to determine appropriate disposal options

Section – 14 Transportation Information

Is product DOT regulated in Non-Bulk packaging? : No

UN number	UN3082
UN proper shipping name	Environmentally hazardous substances, liquid, n.o.s
Transport hazard class(es)	9
Packing group number	III
Environmental hazards (e.g., identify if it is a marine pollutant according to the International Maritime Dangerous Goods Code (IMDG Code))	Not Regulated
Guidance on transport in bulk (according to Annex II of MARPOL 73/783 and the International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (International Bulk Chemical Code (IBC Code))	Not Regulated
Any special precautions which an employee should be aware of or needs to comply with, in connection with transport or conveyance either within or outside their premises.	Reportable Quantity (RQ): 5000 lbs Ethylene Glycol

Section 15 - Regulatory Information

Safety Regulations : OSHA Hazard Communication Standard: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SARA 311/312	Based upon available information, this material is classified as the following health and/or physical hazards according to Section 311 & 312	Superfund Amendments and Reauthorization Act of 1986 Title III (SARA) Sections 311 and 312: Immediate (Acute) Health Hazard - Yes; Delayed (Chronic) Health Hazard - Yes; Fire Hazard - No; Reactive Hazard - No; Sudden Release of Pressure Hazard - No. Section 313: Product contains the following substances which are subject to reporting requirements and are listed in 40 CFR 372 - Component: Ethylene Glycol CAS#: 107-21-1 Amount: >=99.0%
HMIS	Blue/Health Red/Flammability Orange/Physical Hazard White/Personal Protection	2 1 0 X
NFPA 0(no hazard) to 4(severe risk)	Health (Blue) Flammability (Red) Special (White) Instability/Reactivity (Yellow)	2 1 0 N/A
US Toxic Substance Control Act		All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30
CEPA – Domestic Substances List (DSL)		All substances contained in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.

Section 16 - Other Information

This SDS is applicable for all dilutions and containers for this brand of product. The information herein is provided in good faith and believed to be accurate as of the effective revision date shown. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/ user's responsibility to ensure that activities comply with all federal, state, provincial or local law.

Properties	60%	50%	40%	35%	30%	25%
PAH NOL® Gold Antifreeze		46%				
Performance Additives and Water		54%				
Specific Gravity (15/150 C 60/600 F)		1.060 - 1.090				
Reserve Alkalinity (min)		2				
Freeze Point Max		-34°F / -37°C				

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