



# Material Safety Data Sheet

MSDS: GPM-7

## SECTION 1: CHEMICAL PRODUCT AND COMPANY INFORMATION

<b>Company:</b> IDQ Operating Inc. 2901 W Kingsley Dr. Garland, Texas 75041 Phone No.: 1-888-396-0422 CHEMTREC Phone No.: 1-800-424-9300	<b>HAZARD RATING</b> Health: 1 Fire: 1 Reactivity: 0 Special: -- Toxicity: 1	<b>SCALE</b> 0 = Insignificant 1 = Slight 2 = Moderate 3 = High 4 = Extreme
---	---	--

**Product Description:** Automotive Refrigerant with Lubrication Oil

**Name:** Medium Viscosity PAG Lubricant (ISO 100) with ICE 32 for R-134a A/C Systems, 8 oz

**Product Code:** GPM-7

**MSDS Date:** 11-19-2010

## SECTION 2: COMPOSITION AND INFORMATION ON INGREDIENTS

No.	Description	CAS Reg. No.	Units	Amount
1	Polyalkylene Glycol	Trade Secret	% vol	30-90
2	Additive Package	Trade Secret	% vol	10-70

This product contains no known hazardous materials as defined by OSHA hazard communication standard 29 CFR 1910.1200 and SARA 311 and 312.

\* Trade secret – proprietary formula. Specific chemical identities are withheld as a trade secret under the provisions of OSHA hazard communication standard 29 CFR 1910.1200.

## SECTION 3: HAZARDS INFORMATION

**Portals of Entry:** Ingestion, eye contact, skin contact, and dermal absorption.

**Inhalation:** Inhalation of vapor concentrations should not occur at STP conditions.

**Eye Contact:** Liquid splashes may cause eye irritation.

**Skin Contact:** Frequent contact can cause skin irritations, dermatitis, oil acne, absorption of certain components can occur.

**Ingestion:** The product, if ingested, could cause nausea, gastrointestinal disturbances, headaches, drowsiness, vertigo, abdominal pain, and dizziness.

**Delayed Effects:** Prolonged and repeated overexposure can cause irritation of the respiratory tract and mucous membranes, central nervous system (CNS) effects, blood dysfunction, and kidney effects.

## HEALTH EFFECTS FROM OVEREXPOSURE:

**Primary Routes of Exposure:** Skin contact.

### SECTION 4: FIRST AID MEASURES

**Inhalation:** Inhalation under normal exposure should not cause problems; however if inhalation has resulted in symptoms, move patient to fresh air. If breathing is difficult, give oxygen. Give artificial respiration if breathing has stopped. Get prompt medical attention.

**Eye Contact:** Immediately flush eyes with a large amount of water for at least 15 minutes. If symptoms exist and/or persist, get prompt medical attention.

**Skin Contact:** Wash affected skin areas thoroughly with soap and water. Remove contaminated clothing. If skin irritation persists, see a physician.

**Ingestion:** If swallowed, give large quantities of water to drink. Induce vomiting. Careful gastric lavage may be indicated. Immediately see a physician. Never give anything by mouth nor induce vomiting of an unconscious person.

### SECTION 5: FIRE FIGHTING MEASURES

**Unusual Hazards:** Toxic fumes are generated when material is exposed to fire and fire conditions.

**Extinguishing Agents:** Use the following extinguishing media when fighting fires involving this material: polar solvent foam, carbon dioxide, dry chemical, and water spray. Product is immiscible and insoluble in water and has a lower specific gravity than water; therefore, product will float on water surface.

**Personal Protective Equipment:** Wear self-contained breathing apparatus and full protective gear.

**Special Precautions:** Use water spray to cool large containers exposed to fire. Vapors are denser than air and will have a tendency to accumulate in lower areas which can cause the vapors to concentrate and suffocate. If the product is exposed to fire or an ignition source that results in flammability, extinguish with polar solvent foam, carbon dioxide, dry chemical, and water spray.

## FIRE AND EXPLOSIVE PROPERTIES:

### PROPERTY

Flash Point (°C); [°F]:	176; 348
Auto-Ignition Temperature (°C):	Not Determined
Lower Explosive Limit (ppm):	Not Known
Upper Explosive Limit (ppm):	Not Known

### SECTION 6: ACCIDENTAL SPILL OR LEAK RELEASE INFORMATION

**Personal Protection:** Appropriate protective equipment must be worn when handling a large spill of this material. See the PERSONAL PROTECTION MEASURES Section for recommendations. If exposed to material during clean-up operations, see the FIRST AID PROCEDURES Section for actions to follow.

**Procedures:** Evacuate the spill area. Floor may be slippery if non-volatile components in product have wetted the floor; use care to avoid falling. Ventilate the spill area. Contain non-volatile material spills immediately with inert adsorption materials. Transfer liquids and solid adsorption materials and diking material to separate suitable containers for recovery or disposal.

**CAUTION:** Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

## SECTION 7: HANDLING AND STORAGE

**Storage Conditions:** Store in a cool, well ventilated place. Keep containers dry. Store product away from reactive and corrosive materials. The minimum recommended storage temperature for this material is -29° C/ -20° F. The maximum storage temperature is 49° C/ 120° F.

**Handling Procedures:** The vapor concentration levels in air need to be kept below occupational exposure limits and kept as low as practicable. Do not mix product with air or oxygen under pressure. Avoid exposure of product to flame or very hot surfaces. Vapors can be evolved when material is being used in processing operations. See FACILITY CONTROL MEASURES Section for types of ventilation required.

## SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Respiratory Protection:** A respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. If respiratory protection is needed, use, MSHA-NIOSH approved respirator for organic vapors. None required if airborne concentrations are maintained below the TWA/TLV's listed in the COMPONENT EXPOSURE INFORMATION Section.

Up to 10 times the TWA/TLV: Wear a half-mask, air purifying respirator.

Up to 1000 ppm organic vapor: Wear an approved full-face piece, air-purifying respirator.

Above 1000 ppm organic vapor or unknown: Wear an approved positive pressure mode, or an approved full-face piece airline respirator in the positive pressure mode with emergency escape provisions.

Air purifying respirators should be equipped with organic vapor cartridges.

**Eye Protection:** Use eye goggles and/or face shield.

**Hand Protection:** The gloves listed below may provide protection against permeation. Gloves of other chemically resistant materials may not provide adequate protection: Polyvinyl alcohol and Viton.

Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough.

**Other Protection:** Use chemically resistant apron or other impervious clothing to avoid prolonged or repeated skin contact.

### FACILITY CONTROL MEASURES:

**Ventilation:** Use normal local exhaust ventilation with a minimum capture velocity of 100 ft/min (30 m/min) at the point of vapor evolution.

**Other Protective Equipment:** Facilities storing and utilizing this material should be equipped with an eyewash facility and a safety shower.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**TYPICAL PHYSICAL PROPERTIES:**

<b>PROPERTY</b>	<b>METRIC UNITS</b>	<b>ENGLISH UNITS</b>
Appearance:	Liquid in Plastic Container	
Color:	Light Amber	Light Amber
State:	Liquid	Liquid
Odor Characteristics:	Ethereal	Ethereal
Viscosity (CP @ 20° C); [CP @ 68° F]:	84-106	84-106
Specific Gravity (d/do 4°C); [d/do 39°F]	1.03	1.03
Density (gr/cm <sup>3</sup> ); [lb/gal]	1.14	9.48
Vapor Density (Air = 1.0):	9	9
Vapor Pressure (mm Hg @ 20° C); [psia]:	0.01	0.01
Melting Point (°C); [°F]:	NA	NA
Boiling Point (°C); [°F]:	300	572
Solubility in Water (by weight):	88%	88%
Evaporation Rate (n-butyl acetate = 1.0):	NA	NA
pH (product or water extract)	< 8	< 8
Percent Volatility (% wt):	NA	NA

**SECTION 10: STABILITY AND REACTIVITY**

**Stability:** Stable under normal conditions.

**Thermal Decomposition Products:** Thermal decomposition depend upon temperature, air supply and the presence of other materials. Decomposition products can include and are not limited to: aldehydes, alcohols, ethers and organic acids.

**Hazardous Polymerization:** Product will not undergo polymerization.

**Incompatibility:** Avoid contact with strong oxidizing agents, strong acids and strong bases.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**COMPONENT EXPOSURE INFORMATION:**

No.	Description	CAS Reg. No.	Units	Max. Amount Amount
1	Polyalkylene Glycol	Trade Secret	% vol	30-90
2	Additive Package	Trade Secret	% vol	10-70

**Exposure Information for Specific Component:**

No.	Health Rating	Flam. Rating	Reactivity Rating	Component Units	OSHA		ACGIH			
					TWA	STEL	TWA	STEL	IDLH	HAP
1	0	1	0	ppm	NA	NA	NA	NA	NA	No
2	1	1	0	ppm	NA	NA	NA	NA	NA	No

NA: Not Available; ppm: parts per million

Note: 1 ppm equals 3.8 mg/m<sup>3</sup>; 5 ppm equals 19 mg/m<sup>3</sup>; 10 ppm equals 38 mg/m<sup>3</sup>; 100 ppm equals 380 mg/m<sup>3</sup>.

**SECTION 12: ECOLOGICAL INFORMATION**

**Persistence and Degradability**

Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions.

Potential to Bioaccumulation: Not expected because of the relatively high water solubility

Biodegradability: Estimated to be less than 40% degradation over a test period of more than 28 days.

**SECTION 13: DISPOSAL INFORMATION**

**WASTE DISPOSAL:**

**Procedure:** For disposal, dispose this material at a facility that complies with local, state, and federal regulations.

**SECTION 14: TRANSPORTATION INFORMATION**

**DOT Hazard Description:** Not Regulated

**IMDG Hazard Description:** Not Regulated

**SECTION 15: REGULATORY INFORMATION**

EPA Regulation:

SARA SECTION 355/370, and 372: This product does not contain any chemicals subject to reporting requirements of SARA 313.

All components of this product are on the TSCA list.

State Regulations: This product meets requirements of Southern California AQMD Rule 443.1 and Similar Regulations California Proposition 65: This product contains the following chemical known to the State of California to cause cancer: None.

**SECTION 16: OTHER INFORMATION**

All information, recommendations, and suggestions made by IDQ, Inc. ("Company") appearing herein concerning our product are based upon tests and data believed to be reliable. However, because of the variable characteristics of analytical procedures and samples, and the inability to control its customers' uses of the information and recommendations, or the related products or materials, Company makes NO WARRANTY, EXPRESS OR IMPLIED as to the accuracy of the information or recommendations or that such are fit for any general or specific purpose, whatsoever. Company shall have NO LIABILITY arising from the use by its customers or any third parties of the information and recommendations, and it shall be each customer's sole responsibility to determine the suitability for its own use of any information or recommendations provided by Company.