

ANDEROL Company  
Specialty Lubricants

24 Hour Emergency Number: 973-887-7411  
24 Hour CHEMTREC Number: 800-424-9300

Approval Date: March 26, 1996  
Print Date: February 07, 1997

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MSDS Number: 0427105 BL-23

# 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

19995499

Product Name : PQ® AA 90 Food Grade Oil  
Product Number: 0427105  
Synonyms : Mineral Oil Based Lubricant  
Product Use/Class: Food grade lubricant

Supplier/Manufacturer:  
ANDEROL Company  
215 Merry Lane  
East Hanover, NJ 07936

Environmental and Regulatory Affairs, Information Number: 973-887-7410

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

This product does not contain any components considered to be health hazards under the OSHA Hazard Communication Standard 29 CFR 1910.1200 or under the WHMIS Controlled Product Regulations in Canada.

## 3. HAZARDS IDENTIFICATION

### \*\*\* EMERGENCY OVERVIEW \*\*\*:

Low hazard for usual industrial handling.

### POTENTIAL HEALTH EFFECTS

Eye Contact:  
No hazard expected in normal use.

Skin Contact:  
No hazard expected in normal use

Inhalation:  
Breathing of mist may cause irritation of nasal and respiratory passages.

Ingestion:  
No hazard expected in normal use. Aspiration of this product into the respiratory system during ingestion or vomiting may cause mild to severe pulmonary injury.

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#### 4. FIRST AID MEASURES

##### FIRST AID

##### Eye Contact:

In case of contact, immediately flush eyes with plenty of water. Obtain medical attention if irritation develops or persists.

##### Skin Contact:

Wash with soap and water.

##### Inhalation:

Remove to fresh air. If not breathing, give CPR. If breathing is difficult, give oxygen. Get immediate medical attention.

##### Ingestion:

If swallowed, do NOT induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

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#### 5. FIRE FIGHTING MEASURES

Flash Point: 380 °F

Lower Explosive Limit: Not available

Flash Point Method: ASTM D92

Upper Explosive Limit: Not available

##### Other Flammable Properties:

Can burn in fire forming carbon dioxide and some carbon monoxide.

##### Extinguishing Media:

Use water spray or fog, foam, dry chemical or CO2.

##### Fire Fighting Procedures:

As in any fire, wear self-contained positive-pressure breathing apparatus, (MSHA/NIOSH approved or equivalent) and full protective gear. Containers can build up pressure if exposed to heat (fire). Cool with water spray.

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#### 6. ACCIDENTAL RELEASE MEASURES

##### Steps To Be Taken In Case Material Is Released Or Spilled:

Ventilate area. Absorb spill with inert material and place in a chemical waste container. Obey relevant local, state and federal laws and regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil. Use personal protective equipment as described in Section 8.

## 7. HANDLING AND STORAGE

### Handling:

Wash thoroughly after handling. Use with adequate ventilation. Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing.

### Storage:

Store in a cool, dry place. Keep container closed when not in use.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

This product does not contain any components considered to be health hazards under the OSHA Hazard Communication Standard 29 CFR 1910.1200 or under the WHMIS Controlled Product Regulations in Canada.

### Engineering Controls:

Use adequate ventilation.

### Respiratory Protection:

A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

This product contains mineral oil which when misted has an OSHA PEL and an ACGIH TLV of 5 mg/m<sup>3</sup> and an ACGIH STEL of 10 mg/m<sup>3</sup>.

### Eye Protection:

Wear safety glasses with side shields.

### Skin Protection:

Use impermeable gloves to minimize skin contact

### Other Protective Equipment:

To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Vapor Pressure	:	<0.01 mm Hg @ 300 F
Vapor Density (Air = 1)	:	Is heavier than air
Specific Gravity	:	0.89
Boiling Point	:	>450 F
pH	:	NA
Viscosity	:	1100 SUS @ 100 F
Evaporation Rate	:	Is slower than Butyl Acetate

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## 9. PHYSICAL AND CHEMICAL PROPERTIES (CONTINUED)

### Other Properties:

Colorless to light yellow. Liquid. Mild odor. Solubility in water:  
Negligible.

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## 10. STABILITY AND REACTIVITY

### Stability:

This product is stable under normal storage conditions.

### Hazardous Polymerization:

Will not occur under normal conditions.

### Conditions To Avoid:

Not Applicable.

### Incompatibility With Other Materials:

Oxidizing materials.

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## 11. TOXICOLOGICAL PROPERTIES

### Other Toxicological Information:

No information available.

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## 12. ECOLOGICAL INFORMATION

### Ecological Information:

No information available

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## 13. DISPOSAL CONSIDERATIONS

### Disposal Method:

Waste must be disposed of in accordance with federal, state and local regulations. Incineration is the preferred method.

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## 14. TRANSPORTATION INFORMATION

### U.S. DOT Transport Information

Proper Shipping Name: Not regulated

## 15. REGULATORY INFORMATION

### J.S. Federal Regulations

#### OSHA:

This document has been prepared in accordance with the MSDS requirements of the OSHA Hazard Communication Standard.

#### SARA Section 311/312:

Hazard Classifications: None

#### SARA Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

None

#### TSCA:

This product or its components are listed in or exempt from the TSCA inventory requirements.

This product contains the following substances subject to export notification under Section 12(b) of TSCA:

None

### State Regulations

#### California (Proposition 65):

This product contains the following substances known to the State of California to cause cancer:

None

This product contains the following substances known to the State of California to cause adverse reproductive effects:

None

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## 16. OTHER INFORMATION

HMIS Ratings: Health - 0      Flammability - 1      Reactivity - 0  
Ratings Key: 4 = Highest hazard, 0 = Lowest hazard, \* = Chronic Health Hazard

#### Key to abbreviations used:

NA      Not applicable

NAV      Not available

NE      Not established

NJTSR No. New Jersey Trade Secret Registry Number

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16. OTHER INFORMATION (CONTINUED)

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Revision Summary:

This is the first issue of this MSDS in the ANSI Z400.1-1993 format.

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## PRODUCT DATA

# PQ<sup>®</sup> FOOD GRADE GEAR OILS

### DESCRIPTION

SAE 90 & 140 Grade white oil based lubricants designed to provide high performance where incidental food contact may occur.

PQ Food Grade Gear Oils are fully approved by the USDA meeting all the requirements of the FDA regulation 21 CFR 178.3570.

### ADVANTAGES

PQ AA90 and AA140 offer:

- ⇒ USDA H1 approval
- ⇒ Excellent EP properties
- ⇒ Exceptional anti-wear properties
- ⇒ Rust and oxidation inhibited
- ⇒ Comparable in performance to many premium non-food grade gear lubricants

### APPLICATIONS

SAE 90 and 140 Gear Oils are for all gear boxes where incidental food contact may occur, such as:

- Worm Gears
- Helical Gears
- Herringbone Gears
- Bevel Gears
- Enclosed Gears

Food, bottling and can closing machinery.

Any application in food contact areas requiring a high viscosity lubricant.

### APPROVALS

PQ Food Grade Lubricants are approved, recommended, and field tested by many OEM's in the food processing, baking, bottling, canning, meat processing, and pharmaceutical industries.

For more information: 215 Merry Lane □ P.O. Box 518 □ E. Hanover, NJ 07936 □ 973-884-3830 □ Fax 973-884-3825

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## PQ Food Grade Gear Oils

PROPERTIES	TEST METHOD	AA90	AA140
ISO Grade	ASTM D 2422	220	460
SAE Grade	SAE J300	90	140
Viscosity @ 40°C, cSt	ASTM D 445	207.1	367.6
Viscosity @ 100°C, cSt	ASTM D 445	17.0	27.8
Viscosity @ 100°F, SUS	ASTM D 2161	1,100	1,960
Viscosity @ 210°F, SUS	ASTM D 2161	88	132
Viscosity Index	ASTM D 2270	103	103
Pour Point, ° F	ASTM D 97	0	0
Flash Point, ° F, COC	ASTM D 92	380	380
Copper Corrosion, 3 hrs @ 212°F (100°C)	ASTM D 130	1a	1a
Rust Test	ASTM D 665 B	Pass	Pass
Color	ASTM D 1500	1	1
Film Strength - Falex (min), lbs	ASTM D 3233 B	3,000	3,000
Timken OK Load, lbs	ASTM D 2782	50	50
Four-Ball Wear, 1200 rpm, 167°F (75°C), 40 Kg, 1 hr, mm	ASTM D 2266	0.3	0.3
Specific Gravity 60°F (15.6°C)	ASTM D 1298	0.89	0.89

"Note - the data contained herein are typical: actual results may vary."

**HANDLING & STORAGE** - PQ Food Grade Lubricants generally present little hazard in normal handling if ordinary care is exercised. If spilled, cover with inert, absorbent material and remove. Flush the area with water.

Although PQ Food Grade Lubricants are not highly flammable, they will burn and should be kept away from open flames. In case of fire, use water spray, foam, carbon dioxide, or dry chemical.

PQ Food Grade Lubricants should be stored preferably in protected locations to prevent contamination. Do not re-use drums; flush and send to reconditioner.

**MATERIAL SAFETY DATA SHEETS** - providing additional information on the properties of Specialty Lubricants are available from your local distributor, or from Anderol Company, 215 Merry Lane, East Hanover, N.J. 07936, Phone 1-888-ANDEROL.