

# MATERIAL SAFETY DATA SHEET

Page 1 of 4

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** GEAR 80W-90 GL-5

**Product Code:**

**Chemical Name:** Heavy Duty, Multi-grade Gear Oil

**Chemical Family:** Blend

**Manufacturer:** Scot Lubricants of PA  
1801 E. Tremont Street  
P.O. Box 326  
Allentown, PA 18105

**Emergency Telephone Numbers:**

Information: 610-433-2527 8am-5pm EST M-F  
CHEMTREC: 800-424-9300 24 hrs everyday

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

| EXPOSURE GUIDELINES                                     |                       |        | OSHA               |      | ACGIH             |      | UNIT  |
|---|-----------------------|--------|--------------------|------|-------------------|------|-------|
| Component/CAS Number                                    | LO%                   | HI%    | TWA                | STEL | TWA               | STEL |       |
| LIMITS FOR THE PRODUCT                                  |                       |        | 5                  |      | 5                 |      | MG/M3 |
| SEVERELY SOLVENT REFINED HEAVY PARAFFINIC PETROLEUM OIL |                       |        |                    |      |                   |      |       |
| 64741-88-4  | 90.00                 | 100.00 | 5                  |      | 5                 |      | MG/M3 |
| SEVERELY SOLVENT REFINED RESIDUUM                       |                       |        |                    |      |                   |      |       |
| 64742-01-4  | .00                   | 60.00  | 5                  |      | 5                 |      | MG/M3 |
| ACRYLIC COPOLYMER                                       |                       |        |                    |      |                   |      |       |
| 68171-46-0  | .00                   | 1.00   |                    |      | NO SPECIFIC LIMIT |      |       |
| SULFURIZED OLEFIN                                       |                       |        |                    |      |                   |      |       |
|   | .00                   | 5.00   |                    |      | NO SPECIFIC LIMIT |      |       |
| POLYBUTENYL SUCCINIMIDE/AMIDE BORATE                    |                       |        |                    |      |                   |      |       |
|   | 1.00                  | 5.00   |                    |      | NO SPECIFIC LIMIT |      |       |
| ALKYLAMINE SALT OF DITHIOPHOSPHORIC ACID                |                       |        |                    |      |                   |      |       |
|   | 1.00                  | 5.00   |                    |      | NO SPECIFIC LIMIT |      |       |
| ADDITIONAL EXPOSURE LIMITS -----                        | GOVERNMENT REGULATION |        |                    |      |                   |      |       |
| OTHER LIMIT – OIL MIST: 5MG/M3                          |                       |        | OSHA PEL/ACGIH TLV |      |                   |      |       |

## 3. HAZARD IDENTIFICATION

### EMERGENCY OVERVIEW

**MAY CAUSE SKIN IRRITATION**

**APPEARANCE:** DARK VISCOUS FLUID

**ODOR:** SLIGHT ODOR

**POTENTIAL HEALTH EFFECTS:**

**INHALATION:** NO EFFECTS EXPECTED.

**INGESTION:** PRACTICALLY NON-TOXIC.

**EYE CONTACT:** EXPECTED TO BE MINOR EYE IRRITANT.

**SKIN CONTACT:** PRACTICALLY NON- TOXIC IF ABSORBED (LD50 > 2000 MG/KG). MAY CAUSE MODERATE IRRITATION WITH PROLONGED OR REPEATED CONTACT.

**CARCINOGEN LISTED BY:** IARC (N0) NTP (NO) OSHA (NO) ACGIH (NO) OTHER (NO)

### NFPA/HMIS CLASSIFICATION

HEALTH – 0/0

FLAMMABILITY – 1/1

REACTIVITY – 0/0

### HAZARD RATING

0= LEAST 1=SLIGHT

2=MODERATE 3=HIGH

4=EXTREME

Revision: 04/30/2007

NA=Not Applicable

ND=No Data

NE=Not Established

---

#### 4. FIRST AID MEASURES

---

**INHALATION:** Move to fresh air.

**EYE CONTACT:** Flush with water for at least 15 minutes. If irritation persists, obtain medical assistance.

**SKIN CONTACT:** Wash with soap and water until no odor remains. If redness or swelling develops, obtain medical assistance. Wash clothing before reuse.

**INGESTION:** Practically non-toxic. Induction of vomiting not required. Obtain emergency medical attention. Small amounts, which accidentally enter mouth, should be rinsed out until taste of it is gone.

---

#### 5. FIRE FIGHTING MEASURES

---

**FLASHPOINT (METHOD):** 330°F Minimum COC; 168°C Minimum COC

**FLAMMABLE LIMITS:** Not established

**AUTO-IGNITION TEMP:** 675°F Estimated; 359°C Estimated

**EXTINGUISHING MEDIA:** Water spray, dry chemical, carbon dioxide (CO<sub>2</sub>), foam.

**FIRE FIGHTING INSTRUCTIONS:** Avoid breathing smoke and vapor.

**FIRE FIGHTING EQUIPMENT:** Wear self-contained breathing apparatus and protective clothing. Use water spray to keep fire-exposed containers cool

**HAZARDOUS COMBUSTION PRODUCTS:** Normal combustion forms carbon dioxide and water vapor; incomplete combustion can produce carbon monoxide.

---

#### 6. ACCIDENTAL RELEASE MEASURES

---

**SPILLS OR LEAKS:** Contain spill, advise EPA, state agency, if required. Absorb on inert material, shovel, sweep or vacuum spill.

---

#### 7. HANDLING AND STORAGE

---

NFPA Class IIIB Storage. Wash thoroughly after handling.

---

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

---

**VENTILATION:** Ventilate as needed to comply with exposure limit. General dilution ventilation acceptable.

**PERSONAL PROTECTIVE EQUIPMENT —**

**EYE:** Splash proof chemical goggles recommended to protect against splash of product.

**GLOVES:** Protective gloves recommended when prolonged skin contact cannot be avoided. The following glove materials are acceptable: polyvinyl chloride (PVC); neoprene; nitrile; polyvinyl alcohol; viton.

**RESPIRATOR:** Concentration in air determines protection needed. Use only NIOSH certified respiratory protection. Respiratory protection usually not needed unless product is heated or misted. Half-mask air purifying respirator with dust/mist filters or HEPA filter cartridges is acceptable to 10 times the exposure limit. Full-face air purifying respirator with dust/mist filters or HEPA filter cartridges is acceptable to 50 times the exposure limit.

Protection by air purifying respirators is limited. Use a positive pressure demand full-face supplied air respirator or SCBA for exposures above 50X the exposure limit. If exposure is above IDLH (immediately dangerous to life and health) or there is the possibility of an uncontrolled release or exposure levels are unknown then use a positive pressure demand full face supplied air respirator with escape bottle or SCBA.

**OTHER:** If contact is unavoidable, wear chemical resistant clothing. The following materials are acceptable as protective clothing materials: polyvinyl alcohol (PVA); polyvinyl chloride (PVC); neoprene; nitrile; viton; polyurethane; launder soiled clothes.

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

---

|   |   |
|---|---|
| <b>APPEARANCE/ODOR:</b> DARK AMBER FLUID/SLIGHT ODOR.<br><b>VAPOR PRESSURE:</b> <0.0001 (MM HG @ 20°C)<br><b>MOLECULAR WEIGHT:</b> N/A (G/MOLE)<br><b>SOLUBILITY IN WATER:</b> NIL (% BY VOLUME)<br><b>EVAPORATION RATE:</b> 1000X SLOWER (ETHYL ETHER=1)<br><b>SPECIFIC GRAVITY:</b> 0.86 (WATER=1)<br><b>VISCOSITY:</b> 450 SUS @ 100°F                      165.8 cSt @ 40°C | <b>BOILING POINT:</b> HIGH<br><b>MELTING POINT:</b> N/A<br><b>PACKING DENSITY:</b> N/A<br><b>OCTANOL/WATER COEFF:</b> N.D.<br><b>ODOR THRESHOLD:</b> N.D.<br><b>VAPOR DENSITY:</b> 10+ (AIR =1) |
|---|---|

---

## 10. STABILITY AND REACTIVITY

---

**STABILITY:** Stable.  
**CONDITIONS TO AVOID:** None known.  
**MATERIALS TO AVOID:** Strong oxidizing agents.  
**HAZARDOUS POLYMERIZATION:** Will not occur.  
**HAZARDOUS DECOMPOSITION:** Combustion will produce carbon monoxide and asphyxiants.

---

## 11. TOXICOLOGICAL INFORMATION

---

### FOR THE PRODUCT –

**INHALATION:** Low acute toxicity. **SKIN:** Practically non-toxic if absorbed. Mild irritation with prolonged or repeated contact. **EYE:** Mildly irritating on contact. **ORAL:** Practically non-toxic.  
**SEVERELY SOLVENT REFINED HEAVY PARAFFINIC PETROLEUM OIL:** **INHALATION:** low acute toxicity. **SKIN:** practically non-toxic if absorbed may cause moderate irritation with prolonged and repeated contact. **EYE:** minimally irritating on contact. **INGESTION:** Practically non-toxic if swallowed.  
**SEVERELY SOLVENT REFINED RESIDUUM:** **INHALATION:** Low acute toxicity expected. **SKIN:** Practically non-toxic by absorption. May cause minimal irritation with prolonged/repeated contact. **EYE:** Minimally irritating on contact. **INGESTION:** Practically non-toxic if swallowed.  
**SULFURIZED OLEFIN:** **INHALATION:** Excessive exposure may cause irritation to eye, nose and throat: central nervous system effects, including dizziness, loss of balance, respiratory failure & death: Toxic. **SKIN:** Prolonged/repeated contact may cause mild irritation. **EYES:** Minimal irritation. **ORAL:** Slightly toxic.  
**ACRYLIC COPOLYMER:** No data available for all routes of exposure.  
**ALKYLAMINE SALT OF DITHIOPHOSPHORIC ACID:** No data available for any route of exposure. Some salts release toxic hydrogen sulfide vapors when heated. This can cause respiratory paralysis and death.

---

## 12. ECOLOGICAL INFORMATION

---

**ECOTOXICITY:** No data available.

---

## 13. DISPOSAL INFORMATION

---

Follow federal, state and local regulations. Not RCRA hazardous waste if uncontaminated. If “used”, RCRA criteria (ignitability, reactivity corrosivity, toxicity characteristics) must be determined. Do not flush to drain/storm sewer. Contract to authorized disposal service.

---

**14. TRANSPORTATION INFORMATION**


---

**DOT**

PROPER SHIPPING NAME    Petroleum Lubricating Oil  
 HAZARD CLASS:            Not regulated  
 ID NUMBER:                Not regulated  
 LABEL REQUIRED:           Not regulated  
 IMDG PROPER SHIPPING NAME:    N.D.  
 IATA PROPER SHIPPING NAME:    N.D.

---

**15. REGULATORY INFORMATION**


---

TSCA: This material is in compliance with the TOXIC SUBSTANCES CONTROL ACT (15 USC 2601-2629) and is listed in the TSCA Inventory.

|                                      |          |                            |    |
|--------------------------------------|----------|----------------------------|----|
| SARA 302 THRESHOLD PLANNING QUANTITY | N/A      |                            |    |
| SARA 304 REPORTABLE QUANTITY         | N/A      |                            |    |
| SARA 311/312 REPORTING:              | Health   | Immediate (Acute)          | No |
|                                      | Health   | Delayed (Chronic)          | No |
|                                      | Physical | Fire                       | No |
|                                      | Physical | Sudden Release of Pressure | No |
|                                      | Physical | Reactive                   | No |

When a product and/or component are listed below, the regulatory list on which it appears is indicated.

|                     |                           |                       |
|---------------------|---------------------------|-----------------------|
| 01=SARA 313         | 02= SARA 302/304          | 03=IARC CARCINOGEN    |
| 04=OSHA CARCINOGEN  | 05=ACGIH CARCINOGEN       | 06=NTP CARCINOGEN     |
| 07=CERCLA 302.4     | 08=WHMIS CONTROLLED PROD. |                       |
| 10=OTHER CARCINOGEN |                           |                       |
| PA=PA RTK           | NJ=NEW JERSEY RTK         | CA=CALIFORNIA PROP 65 |
| MA=MASS. RTK        | MI=MICHIGAN 406           | MN=MINNESOTA RTK      |
| FL=FLORIDA          | RI=RHODE ISLAND           | IL=ILLINOIS           |
| NY=NEW YORK         | WV=WEST VIRGINIA          | CT=CONNECTICUT        |
| LA=LOUISIANA        | ME=MAINE                  | OH=OHIO               |

---

**16. OTHER INFORMATION**


---

WHMIS CLASSIFICATION: NOT CONTROLLED  
 ELEMENTAL ANALYSIS: 1.7% SULFUR; 0.1% PHOSPHORUS

**SCOT LUBRICANTS OF PA, INC.**  
**1801 E. TREMONT STREET**  
**P.O. BOX 326**  
**ALLENTOWN, PA 18105**  
**610-433-2527**

The information on this form is furnished solely for the purpose of compliance with the OSHA Act, and shall not be used for any other purpose. The information herein is given in good faith and is based on data considered accurate. However, no warranty, expressed or implied, is made regarding the accuracy of these data or the results to be obtained from the use thereof.