

# MATERIAL SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** 10W-40

**Product Code:**

**Chemical Name:** Motor Oil

**Chemical Family:** Blend

**Manufacturer:** Scot Lubricants of PA, Inc.  
 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		
Component/CAS Number	LO%	HI%	TWA	STEL	TWA	STEL	UNIT
<b>LIMITS FOR THE PRODUCT:</b>							
Severely solvent refined heavy paraffinic petroleum oil			5		5		MG/M3
64741-88-4	.00	80.00	5		5		MG/M3
Ethylene/propylene copolymer							
9010-79-1	10.00	20.00				no specific limit	
Zinc dialkyl dithiophosphate							
68649-42-3	2.00	2.00				no specific limit	
Borated polyisobutenyl succinic anhydride							
	.00	10.00				no specific limit	
Acrylic copolymer							
68171-46-0	.00	1.00				no specific limit	
Hydrotreated heavy paraffinic petroleum oil							
64742-54-7	.00	80.00	5				MG/M3
Magnesium alkylaryl detergent							
	.00	10.0				no specific limit	
Alkyl diphenylamine							
27177-41-9	.00	1.00				no specific limit	
Polybutene							
9003-29-6	.00	1.00				no specific limit	
<b>ADDITIONAL EXPOSURE LIMITS</b> -----				<b>GOVERNMENT REGULATION</b>			
OTHER LIMIT – OIL MIST: 5MG/M3				OSHA PEL/ACGIH TLV			

## 3. HAZARD IDENTIFICATION

**EMERGENCY OVERVIEW**

**MAY CAUSE SKIN IRRITATION**

**APPEARANCE:** amber 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 (NO) NTP (NO) OSHA (NO) ACGIH (NO) OTHER (NO)

**NFPA/HMIS CLASSIFICATION**

**HEALTH – 0/0**

**FIRE – 1/1**

**REACTIVITY – 0/0**

**PERSONAL PROTECTION INDEX - X**

**HAZARD RATING**

**0= LEAST 1=SLIGHT**

**2=MODERATE 3=HIGH**

**4=EXTREME**

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#### 4. FIRST AID MEASURES

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**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. 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.

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#### 5. FIRE FIGHTING MEASURES

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**FLASHPOINT (METHOD):** 405°F Minimum COC; 208°C Minimum COC

**FLAMMABLE LIMITS:** Not established

**AUTOIGNITION TEMP:** 675°F Estimated; 359°C Estimated

**FIRE AND EXPLOSING HAZARDS:** Can be made to burn (flash point > 200F)

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

**FIRE FIGHTING INSTRUCTIONS:** Wear self-contained breathing apparatus. Wear structural fire-fighting protective clothing.

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

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#### 6. ACCIDENTAL RELEASE MEASURES

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**SPILLS OR LEAKS:** Contain spill, Use personal protective equipment state in section 8. Advise EPA, state agency, if required. Absorb on inert material, shovel, sweep or vacuum spill.

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#### 7. HANDLING AND STORAGE

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NFPA Class IIIB Storage. Avoid prolonged or repeated contact with skin. Avoid contact with eyes. Wash thoroughly after handling.

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#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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**VENTILATION:** Ventilate as needed to comply with exposure limit. Mechanical ventilation recommended.

**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.

**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.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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**APPEARANCE/ODOR:** AMBER FLUID/SLIGHT ODOR.  
**VAPOR PRESSURE:** NIL (MM HG @ 20°C)  
**MOLECULAR WEIGHT:** N/A (G/MOLE)  
**SOLUBILITY IN WATER:** NIL (% BY VOLUME)  
**EVAPORATION RATE:** 1000X SLOWER (ETHYL ETHER=1)  
**SPECIFIC GRAVITY:** 0.87 (WATER=1)  
**VISCOSITY:** 77.5 SUS @ 210°F                      103 CST @ 40°C

**BOILING POINT:** HIGH  
**MELTING POINT:** N/A  
**PACKING DENSITY:** N/A  
**OCTANOL/WATER COEFF:** N.D.  
**ODOR THRESHOLD:** N.D.  
**VAPOR DENSITY:** 10+ (AIR =1)

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## 10. STABILITY AND REACTIVITY

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**STABILITY:** Stable.  
**INCOMPATIBLE MATERIALS:** Strong oxidizers  
**HAZARDOUS POLYMERIZATION:** Will not occur.  
**HAZARDOUS DECOMPOSITION:** Combustion will produce carbon monoxide and asphyxiants.

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## 11. TOXICOLOGICAL INFORMATION

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### FOR THE PRODUCT –

**INHALATION:** Low acute toxicity. **SKIN:** expected to be acutely non-toxic if absorbed. mild irritation with prolonged/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.

**Ethylene/Propylene Copolymer:** No data available for all routes of exposure

**Zinc Dialkyl Dithiophosphate:** **INHALATION:** Toxic hydrogen sulfide is generated when heated above 200 deg. F. This can cause central nervous system (brain) effects, nausea, dizziness, confusion, loss of sense of smell, muscle cramps, in coordination, unconsciousness, coma, respiratory failure, or death. **SKIN:** Prolonged or repeated contact may cause moderate irritation, redness, drying, cracking, and dermatitis. **EYE:** Irritant. **ORAL:** Harmful if swallowed.

**Borated Polyisobutenyl Succinic Anhydride –** No data available for all routes of exposure.

**Acrylic Copolymer:** No data available for all routes of exposure.

**Hydrotreated Heavy Paraffinic Petroleum Oil:** **INHALATION:** Overexposure to mists or vapors may cause eye, nose, throat and respiratory tract irritation. **SKIN:** Prolonged or repeated contact may cause irritation. **EYE:** irritant. **ORAL:** Practically non-toxic if swallowed.

**Magnesium Alkylaryl Detergent:** No data available for all routes of exposure. Possible skin and eye irritation with contact.

**Alkyl Diphenylamine:** No data available for inhalation or eye contact. **SKIN:** Possible allergic reaction. **ORAL:** Toxic if swallowed. May cause loss of appetite, diarrhea, & death.

**Polybutene:** No significant effects by inhalation, skin absorption, or eye contact. **ORAL:** Practically non-toxic if swallowed

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## 12. ECOLOGICAL INFORMATION

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**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 product or all components of this product are listed on the U.S. TSCA inventory.

SARA 302 THRESHOLD PLANNING QUANTITY,	N/A		
SARA 304 REPORTABLE QUANTITY	N/A		
SARA 311 CATEGORIES:	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.

**ZINC DIALKYL DITHIOPHOSPHATE – NJ 01**

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**

**Caution! Prolonged or repeated contact with used motor oil may be harmful to skin and could cause skin cancer. Promptly wash affected area with soap and water. WHMIS Classification: Not Controlled**

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

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