

**MATERIAL SAFETY DATA SHEET**

Rev Date: 8/11/2011

**1. Identification of Substance and Company**

**Trade name :** Polyalphaolefins PAO2, PAO4, PAO5, PAO6, PAO7, PAO8, PAO9, PAO10, PAO40, PAO100  
**Chemical name :** 1-Decene, homopolymer, hydrogenated  
**Product number :** PAO-01  
**Company :** Soltex, Inc. (Synthetic Oils & Lubricants of Texas, Inc.)  
 3707 FM 1960 West, Suite 560  
 Houston, TX 77068 USA  
**Phone number:** (281)587-0900  
**Emergency phone:** Chemtrec 1-800-424-9300 (in USA and Canada)

**2. Composition**

CAS #	Chemical	%
68037-01-4	Polyalphaolefin	100

**3. Hazard Information**

Hazardous Ingredients:

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

EU Risk phrases:

Symbols: This product is not classified according to EU legislation.  
 R phrases: None

Canadian WHIMS:

Not a "Hazardous Product" under WHIMS classifications.

HMIS RATINGS

Health	1
Flammability	1
Reactivity	0
Personal Protection	C

**4. First Aid Measures**

**Immediate treatment:**

Eye contact:

May cause eye irritation. Flush with large amounts of water for at least 15 minutes. Call a physician.

Skin contact:

Wash skin thoroughly with soap and water after handling. Prolonged or repeated contact may cause dermatitis (skin irritation).

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Inhalation:

Remove to fresh air. If breathing is difficult, give oxygen and call a physician.

Ingestion:

Do not induce vomiting. Never give anything by mouth to an unconscious person. If symptoms persist, contact a physician.

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### 5. Fire Fighting Measures

Protective equipment:

As in any fire, firefighters must be equipped to prevent breathing of vapors or products of fire. Wear an approved self-contained breathing apparatus and protective clothing.

Extinguishing media:

Dry chemical, water fog, or foam. Closed containers may be cooled with water. Do not use a water jet.

Decomposition Products:

May include carbon monoxide and carbon dioxide.

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### 6. Accidental Release Measures

Procedures for spill cleanup:

Shut off leak and dike up large spills. Prevent product from entering drains. Eliminate heat and ignition sources and provide optimum explosion-proof ventilation. Move containers from spill area. Absorb with an inert material such as sand, soil or vermiculite. Sweep up absorbent and dispose according to regulatory requirements.

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### 7. Handling and Storage

Handling:

Keep drums tightly closed to prevent contamination. Avoid skin and eye contact. Wear recommended personal protection equipment. Discard or wash contaminated clothing before reuse. Never use pressure to empty drums.

Storage:

Store in accordance with local regulations. Store in a dry well ventilated area away from incompatible materials. Use appropriate containment to control any spills.

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### 8. Exposure Control / Personal Protection

Ventilation required:

None normally required. Use additional ventilation if needed to control vapor concentrations particularly if a mist is generated or fumes from hot material are present.

Respiratory protection:

None required if area adequately ventilated. Use appropriate respiratory protection if used in confined areas. Use a respirator with dual organic vapor/mist and particulates cartridge if vapor concentration exceeds permissible exposure limit.

Skin protection:

Wear protective gloves and apron.

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Eye protection:

Wear safety glasses with sideshields or chemical safety goggles and/or a face shield if splashing hazard exists. Contact lenses should not be worn.

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### 9. Physical and Chemical Properties

<u>Physical state at 25 °C:</u>	Liquid
<u>Color:</u>	Clear
<u>Odor:</u>	Odorless
<u>Specific Gravity:</u>	0.8 (PAO 2) – 0.855 (PAO 100)
<u>Flash point (ASTM D-93) °C:</u>	165 (PAO 2) – 288 (PAO 100)
<u>Viscosity (cSt):</u>	1.7 – 103 (100C); 5.1 – 1,350 (40C)

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### 10. Stability and Reactivity

This product is stable and not subject to hazardous polymerization.

Hazardous decomposition products:

Oxides of carbon (carbon monoxide and carbon dioxide)

Incompatible materials:

Strong oxidizers

Conditions to avoid:

Keep away from high heat

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### 11. Toxicological Information

Acute toxicity:

May cause eye and skin irritation. The handling procedures and safety precautions in this MSDS should be followed to minimize exposure.

Acute oral toxicity: LD50 > 5,000 mg/kg (Rat)

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### 12. Ecological Information

Not classified as dangerous. These products are not expected to bioaccumulate and are expected to be inherently biodegradable. These products are not likely to move rapidly with surface or groundwater flows due to their low water solubility. These products are not likely to volatilize rapidly into the air because of their low vapor pressures.

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### 13. Disposal Considerations

Dispose of properly complying with appropriate laws and regulations. Do not dispose of waste into sewer. Send to a licensed waste management company.



Adding value to  
your formulations

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### 14. Transportation Information

Not classified as a hazardous material or dangerous good for transportation by these agencies: DOT, TDG, IMO/IMDG, IATA.

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### 15. Regulatory Information

United States (TSCA Status):  
Listed in the TSCA inventory.

Canada (DSL):  
Listed on the Domestic Substance List

Canadian WHIMS:  
Not a "Hazardous Product" under WHIMS classifications.

Australia (AICS):  
Listed on the inventory.

Korea (ECL):  
Listed on the inventory.

Philippines (PICCS):  
Listed on the inventory.

China (IECSC):  
Listed on the inventory.

EC Inventory (EINECS):  
In compliance

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### 16. Other Information

No warranties, express or implied, including warranties of merchantability or fitness for a particular use are made with respect to the products described herein. Nothing contained herein shall constitute permission or a recommendation or inducement to practice any invention covered by a patent without the permission of the patent owner. Customers/users are advised to test the product in advance to make certain it is suitable for their particular production conditions and use or uses of the product. Seller shall not be liable for and the customer assumes all risk and liability for any use or handling of the product.