



**Material Safety Data Sheet**

**FIR No.:** 172360  
**Version Number:** CA-EN-6

**Level:** 1  
**Release Date:** 2009-09-22

**1. Product and Company Identification**

**Product Name:** Hypoid Gear Oil SAE 90  
**Product Code:** See Attachment  
**Application:** Rear axle lubricant  
**Supplier:** Ford Motor Company of Canada  
 Oakville, Ontario L6J 5E4  
 1-800-392-3673  
  
**Emergency Telephone:** Poison Control Center: 1-800-959-3673  
 CHEMTREC: U.S. and Canada: 1-800-424-9300  
 CHEMTREC: International: 1-703-527-3887

**2. Composition/Information on Ingredients**

This chemical product is a preparation.

Chemical Name	CAS Number	Percent Concentration	Hazard Classification
RESIDUAL OILS (PETROLEUM), SOLVENT DEWAXED	64742-62-7	60-100	RSMS_D_ALL HAZCOM RSMS_P_SOM
PETROLEUM DISTILLATES, HYDROTREATED HEAVY NAPHTHENIC	64742-52-5	15-40	HAZCOM RSMS_D_ALL RSMS_P_SOM
RESIDUAL OILS (PETROLEUM), SOLVENT REFINED	64742-01-4	5-10	RSMS_D_ALL HAZCOM RSMS_P_SOM

**3. Hazards Identification**

**Health:** Inhalation of mist and vapors may irritate the nose, throat, and lungs. Exposure to oil mist/fume/vapor may cause respiratory tract irritation. May cause eye irritation. Ingestion may cause slight stomach irritation and discomfort. Prolonged and/or repeated skin contact with this product may cause irritation/dermatitis.

**4. First-Aid Measures**

**Inhalation:** If gas/fume/vapor/dust/mist from the material is inhaled, remove the affected person immediately to fresh air. If irritation persists, get medical attention.

**Skin Contact:** Wash skin with soap and water. If irritation persists, get medical attention.

**Eye Contact:** In case of contact with eyes, rinse immediately with plenty of water for at least 15 minutes and seek medical attention. If irritation persists, get medical attention.



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**Ingestion:** If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting.

**Most Important Symptoms Effects:** Redness and itching or burning sensation may indicate eye or excessive skin exposure.

**Notes to a Physician:** This material, if aspirated into the lungs, may cause chemical pneumonitis; treat the affected person appropriately.

**5. Fire-Fighting Measures**

**Extinguishing Media:** Dry chemical, foam, carbon dioxide.

**Specific Methods:** Use water to cool fire-exposed containers, structures, and to protect personnel.  
Water may be an ineffective extinguishing medium.

**Specific Hazards:** Water or foam may cause frothing if the product is heated above 93 degrees C (200 degrees F).  
Empty container(s) may retain product residue -- solid, liquid, and/or vapor -- and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death.  
Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

**Protection of Firefighters:** Fire fighters should be equipped with NIOSH-approved, self-contained breathing apparatus (SCBA) and full protective clothing.

**6. Accidental Release Measures**

**Personal Precautions:** Avoid skin contact and inhalation of vapors during disposal of spills. Eliminate all sources of ignition or flammables that may come into contact with a spill of this material.  
Wear appropriate protective equipment and clothing during clean-up.

**Environmental Precautions:** Do not allow the spilled product to enter public drainage system or open water courses.  
Do not allow this material to drain into sewers/water supplies.

**Methods for Cleaning Up:** Dike the spilled material, where this is possible.  
Absorb the spilled material with an inert absorbent (nonflammable) material.



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**7. Handling and Storage**

**Handling:**

**Technical Measures:** Avoid the generation of oil mists.

**Precautions and Advice for Safe Handling:** Avoid breathing vapor or mist.  
Avoid contact with skin, eyes and clothing.  
Keep the container closed when not in use.  
Use with adequate ventilation.  
Wear protective equipment during handling.

**Storage: Technical Measures:** No special precautions.

**Storage Conditions:** Do not store near heat, spark or open flame.  
Keep the container tightly closed and in a cool, well-ventilated place.  
Store this product away from strong oxidizing agents.

**8. Exposure Controls/Personal Protection**

**Engineering Measures:** ENGINEERING CONTROL: Use adequate ventilation to control airborne concentrations below the exposure limits/guidelines. If user operations generate a vapor, dust, and/or mist, use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels below the recommended exposure limits/guidelines. Eyewash and emergency showers are recommended.

**Control Parameters:** If oil mist is generated, observe the OSHA exposure limit of 5 mg/m<sup>3</sup> (TWA) and the ACGIH exposure limit of 5 mg/m<sup>3</sup> (TWA) and the ACGIH short term exposure limit (STEL) of 10 mg/m<sup>3</sup>. Ford Motor Company recommends an exposure limit of 1.0 mg/m<sup>3</sup>.

**Personal Protective Equipment:**

**Respiratory Protection:** If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, an approved respirator must be worn. Respirator selection, use and maintenance should be in accordance with the requirements of OSHA Respiratory Protection Standard 29 CFR 1910.134 and/or Canadian Standard CSA Z94.4.

**Hand Protection:** Use impervious gloves.

**Eye Protection:** Wear safety glasses with side shields.  
Wear chemical goggles; face shield (if splashing is possible).

**Skin and Body Protection:** Remove contaminated clothing and wash before reuse.



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**Hygiene Measures:** Wash thoroughly after handling.

**9. Physical and Chemical Properties**

**Specific Gravity:** 0.91 H<sub>2</sub>O=1  
**Physical State:** LIQUID  
**Form:** OIL  
**Odor:** SLIGHT  
**Color:** DARK BROWN  
**pH:** N.AP  
**Temperature Range During which Changes in Physical State Occur:**  
     Boiling Point: >176.6 °C (>350F)  
**Flash Point:** 196 °C COC  
**Auto-ignition Temperature:** N.AV  
**Explosion Properties:**  
     UEL: N.AV  
     LEL: N.AV  
**Vapor Pressure:** N.AV  
**Vapor Density:** N.AV  
**Solubility:** INSOLUBLE IN WATER  
**Viscosity:** 199@40°C cSt  
**Evaporation Rate:** <1 (BuAc = 1)

**10. Stability and Reactivity**

**Stability:** This is a stable material.  
 Hazardous polymerization will not occur.

**Conditions and Materials to Avoid:** This product may react with oxidizing agents.  
 This product may react with strong acids.

**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, and other low molecular weight hydrocarbons.  
 Irritating and/or toxic fumes may be emitted upon the product's decomposition.



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**11. Toxicological Information**

**Inhalation:** Exposure to oil mist/fume/vapor may cause respiratory tract irritation.

**Skin Contact:** Prolonged and/or repeated skin contact with this product may cause irritation/dermatitis.  
Prolonged or repeated contact with this product may dry and/or defat the skin.

**Chronic (Long Term) Toxicity:** Base oil severely refined: Not carcinogenic in animal studies.  
Representative material passes IP-346, Modified Ames test, and/or other screening tests.

**12. Ecological Information**

No specific aquatic data available for this product.

**13. Disposal Considerations**

**Waste from Residues:** Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulation.

**Contaminated Packaging:** No consideration given when disposed of according to local, state, and Federal regulations.



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**14. Transport Information**

**U.S. Department of Transportation (DOT) 49 - CFR 172.101**

This product is not regulated as a dangerous good.

**Canadian Transportation of Dangerous Goods (T.D.G.) - TDGR Schedule II**

This product is not regulated as a dangerous good.

**Secretary of Communication and Transportation (SCT) - NOM-002-SCT2/1994 (Mexico)**

This product is not regulated as a dangerous good.

**International and Domestic Air Transportation - ICAO & IATA Section 4.2**

This product is not regulated as a dangerous good.

**International Water Transportation - IMDG Code Amendment 31-02**

This product is not regulated as a dangerous good.

**15. Regulatory Information**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Not a controlled product.

Don't pollute. Conserve resources. Return used oil to collection centers.

Material contains a chemical which is a Ford Motor Company Material of Concern. Use and release of this material should be minimized to the greatest extent possible.

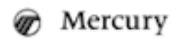
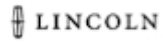
**16. Other Information**

Key/Legend: N.AP = Not applicable; N.AV = Not available; ND = Not determined or No data; TLV = Threshold limit value; TWA = Time-weighted average; STEL = Short-term exposure limit; C = Ceiling limit

**The following sections contain revisions OR** 2  
**NEW statements.** 15

**Preparation Information:**

The chemical identification and properties for this material were provided by the manufacturer. For Canadian locations, a manufacture's MSDS is available upon request. Health and safety information has been evaluated by the Occupational and Environmental Health Sciences Department, Ford Motor Company, Diagnostic Service Center II, 1800 Fairlane Drive, Allen Park, MI 48101, USA.



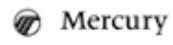
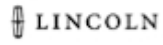
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**Disclaimer:**

The information on this data sheet represents our current data and is accurate to the best of our knowledge as to the proper handling of this product under normal conditions and in accordance with the application specified on the packaging and/or technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.



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**Attachment**

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<b>Product Code</b>	<b>Container Size</b>	<b>Part of Kit</b>	<b>Kit Product Code</b>
XY-90-GL	1 U.S. gal. (3.78 L)		

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