



Material Safety Data Sheet

Product Name: Additive Friction Modifier
FIR No. 135454
Version Number: US-US-3

Level: 2
Release Date: 2004-03-04

1. Product and Company Identification

Product Name: Additive Friction Modifier
Product Code: See Attachment
Application: For use on limited slip differentials to reduce hypoid gear noise.
Supplier: Ford Motor Company
Attention: MSDS Information, P.O. Box 1899
Dearborn, Michigan 48121
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.

Table with 4 columns: Chemical Name, CAS Number, Percent Concentration, Hazard Classification. Row 1: PETROLEUM DISTILLATES, HYDROTREATED HEAVY NAPHTHENIC, 64742-52-5, 50.4, HAZCOM

3. Hazards Identification

Health: No skin irritation can be expected from single short-term exposure to this product. Prolonged or repeated contact may produce some irritation. Inhalation of mist and vapors may irritate the nose, throat, and lungs.

4. First-Aid Measures

Inhalation: If inhalation of gas/fume/vapor/dust/mist from the material is excessive (air concentration is greater than the TLV or health effects are noticed), immediatly remove the affected person(s) to fresh air.

Skin Contact: For skin contact, wash immediately with soap and water.

Eye Contact: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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

Notes to a Physician: If the affected person's breathing is difficult, give oxygen.



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**5. Fire-Fighting Measures**

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

**Specific Methods:** Water may be used to cool exposed containers to prevent pressure build-up and explosion when exposed to extreme heat.

**Specific Hazards:** Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

**Protection of Firefighters:** Wear self-contained breathing apparatus.

**6. Accidental Release Measures**

**Personal Precautions:** Surfaces may become slippery after spillage.

**Environmental Precautions:** Do not allow the spilled product to enter public drainage system or open water courses.

**Methods for Cleaning Up:** Attempt to reclaim the free product, if this is possible. Absorb the spilled material with an inert absorbent (nonflammable) material. Thoroughly wash the area after a spill or leak clean-up. In case of large spills, follow all facility Emergency Response Procedures.

**7. Handling and Storage**

**Handling:**

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

**Precautions and Advice for Safe Handling:** Use this product with adequate ventilation.

**Storage:**

**Technical Measures:** Do not reuse the empty container.

**Storage Conditions:** Store this product away from strong oxidizing agents. Store this product away from acids. Store in a cool, well-ventilated area away from sources of heat.



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**8. Exposure Controls/Personal Protection**

**Engineering Measures:**

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.

**Personal Protective Equipment:**

**Respiratory Protection:**

When respiratory protection is determined to be necessary, use a NIOSH (or Canadian Z94.4) approved elastomeric sealing surface facepiece respirator outfitted with organic vapor cartridges and paint spray (dust/mist) prefilters. Consult 29 CFR1910.134 for selection of respirator in U.S. For Canadian standard see CSA Z94.4

**Hand Protection:**

Wear rubber gloves.

**Eye Protection:**

Wear safety glasses with side shields.

**Skin and Body Protection:**

Wash thoroughly after handling.

**Hygiene Measures:**

Wash clothing separately and rinse washing machine afterwards. Remove contaminated clothing and wash the skin thoroughly with soap and water after work.

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**9. Physical and Chemical Properties**

**Specific Gravity:** 0.92 H<sub>2</sub>O=1, 15.6°C  
**Physical State:** LIQUID  
**Form:** LIQUID  
**Odor:** PETROLEUM  
**Color:** BLUE  
**pH:** ND  
**Temperature Range which changes in Physical State occur:**  
**Flash Point:** +177.2 °C  
**Auto-ignition Temperature:** N.AV  
**Explosion Properties:**  
     **UEL:** N.AV  
     **LEL:** N.AV  
**Vapor Pressure:** N.AV  
**Vapor Density:** N.AV  
**Solubility:** NEGLIGIBLE IN WATER  
**Viscosity:** 8.8@100°C CST  
**Evaporation Rate:** N.AV

**10. Stability and Reactivity**

**Stability:** Hazardous polymerization will not occur.  
**Condition and materials to avoid:** This product may react with strong oxidizing agents (bleach--sodium hypochlorite, calcium hypochlorite, hydrogen peroxide, permanganate, nitric acid, concentrated OXYGEN, perchlorates). This product may react with strong acids.  
**Hazardous Decomposition Products:** Irritating and toxic gases or fumes may be released during a fire.

**11. Toxicological Information**

**Inhalation:** No further toxicological data known  
**Eye Contact:** No further toxicological data known  
**Ingestion:** No further toxicological data known



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**12. Ecological Information**

Ecological testing has not been conducted on this product.

**13. Disposal Considerations**

**Waste from Residues:**

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulation.

**Contaminated Packaging:**

No available information.



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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 contains NONE of the 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  
The components of this product are listed on the TSCA Inventory

**16. Other Information**

Petroleum distillate base oils used in the product are severely hydrotreated and/or solvent refined.  
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

**Preparation Information:**

The chemical identification and properties for this material were provided by the manufacturer. For Canadian locations, a manufacturer's MSDS is available upon request. Health and safety information has been evaluated by the Occupational and Environmental Health Sciences Department, Ford Motor Company, Central Laboratory Building - Room S-120, 15000 Century Drive, Dearborn, MI 48120

**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**

<b>Product Code</b>	<b>Container Size</b>	<b>Part of Kit</b>	<b>Kit Product Code</b>
C8AZ-19B546-A (Inactive)	4 fl oz		
XL-3	4 fl oz		