



LINCOLN



Mercury

Motorcraft

Rotunda

Material Safety Data Sheet

FIR No.: 135454
Version Number: US-US-5

Level: 3
Release Date: 2007-06-18

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.

PETROLEUM DISTILLATES, HYDROTREATED HEAVY NAPHTHENIC	64742-52-5	30-60	HAZCOM RSMS_P_SOM
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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. Prolonged and/or repeated skin contact with this product may cause irritation/dermatitis.
 Harmful if swallowed. Ingestion is not an expected route of entry in industrial or commercial uses

4. First-Aid Measures

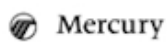
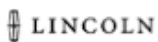
Inhalation: If inhalation of gas/fume/vapor/dust/mist from the material is excessive (air concentration is greater than the TLV or health effects are noticed), immediatly remove the affected person(s) to fresh air.

Skin Contact: Immediately take off all contaminated clothing.
 For skin contact, wash immediately 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.

Ingestion: If the material is swallowed, do not induce vomiting. Get immediate medical attention or advice -- give several glasses of water or milk.

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. Irritating and/or toxic fumes and gases may be emitted upon heating of this product.

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: Provide adequate ventilation.
 Surfaces may become slippery after spillage.
 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.

Methods for Cleaning Up: Dike the spilled material, where this is possible.
 Absorb the spilled material with an inert absorbent (nonflammable) material.
 In case of large spills, follow all facility Emergency Response Procedures.

7. Handling and Storage

Handling:

Technical Measures: Avoid the generation of oil mists.
 Keep this product from heat, sparks, or open flame.

Precautions and Advice for Safe Handling: Avoid contact with skin, eyes and clothing.
 Use with adequate ventilation.
 Keep the container closed when not in use.

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

Storage Conditions: Store this product away from acids.
 Store this product away from strong oxidizing agents.
 Store this product in a cool, dry, well-ventilated place.



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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:

Use of impervious gloves is required, such as neoprene or nitrile rubber gloves.

Eye Protection:

Wear safety glasses with side shields.

Skin and Body Protection:

Wash thoroughly after handling.

Hygiene Measures:

Remove contaminated clothing and wash the skin thoroughly with soap and water after work.
Wash clothing separately and rinse washing machine afterwards.
When using this material, do not eat, drink or smoke.



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9. Physical and Chemical Properties

Specific Gravity:	0.91
Physical State:	LIQUID
Form:	LIQUID
Odor:	MILD
Color:	BLUE
pH:	N.AP
Temperature Range During which Changes in Physical State Occur:	
Flash Point:	178 °C ASTM D93
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:	13 cSt ASTM D445
Evaporation Rate:	N.AV

10. Stability and Reactivity

Stability:	Hazardous polymerization will not occur.
Conditions 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.



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11. Toxicological Information

3658-48-8 DIISOOCTYL PHOSPHITE
Oral, adult rat, LD50 = 11900 mg/kg
3658-48-8 DIISOOCTYL PHOSPHITE
Skin, adult rabbit, LD50 = 4500 mg/kg

Inhalation: No further toxicological data known

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

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

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 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 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

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

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

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

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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, National Parts General Office, MD74, 29500 Plymouth Road, Livonia, MI 48150, 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

Product Code	Container Size	Part of Kit	Kit Product Code
C8AZ-19B546-A (Obsolete)	4 fl. oz.		
CM-19546-A1	3.8 fl. oz. (114 mL)		
XL-3	4 fl. oz.		