Material Safety Data Sheet

FIR No.: 174332 **Level:** 1
Version Number: CA-EN-6 **Release Date:** 2010-07-28

1. Product and Company Identification

Product Name: High Temperature Nickel Anti-Seize Lubricant
Product Code: See Attachment
Application: Anti-seize 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
PETROLEUM DISTILLATES, HYDROTREATED HEAVY NAPHTHENIC	64742-52-5	60-100	HAZCOM RSMS_D_ALL RSMS_P_SOM
NICKEL	7440-02-0	10-30	LOCAL REV 1 MAN-ENV_REV IARC HAZCOM CAA-HAP RSMS_METALS WHMIS 0.1 SARA 313
GRAPHITE	7782-42-5	10-30	ACGIH/OSHA HAZCOM PEL/TLV-US
ALUMINUM	7429-90-5	1-5	HAZCOM SARA 313 WHMIS 1
DISTILLATES (PETROLEUM), STRAIGHT-RUN MIDDLE	64741-44-2	0.1-1	HAZCOM

3. Hazards Identification

Health: May cause skin and eye 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.
Prolonged or repeated contact with this product may dry and/or defat the skin.

Environment: Material contains a chemical which is a Hazardous Air Pollutant (HAP), regulated by the United States Clean Air Act.

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.

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

Most Important Symptoms Effects: Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Notes to a Physician: If the affected person's breathing is difficult, give oxygen.
If the affected person is not breathing, apply artificial respiration.

5. Fire-Fighting Measures

Extinguishing Media: Dry chemical, foam, carbon dioxide.

Specific Methods: Water may be an ineffective extinguishing medium.

Specific Hazards: Due to pressure buildup, closed containers exposed to excess heat may explode.
This product may emit toxic/irritating fumes or gases upon heating to high temperatures.
Upon decomposition, this product emits aldehydes.
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 inhalation of vapors and contact with skin and eyes.
Eliminate all sources of ignition or flammables that may come into contact with a spill of this material.
Ventilate the contaminated area.

Environmental Precautions: No available information.

Methods for Cleaning Up: Absorb the spilled material with an inert absorbent (nonflammable) material.
Scrape up the spilled material and transfer to a suitable container for disposal.

7. Handling and Storage

Handling:

Technical Measures: No special precautions necessary.

Precautions and Advice for Safe Handling: Avoid breathing vapor or mist.
Avoid contact with skin, eyes and clothing.
Keep away from heat, spark and open flame.

Storage:

Technical Measures: No special precautions necessary.

Storage Conditions: Do not expose to heat or store at temperatures above 49°C (120°F).
Store in a cool, well-ventilated area away from sources of heat.

Material Safety Data Sheet

FIR No.: 174332 **Level:** 1
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8. Exposure Controls/Personal Protection

Engineering Measures:

General (mechanical) room ventilation is expected to be satisfactory if handled at low temperatures or in covered equipment. Local ventilation is needed in the presence of airborne mists.

Control Parameters:

If oil mist is generated, observe the OSHA exposure limit of 5 mg/m3 (TWA) and the ACGIH exposure limit of 5 mg/m3 (TWA) and the ACGIH short term exposure limit (STEL) of 10 mg/m3. Ford Motor Company recommends an exposure limit of 1.0 mg/m3.

Exposure Limits:

Chemical Name	TWA	References	Notes
ALUMINUM	Note	ACGIH	metal dust, as Al: 10 mg/m3 TWA; pyro powders, as Al: 5 mg/m3 TWA; welding fumes, as Al: 5 mg/m3; soluble salts and Alkyl (NOS), as Al: 2 mg/m3
NICKEL	Note	ACGIH	Elemental 1.5 mg/m3 (I); soluble inorganic compounds (NOS) 0.1 mg/m3 (I); insoulube inorganic compounds (NOS) 0.2 mg/m3 (I)
GRAPHITE	Note	ACGIH	all forms except grahpite fibers, respirable dust: 2 mg/m3 TWA

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:	The use of neoprene gloves is recommended. The use of nitrile-latex gloves is recommended.
Eye Protection:	Wear safety glasses with side shields.
Skin and Body Protection:	Remove contaminated clothing and wash before reuse.
Hygiene Measures:	Use good personal hygiene.

9. Physical and Chemical Properties

Specific Gravity:	1.1
Physical State:	PASTE
Odor:	PETROLEUM
Color:	GRAY
pH:	N.AP
Temperature Range During which Changes in Physical State Occur:	
Flash Point:	>93 °C ASTM D56
Explosion Properties:	
UEL:	N.AV
LEL:	N.AV
Vapor Density:	>1 (AIR=1)
Solubility:	NEGLIGIBLE IN WATER
Viscosity:	800000@40°C cSt BROOKFIELD
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 strong oxidizing agents (bleach--sodium hypochlorite, calcium hypochlorite, hydrogen peroxide, permanganate, nitric acid, concentrated OXYGEN, perchlorates).

Hazardous Decomposition Products:
Carbon monoxide, carbon dioxide, and other low molecular weight hydrocarbons.
Decomposition of this product may emit oxides of sulfur.
Decomposition of this product may yield metallic oxides.
Irritating and/or toxic fumes may be emitted upon the product's decomposition.

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.

Chronic (Long Term) Toxicity:
This material contains an ingredient which is a cancer hazard based on tests with laboratory animals. Overexposure may create a cancer risk.
Base oil severely refined: Not carcinogenic in animal studies.
Representative material passes IP-346, Modified Ames test, and/or other screening tests.
Graphite in the product may cause graphite pneumoconiosis that result from exposure to natural graphite dust. Symptoms may include headache, cough, dyspnea, black sputum, decreased pulmonary function, and lung fibrosis; pleural thickening, pneumothorax, and hydrothorax may occur.
NICKEL: Long term overexposure to NICKEL compounds may cause lung fibrosis or pneumoconiosis. Studies of NICKEL refinery workers indicated a higher incidence of lung and nasal cancers. NICKEL and its compounds are required to be considered as Carcinogenic by OSHA, although the International Agency for Research on Cancer (IARC) states that specific NICKEL compounds that may be carcinogenic to humans cannot be identified.

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.

Material Safety Data Sheet

FIR No.:	174332	**Level:**	1
Version Number:	CA-EN-6	**Release Date:**	2010-07-28

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.
CLASS D DIVISION 2 SUBDIVISION A: Poisonous/Infectious Material Causing Other Toxic Effects - Very Toxic Material
CLASS D DIVISION 2 SUBDIVISION B: Poisonous/Infectious Material Causing Other Toxic Effects - Toxic Material
This product contains an ingredient present on the WHMIS (0.1%) Ingredient Disclosure List.
This product contains an ingredient present on the WHMIS (1.0%) Ingredient Disclosure List.
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 NEW statements.	2 15 16 8
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.

Material Safety Data Sheet

FIR No.: 174332 **Level:** 1
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Attachment

Product Code	Container Size	Part of Kit	Kit Product Code
XL-2	8 oz. (227 g)		