



Material Safety Data Sheet

FIR No.: 003751
Version Number: US-US-7

Level: 1
Release Date: 2013-09-16

1. Product and Company Identification

Product Name: Threadlock and Sealer
Product Code: See Attachment
Application: Medium strength (blue) threadlocker
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.

Chemical Name	CAS Number	Percent Concentration	Hazard Classification
CUMENE HYDROPEROXIDE	80-15-9	1-5	SARA 313 WHMIS 1 RSMS_D_ALL RQ DSL LISTED
1,2-PROPYLENE GLYCOL	57-55-6	0.1-1	WHMIS 1 RSMS_D_ALL DSL LISTED
TITANIUM DIOXIDE	13463-67-7	0.1-1	IARC 2B (NA) RSMS_D_ALL PEL/TLV-US DSL LISTED ACGIH/OSHA

3. Hazards Identification

CAUTION

Health: This product may cause irritation to the eyes, respiratory system, and skin.
 This product may cause severe eye irritation.
 This product may cause an allergic skin reaction.
 This product may cause sensitization by inhalation and skin contact.
 Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.
 This product may be absorbed through the skin in harmful amounts.
 Overexposure may cause central nervous system depression.

Physical and Chemical Hazards: This product is not combustible.



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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: 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, get immediate medical attention or advice -- Do not induce vomiting.

5. Fire-Fighting Measures

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

Specific Methods: Use water to cool fire-exposed containers, structures, and to protect personnel.

Specific Hazards: Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition. Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Due to pressure buildup, closed containers exposed to excess heat may explode.

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. Avoid skin contact with the spilled material. Provide adequate ventilation. Wear appropriate protective equipment and clothing during clean-up.

Environmental Precautions: No available information.

Methods for Cleaning Up: Absorb the spilled material with an inert absorbent (nonflammable) material.



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7. Handling and Storage

Handling:

Technical Measures: Provide ventilation to control vapor exposure within inhalation guidelines when handling at elevated temperatures.

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

Storage: Technical Measures: No special precautions.

Storage Conditions: Store this product in a cool, dry, well-ventilated place.

8. Exposure Controls/Personal Protection

Engineering Measures: Use general ventilation. Local exhaust is suggested for use, where possible, in enclosed or confined spaces.

Exposure Limits:

Table with 3 columns: Chemical Name, TWA, and References. Row 1: TITANIUM DIOXIDE, 10(mg/m3), ACGIH. Row 2: 15(mg/m3), OSHA.

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 gloves is recommended.

Eye Protection: Wear safety glasses with side shields.

Skin and Body Protection: Wear protective clothing sufficient to cover exposed skin surfaces.

Hygiene Measures: Use good personal hygiene. When using this material, do not eat, drink or smoke.



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9. Physical and Chemical Properties

Specific Gravity: 1-1.15 H₂O=1 @4°C
Physical State: LIQUID
Odor: MILD
Color: BLUE
pH: N.AP

Temperature Range During which Changes in Physical State Occur:

Boiling Point: >148.89 °C
Freezing Point: N.AV
Melting Point: N.AP

Flash Point: >93 °C ASTM D93

Auto-ignition Temperature: N.AV

Explosion Properties:

UEL: ND
LEL: ND

Vapor Pressure: ND

Vapor Density: >1 (AIR=1)

Solubility: INSOLUBLE IN WATER

Viscosity: N.AP

Evaporation Rate: ND

10. Stability and Reactivity

Stability: Stable at ambient and moderately elevated temperatures and pressures.
 Hazardous polymerization can 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 reducing agents.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, and other low molecular weight hydrocarbons.



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11. Toxicological Information

80-15-9 CUMENE HYDROPEROXIDE
Oral, adult rat, LD50 = 382 mg/kg
80-15-9 CUMENE HYDROPEROXIDE
Inhalation, adult rat, LC50 = 220 ppm (4 Hours)
80-15-9 CUMENE HYDROPEROXIDE
Skin, adult rat, LD50 = 500 mg/kg

Inhalation: Excessive inhalation of this material causes headache, dizziness, nausea and incoordination.

Skin Contact: Prolonged and/or repeated skin contact with this product may cause irritation/dermatitis.
The skin sensitization potential of this product has not been fully assessed, assume that contact with the skin may cause allergic contact dermatitis. Risks are higher where prolonged or repeated skin contact with a fluid may occur.

Eye Contact: Produces irritation to eyes, characterized by a burning sensation, redness, tearing, inflammation, and possible corneal injury.

Chronic (Long Term) Toxicity: In a two year study, IARC indicates that lung tumors were observed in rats that had inhaled TITANIUM DIOXIDE dust at 250 mg/m³. This level is 25 times the current occupational exposure level (10 mg/m³) and is not expected to be attainable in the workplace.
This product contains TITANIUM DIOXIDE. Animals inhaling massive quantities of TITANIUM DIOXIDE dust in a long term study developed lung tumors. Studies with humans involved in the manufacture of this pigment indicate no increased risk of cancer from exposure. Potential for inhalation of TITANIUM DIOXIDE dusts from coatings is very limited. Since overexposures are not expected, there is no significant hazard for man.

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

The components of this product are listed on the TSCA Inventory

This product contains a toxic chemical or chemicals 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 above indicated hazardous ingredients (substances) are defined as hazardous by the Pennsylvania Worker and Community Right to Know Act.

This product contains an ingredient(s) considered to be a "toxic or hazardous substance" by the Commonwealth of Massachusetts (Massachusetts Right to Know Law).

This product contains an ingredient(s) considered to be an environmental hazardous substance(s) by the State of New Jersey.

This product contains an ingredients(s) considered to be a hazardous substance(s) by the State of New Jersey.

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

HMIS and NFPA Hazard Class Information:

HMIS Hazard Class: Health: 2 (Moderate) Flammability: 1 (Slight) Physical Hazard: 0 (Least)

NFPA Hazard Class: Health: 2 (Moderate) Flammability: 1 (Slight) Instability: 0 (Least)



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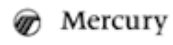
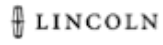
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The following sections contain revisions OR
NEW statements.

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Preparation Information: The chemical identification and properties for this material were provided by the manufacturer. 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.

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
TA-25	0.2 fl. oz. (6 mL)		
