



Material Safety Data Sheet

FIR No.: 045361
Version Number: US-US-2

Level: 1
Release Date: 2005-10-06

1. Product and Company Identification

Product Name: Pressurized Fuel Injector Cleaner
Product Code: See Attachment
Application: Fuel Injector Cleaner
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
NAPHTHA (PETROLEUM), LIGHT ALKYLATE	64741-66-8	30-60	HAZCOM RSMS_D_ALL
PETROLEUM NAPHTHA, LIGHT AROMATIC	64742-95-6	10-30	HAZCOM RSMS_D_ALL
METHYLISOBUTYL CARBINOL	108-11-2	5-10	HAZCOM WHMIS 1
ETHYLENE GLYCOL MONOBUTYL ETHER	111-76-2	1-5	CAA-HAP HAZCOM MOC-ALL SARA 313 WHMIS 1
OLEIC ACID	112-80-1	1-5	WHMIS 1
AMMONIUM HYDROXIDE	1336-21-6	1-5	HAZCOM RQ RSMS_D_ALL SARA 313 WHMIS 1
PETROLEUM DISTILLATES, HYDROTREATED HEAVY NAPHTHENIC	64742-52-5	1-5	HAZCOM RSMS_P_SOM



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3. Hazards Identification

FLAMMABLE

Health: This product is irritating to the eyes, respiratory system and skin. This product is harmful by inhalation, when in contact with the skin and if it is swallowed. This product may be fatal if it is swallowed. This product may be harmful or toxic by skin absorption. Overexposure may cause central nervous system, kidney and liver effects.

Physical and Chemical Hazards: Contents under pressure. Extremely flammable aerosol. May cause flash fire.

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.

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.

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

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, 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: Empty containers may retain product residue including Flammable or Explosive vapors. Do not cut, drill, grind, or weld near full, partially full, or empty product containers. Fire and Explosion hazards are DANGEROUS when this material is exposed to heat or flame. Pressurized Container: May explode when exposed to heat or flame. Sprayed product will project a flame on contact with an ignition source. Vapors are heavier than air and may travel along the ground to some distant source of ignition and flash back.



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Protection of Firefighters: Wear self-contained breathing apparatus.

6. Accidental Release Measures

Personal Precautions: Avoid inhalation of vapor, fumes, dust and/or mist from the spilled material.
Avoid skin contact with the spilled material.
Eliminate all sources of ignition or flammables that may come into contact with a spill of this material.
Ventilate the contaminated area.
Wear appropriate protective equipment and clothing during clean-up.

Environmental Precautions: Do not allow this material to drain into sewers/water supplies.

Methods for Cleaning Up: Contain the discharged material.
Recover liquids by pumping (use an explosion proof or hand pump if recovering flammable liquids).
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: Do not allow the product to freeze.
Keep this product from heat, sparks, or open flame.

Precautions and Advice for Safe Handling: Use with adequate ventilation.
Avoid breathing vapor or mist.
Avoid contact with skin, eyes and clothing.
Wear protective equipment during handling.
Do not puncture or incinerate container.

Storage:

Technical Measures: Eliminate all sources of ignition.

Storage Conditions: Storage temperatures should not exceed 40 C.
Store this product in a cool, dry, well-ventilated place.
Keep away from children.



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8. Exposure Controls/Personal Protection

Engineering Measures: Eyewash and emergency showers are recommended.
 Local exhaust is suggested for use, where possible, in enclosed or confined spaces.

Exposure Limits:

Chemical Name	TWA 8 hr	STEL/C	References	Notes
METHYLISOBUTYL CARBINOL	25(ppm)	40(ppm)	ACGIH	
ETHYLENE GLYCOL MONOBUTYL ETHER	25(ppm) 20(ppm) 50(ppm)	100(ppm) 240(ppm)	OSHA ACGIH OSHA	

Personal Protective Equipment:

Hand Protection: The use of nitrile-latex gloves is recommended.
 The use of neoprene gloves is recommended.

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

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

Hygiene Measures: Wash thoroughly after handling.
 When using this material, do not eat, drink or smoke.



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9. Physical and Chemical Properties

Specific Gravity: 0.78-0.84 H2O=1
Physical State: AEROSOL
Odor: N.AV
Color: YELLOW
pH: N.AP N.AP
Temperature Range During which Changes in Physical State Occur:
Boiling Point: N.AV
Flash Point: 9 °C TCC
Auto-ignition Temperature: N.AV
Explosion Properties:
UEL: N.AV
LEL: N.AV
Vapor Pressure: N.AV
Vapor Density: >1 (AIR=1)
Solubility: SLIGHT IN WATER
Viscosity: N.AV
Evaporation Rate: N.AV

10. Stability and Reactivity

Stability: Hazardous polymerization will not occur.
This is a stable material.
Conditions and Materials to Avoid: This product can react explosively at high temperatures or pressure.
This product may react with strong oxidizing agents (bleach--sodium hypochlorite, calcium hypochlorite, hydrogen peroxide, permanganate, nitric acid, concentrated OXYGEN, perchlorates).
Static discharge, friction, sparks, open flames, heat and other sources of ignition.
Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, and other low molecular weight hydrocarbons.
Decomposition of this product may yield oxides of phosphorus.
Decomposition of this product may yield oxides of sulfur and nitrogen.



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11. Toxicological Information

- 111-76-2 ETHYLENE GLYCOL MONOBUTYL ETHER
Inhalation, adult rat, LC50 = 450 ppm (4 Hours)
- 108-11-2 METHYLISOBUTYL CARBINOL
Oral, adult rat, LD50 = 2590 mg/kg
- 1336-21-6 AMMONIUM HYDROXIDE
Oral, adult rat, LD50 = 350 mg/kg
- 111-76-2 ETHYLENE GLYCOL MONOBUTYL ETHER
Oral, adult rat, LD50 = 530 mg/kg
- 112-80-1 OLEIC ACID
Oral, adult rat, LD50 = 74 gm/kg
- 111-76-2 ETHYLENE GLYCOL MONOBUTYL ETHER
Skin, adult guinea pig, LD50 = 230 mg/kg
- 108-11-2 METHYLISOBUTYL CARBINOL
Skin, adult rabbit, LD50 = 3560 mg/kg

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

Chronic (Long Term) Toxicity: Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. This product contains no ingredients that are reported to be carcinogenic by any reference source including IARC, OSHA, NTP, ACGIH and EPA.

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 available information.



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14. Transport Information

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

Proper Shipping Name: CONSUMER COMMODITY
Hazard Class / Division: ORM-D
Reportable Quantity (per packaging):

CAS	RQ	Name
1336-21-6	66667	AMMONIUM HYDROXIDE

Comment: Marine Pollutant.

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

Proper Shipping Name: AEROSOLS
UN Number: UN1950
Hazard Class / Division: 2.1
Packing Group:

Label: FLAMMABLE GAS

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

Proper Shipping Name: AEROSOLS
UN Number: UN1950
Hazard Class/Division: 2.1
Label: FLAMMABLE GAS

International and Domestic Air Transportation - ICAO & IATA Section 4.2

Proper Shipping Name: Aerosols, flammable
UN Number: UN1950
Hazard Class/Division: 2.1
Label: FLAMMABLE GAS

International Water Transportation - IMDG Code Amendment 31-02

Proper Shipping Name: Aerosols
UN Number: UN1950
Hazard Class/Division: 2.1
Ems Number: 2-13
Label: FLAMMABLE GAS

15. Regulatory Information



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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.

This product contains an ingredient(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

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 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.

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.



Mercury

Motorcraft

Rotunda

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Attachment

Product Code	Container Size	Part of Kit	Kit Product Code
CM-1001	10 oz. (284 g)		