



**Material Safety Data Sheet**

**FIR No.:** 134216  
**Version Number:** US-US-1

**Level:** 1  
**Release Date:** 2004-02-27

**1. Product and Company Identification**

**Product Name:** Metal Surface Cleaner  
**Product Code:** See Attachment  
**Application:** Metal Surface 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
D-LIMONENE	5989-27-5	>60	RSMSREST WHMIS 1
MYRCENE	123-35-3	.1-<1	WHMIS 0.1

**3. Hazards Identification**

COMBUSTIBLE

**Health:** This product may cause severe eye irritation.  
 Aspiration hazard if swallowed; can enter lungs and cause damage.  
 If ingested, this product may cause gastrointestinal irritation.  
 Ingestion of this product may cause nausea, vomiting and diarrhea.  
 This product may cause an allergic skin reaction.  
 Overexposure may cause central nervous system depression.

**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 and seek medical advice.

**Ingestion:** If the material is swallowed, get immediate medical attention or advice.



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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.

Specific Hazards: Fire and explosion hazards are moderate when this product is exposed to heat or flame. Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

6. Accidental Release Measures

Personal Precautions: Avoid excessive skin contact with the spilled material. Eliminate all sources of ignition or flammables that may come into contact with a spill of this material. 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: Absorb the spilled material with an inert absorbent (nonflammable) material.

7. Handling and Storage

Handling:

Technical Measures: Keep this product from heat, sparks, or open flame.

Precautions and Advice for Safe Handling: Avoid getting this material into contact with your eyes. Avoid prolonged or repeated breathing of this material. Avoid prolonged or repeated skin contact with this material. Keep the container closed when not in use. Use this product with adequate ventilation.

Storage:

Technical Measures: No special precautions.

Storage Conditions: Store this product in air-tight containers away from sources of heat and light.



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**8. Exposure Controls/Personal Protection**

**Engineering Measures:** Eyewash and emergency showers are recommended.  
Ventilation is not normally required.  
Local exhaust is suggested for use, where possible, in enclosed or confined spaces.

**Personal Protective Equipment:**

**Hand Protection:** Use impervious gloves.

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

**Skin and Body Protection:** Use of an impervious apron is recommended.  
When shoes become contaminated with this product, they must be destroyed.

**9. Physical and Chemical Properties**

**Specific Gravity:** 0.844  
**Physical State:** LIQUID  
**Odor:** CITRUS  
**Color:** COLORLESS  
**pH:** N.AV  
**Temperature Range During which Changes in Physical State Occur:**  
Boiling Point: +178 °C  
Melting Point: N.AV  
**Flash Point:** +50 °C TCC  
**Auto-ignition Temperature:** +238 °C  
**Explosion Properties:**  
UEL: N.AV  
LEL: N.AV  
**Vapor Pressure:** 1@20C mmHg  
**Vapor Density:** 4.7 (AIR=1)  
**Solubility:** ND  
**Viscosity:** N.AV  
**Evaporation Rate:** N.AV



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**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 acids.  
This product may react with strong alkalis.

**Hazardous Decomposition Products:** Irritating and toxic gases or fumes may be released during a fire.

**11. Toxicological Information**

5989-27-5 D-LIMONENE  
Oral, adult rat, LD50 = 4400 mg/kg

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

**Skin Contact:** No skin irritation can be expected from single short-term exposure to this product. Prolonged or repeated contact may produce some irritation.

**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

Proper Shipping Name: Terpene hydrocarbons, n.o.s.
UN Number: UN2319
Hazard Class / Division: 3
Packing Group: III
Regulated Quantity: Bulk Non-Bulk Limited Quantity
X X

Label: FLAMMABLE LIQUID

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

Proper Shipping Name: Terpene hydrocarbons, n.o.s. (D-LIMONENE,D-LIMONENE)
UN Number: UN2319
Hazard Class / Division: 3
Packing Group: III
Regulated Quantity: Bulk Non-Bulk Limited Quantity
X X

Label: FLAMMABLE LIQUID

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

Proper Shipping Name: HIDROCARBUROS TERPENICOS, N.E.P.
UN Number: UN2319
Hazard Class/Division: 3
Packing Group: III
Label: FLAMMABLE LIQUID

International and Domestic Air Transportation - ICAO & IATA Section 4.2

Proper Shipping Name: Terpene hydrocarbons, n.o.s.
UN Number: UN2319
Hazard Class/Division: 3
Packing Group: III
Label: FLAMMABLE LIQUID



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International Water Transportation - IMDG Code Amendment 31-02

Proper Shipping Name: Terpene hydrocarbons, n.o.s.  
UN Number: UN2319  
Hazard Class/Division: 3  
Flashpoint: +50 °C TCC  
Packing Group: III  
Ems Number: 3-07  
Label: FLAMMABLE LIQUID

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  
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

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.



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**Attachment**

<b>Product Code</b>	<b>Container Size</b>	<b>Part of Kit</b>	<b>Kit Product Code</b>
ZC-21	16 fl. oz. (473 mL)		