

Material Safety Data Sheet

FIR No.: 002638
Version Number: US-US-3

Level: 1
Release Date: 2010-07-28

1. Product and Company Identification

Product Name: Custom Bright Metal Cleaner
Product Code: See Attachment
Application: Polish for use on bright metal surfaces
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
QUARTZ (CRYSTALLINE SILICA)	14808-60-7	10-30	ACGIH/OSHA HAZCOM IARC 1,2A PEL/TLV-US WHMIS 1 TLV A2 RSMS_P_SOM RSMS_D_ALL
ETHYL ALCOHOL	64-17-5	1-5	WHMIS 0.1 RSMS_D_ALL PEL/TLV-US ACGIH/OSHA HAZCOM
OXALIC ACID	144-62-7	1-5	WHMIS 0.1 ACGIH/OSHA HAZCOM PEL/TLV-US
AMMONIUM HYDROXIDE	1336-21-6	1-5	SARA 313 HAZCOM RQ RSMS_D_ALL WHMIS 1



Material Safety Data Sheet

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Version Number: US-US-3

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3. Hazards Identification

COMBUSTIBLE

Health: May cause skin, eye and respiratory tract irritation. Inhalation of mist and vapors may irritate the nose, throat, and lungs. Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Prolonged or repeated contact with this product may dry and/or defat the skin. Harmful if swallowed. Ingestion is not an expected route of entry in industrial or commercial uses

Physical and Chemical Hazards: Combustible liquid.

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: 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 Methods: Water may be used to cool exposed containers to prevent pressure build-up and explosion when exposed to extreme heat.

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.



Material Safety Data Sheet

FIR No.: 002638
Version Number: US-US-3

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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.
Ventilate the contaminated area.
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.
Do not allow this material to drain into sewers/water supplies.

Methods for Cleaning Up: Contain the discharged material.
Absorb the spilled material and scrape it up.

7. Handling and Storage

Handling:

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

Precautions and Advice for Safe Handling: Do not get this material in your eyes, on your skin, or on your clothing.

Storage: Technical Measures: Eliminate all sources of ignition.

Storage Conditions: Store in a cool, well-ventilated area away from sources of heat.
Keep away from children.

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FIR No.: 002638
Version Number: US-US-3

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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.

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	STEL/C	References	Notes
ETHYL ALCOHOL	1000(ppm)		ACGIH	
OXALIC ACID	1000(ppm) 1(mg/m ³)	1900(ppm)	OSHA ACGIH	
QUARTZ (CRYSTALLINE SILICA)	Note	1(ppm)	OSHA ACGIH	0.025 mg/m ³ TWA (respirable fraction)
	Note		OSHA	((250)/(%SiO ₂ + 5) mppcf TWA (respirable)); ((10)/(%SiO ₂ + 2) mg/m ³ TWA (respirable)); ((30)/(%SiO ₂ + 2) mg/m ³ TWA (total dust))

Personal Protective Equipment:

Respiratory Protection: None required under normal conditions. 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: Wear rubber gloves.

Eye Protection: Wear safety glasses with side shields.

Skin and Body Protection: Wear protective clothing sufficient to cover exposed skin surfaces. Remove contaminated clothing and wash before reuse.

Material Safety Data Sheet

FIR No.: 002638
Version Number: US-US-3

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

9. Physical and Chemical Properties

Specific Gravity: 1.16-1.18 H₂O=1 @20°C
Physical State: LIQUID
Odor: AMMONIA
Color: LIGHT TAN
pH: 9.0 1% V/V ASTM D1293
Temperature Range During which Changes in Physical State Occur:
 Boiling Point: +100.278 °C (212.5°F)
 Melting Point: 0.2 °C (32.5°F)
Flash Point: 51.1 °C ASTM D93
Explosion Properties:
 UEL: N.AV
 LEL: N.AV
Vapor Pressure: ND
Vapor Density: ND
Solubility: ND
Viscosity: 1200 cP
Evaporation Rate: ND

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: No data available.



Material Safety Data Sheet

FIR No.: 002638
Version Number: US-US-3

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11. Toxicological Information

- 64-17-5 ETHYL ALCOHOL
Inhalation, adult rat, LC50 = 20000 ppm (10 Hours)
- 64-17-5 ETHYL ALCOHOL
Oral, adult rat, LD50 = 7060 mg/kg
- 144-62-7 OXALIC ACID
Oral, adult rat, LD50 = 375 mg/kg
- 1336-21-6 AMMONIUM HYDROXIDE
Oral, adult rat, LD50 = 350 mg/kg
- 67-64-1 ACETONE
Skin, adult rabbit, LD50 = 20 gm/kg
- 144-62-7 OXALIC ACID
Skin, adult rabbit, LD50 = 20 gm/kg

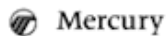
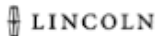
- Inhalation:** Excessive inhalation of this material causes headache, dizziness, nausea and incoordination.
- Skin Contact:** Prolonged or repeated contact with this product may dry and/or defat the skin.
- Chronic (Long Term) Toxicity:** Methanol has produced fetotoxicity in rats and teratogenicity in mice exposed by inhalation to high concentrations that did not produce significant maternal toxicity.

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: Flammable liquids, n.o.s. (ETHYL ALCOHOL)
 UN Number: UN1993
 Hazard Class / Division: 3
 Packing Group: III

Reportable Quantity (per packaging):

CAS	RQ	Name
75-07-0	>100000	ACETALDEHYDE
108-10-1	>100000	METHYL ISOBUTYL KETONE
110-54-3	>100000	N-HEXANE
110-82-7	>100000	CYCLOHEXANE
1336-21-6	50000	AMMONIUM HYDROXIDE
141-78-6	>100000	ETHYL ACETATE
67-56-1	>100000	METHYL ALCOHOL
67-64-1	>100000	ACETONE

Regulated Quantity:

Bulk	Non-Bulk	Limited Quantity
X	X	

Label: FLAMMABLE LIQUID

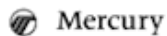
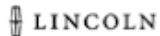
Canadian Transportation of Dangerous Goods (T.D.G.) - TDGR Schedule II

Proper Shipping Name: FLAMMABLE LIQUIDS, N.O.S. (ETHYL ALCOHOL)
 UN Number: UN1993
 Hazard Class / Division: 3
 Packing Group: III

Regulated Quantity:

Bulk	Non-Bulk	Limited Quantity
X	X	

Label: FLAMMABLE LIQUID



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FIR No.: 002638
Version Number: US-US-3

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

Proper Shipping Name: LIQUIDO INFLAMABLE, N.E.P. (ETHYL ALCOHOL)
 UN Number: UN1993
 Hazard Class/Division: 3
 Packing Group: III
 Regulated Quantity:

Bulk	Non-Bulk	Limited Quantity
X	X	

Label: FLAMMABLE LIQUID

International and Domestic Air Transportation - ICAO & IATA Section 4.2

Proper Shipping Name: FLAMMABLE LIQUIDS, N.O.S. (ETHYL ALCOHOL)
 UN Number: UN1993
 Hazard Class/Division: 3
 Packing Group: III
 Label: FLAMMABLE LIQUID

International Water Transportation - IMDG Code Amendment 31-02

Proper Shipping Name: FLAMMABLE LIQUIDS, N.O.S. (ETHYL ALCOHOL)
 UN Number: UN1993
 Hazard Class/Division: 3
 Flashpoint: 51.1 °C ASTM D 93
 Packing Group: III
 Regulated Quantity:

Bulk	Non-Bulk	Limited Quantity
X	X	

Label: FLAMMABLE LIQUID

15. Regulatory Information

This product contains trace amounts of chemicals (<0.01%) being listed on California Prop 65 list.
 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.



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FIR No.: 002638
Version Number: US-US-3

Level: 1
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This product contains an ingredient(s) considered to be a hazardous substance(s) by the State of New Jersey.
This product contains an ingredient(s) considered to be a hazardous substance by the State of Pennsylvania (Pennsylvania Worker and Community Right to Know Act).
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 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

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: 2 (Moderate) Physical Hazard: 0 (Least)

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

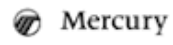
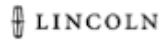
The following sections contain revisions OR NEW statements. 2, 15, 16

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.

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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Version Number: US-US-3

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Attachment

Product Code	Container Size	Part of Kit	Kit Product Code
ZC-15	16 fl. oz. (473 mL)		
