

FIR No.: 162886 Level: 2

Version Number: CA-EN-6 Release Date: 2010-03-29

1. Product and Company Identification

Product Name:Metal Surface PrepProduct Code:See Attachment

Application:Cleans and degreases metal surfacesSupplier: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
D-LIMONENE	5989-27-5	60-100	RSMS_D_ALL WHMIS 1
ETHYLENE GLYCOL MONOBUTYL ETHER	111-76-2	10-30	PEL/TLV-US RSMS_D_ALL HAZCOM ACGIH/OSHA WHMIS 1
KAOLINITE [AL2(SI2O7).2H2O]	1318-74-7	7-13	HAZCOM SARA 313 WHMIS 1
PROPYLENE CARBONATE	108-32-7	1-5	WHMIS 1
DIOCTYL SODIUM SULFOSUCCINATE	577-11-7	1-5	WHMIS 1
NAPHTHA (PETROLEUM), HEAVY ALKYLATE	64741-65-7	1-5	HAZCOM RSMS_D_ALL

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3. Hazards Identification

**COMBUSTIBLE** 

**Health:** This product may cause irritation to the respiratory system and skin.

Produces irritation to the eyes, characterized by a burning sensation,

redness, tearing, inflammation, and possible corneal injury.

Excessive inhalation of this product may cause headache, dizziness,

blurred vision, nausea and vomiting. This product is harmful if swallowed.

If ingested, this product may cause gastrointestinal irritation.

Ingestion of this product may cause nausea, vomiting and diarrhea. Prolonged and/or repeated skin contact with this product may cause

irritation/dermatitis.

This product may cause central nervous system (CNS) 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:** 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.

**Notes to a Physician:** If the affected person is not breathing, apply artificial respiration.

If the affected person's breathing is difficult, give oxygen.

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:** Due to pressure buildup, closed containers exposed to excess heat

may explode.

HAZARDOUS DECOMPOSITION PRODUCTS: May produce ammonia, hydrogen cyanide, acrylamide, aromatic and aliphatic hydrocarbon fractions, aldehydes, ketones, acrylein and carbon

monoxide, an asphyxiant.

Water or foam may cause frothing if the product is heated above 93

degrees C (200 degrees F).

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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:** Eliminate all sources of ignition or flammables that may come into

contact with a spill of this material. Provide adequate ventilation.

Surfaces may become slippery after spillage.

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

**Precautions and Advice for Safe** 

Handling:

Avoid eye contact.

Avoid prolonged or repeated skin contact with this material.

Keep the container closed when not in use.

**Storage:** Technical Measures: Do not reuse the empty container.

**Storage Conditions:** Do not expose to heat or store at temperatures above 49°C (120°F).

Store this product away from acids.

Store this product away from strong oxidizing agents.

8. Exposure Controls/Personal Protection

Engineering Measures: ENGINEERING CONTROL: 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.

**Exposure Limits:** 

Chemical Name TWA References
ETHYLENE GLYCOL 20(ppm) ACGIH

MONOBUTYL ETHER

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**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 nitrile-latex gloves is recommended.

**Eye Protection:** Wear safety glasses with side shields.

**Skin and Body Protection:** Light protective clothing is recommended.

Remove contaminated clothing and wash before reuse.

Wash thoroughly after handling.

9. Physical and Chemical Properties

Specific Gravity: 0.89-0.90

Physical State: GEL

Form: GEL

Odor: TERPENE ODOR

Color: N.AV pH: N.AP

Temperature Range During which Changes in Physical State Occur:

iri nysicai State Occur.

Boiling Point: ND

Flash Point: 38 °C ASTM D56

**Explosion Properties:** 

UEL: N.AV LEL: N.AV Vapor Pressure: ND

Vapor Density: >1 (AIR=1)

Solubility: INSOLUBLE IN WATER

Viscosity: N.AP

**Evaporation Rate:** <1 (BuAc = 1)

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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 alkalies.

This product may react with strong oxidizing agents (bleach--sodium hypochlorite, calcium hypochlorite, hydrogen peroxide, permanganate,

nitric acid, concentrated OXYGEN, perchlorates).

Hazardous Decomposition Products: Decomposition of this product may emit hydrogen sulfide.

Decomposition of this product may yield hydrogen chloride (HCl). Irritating and/or toxic fumes may be emitted upon the product's

decomposition.

### 11. Toxicological Information

111-76-2 ETHYLENE GLYCOL MONOBUTYL ETHER Inhalation, adult rat, LC50 = 450 ppm (4 Hours)
108-32-7 PROPYLENE CARBONATE
Oral, adult rat, LD50 = 29 gm/kg
5989-27-5 D-LIMONENE
Oral, adult rat, LD50 = 4400 mg/kg
577-11-7 DIOCTYL SODIUM SULFOSUCCINATE
Oral, adult rat, LD50 = 1900 mg/kg
111-76-2 ETHYLENE GLYCOL MONOBUTYL ETHER
Oral, adult rat, LD50 = 530 mg/kg
111-76-2 ETHYLENE GLYCOL MONOBUTYL ETHER
Skin, adult guinea pig, LD50 = 230 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.

**Eye Contact:** Produces irritation to the eyes, characterized by a burning sensation,

redness, tearing, inflammation, and possible corneal injury.

2-BUTOXYETHANOL (111-76-2): this product is an experimental reproductive toxin and an experimental teratogen. In laboratory animal teratology studies on 2-Butoxyethanol, no embryotoxicity or lethality was observed without maternal effects (concentrations 100-300 ppm.) These studies do not establish a risk of birth defects in humans. The results of in-vitro mutagenicity tests have been inconclusive. In-vitro

mutagenicity tests for 2-Butoxyethanol have been negative.

This product contains an ingredient(s) which has been found to cause

birth defects in experimental animals.

### 12. Ecological Information

No specific aquatic data available for this product.

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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: CONSUMER COMMODITY

Hazard Class / Division: ORM-D

Regulated Quantity:

Bulk Non-Bulk Limited Quantity

X X

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

Proper Shipping Name: FLAMMABLE LIQUIDS, N.O.S. (NAPHTHA (PETROLEUM), HEAVY

ALKYLATE)

UN Number: UN1993

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: LIQUIDO INFLAMABLE, N.E.P. (NAPHTHA (PETROLEUM), HEAVY

ALKYLATE)

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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#### International and Domestic Air Transportation - ICAO & IATA Section 4.2

Proper Shipping Name: Consumer commodity

Hazard Class/Division: ORM-D

### International Water Transportation - IMDG Code Amendment 31-02

FLAMMABLE LIQUIDS, N.O.S. (NAPHTHA (PETROLEUM), HEAVY Proper Shipping Name:

ALKYLATE)

UN1993 **UN Number:** 

Hazard Class/Division: 3

38 °C ASTM D56 Flashpoint:

Packing Group: Ш

Χ

Regulated Quantity:

Non-Bulk Limited Quantity

Χ

Label: FLAMMABLE LIQUID

#### 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 B DIVISION 3: Combustible Liquids

CLASS D DIVISION 2 SUBDIVISION B: Poisonous/Infectious Material Causing Other Toxic Effects - Toxic Material This product contains ingredients 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

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**NEW** statements. 15

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**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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**Attachment** 

Product Code Container Size Part of Kit Kit Product Code

ZC-31 (Obsolete) 16 fl. oz. (473 mL) ZC-31-A 16 fl. oz. (473 mL)

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