Material Safety Data Sheet

FIR No.: 009836 **Level:** 7
Version Number: US-US-7 **Release Date:** 2007-06-13

1. Product and Company Identification

Product Name: Lacquer Touch-up Paint
Product Code: See Attachment
Application: Automotive exterior touch-up paint
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.

METHYL ETHYL KETONE	78-93-3	15-25	MOC-ALL RQ SARA 313 CAA-HAP WHMIS 1 HAZCOM
TOLUENE	108-88-3	15-25	CAA-HAP RQ SARA 313 WHMIS 1 RSMS_D_ALL MOC-ALL HAZCOM
ETHYL ALCOHOL	64-17-5	1-10	HAZCOM WHMIS 0.1 RSMS_D_ALL
METHYL ISOBUTYL KETONE	108-10-1	1-10	CAA-HAP HAZCOM WHMIS 1 SARA 313 RQ MOC-ALL
TITANIUM DIOXIDE	13463-67-7	5-10	HAZCOM
METHYL ALCOHOL	67-56-1	1-5	CAA-HAP MOC-ALL RQ SARA 313 WHMIS 1 RSMS_D_ALL HAZCOM

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ISOPROPANOL	67-63-0	1-5	HAZCOM WHMIS 1 SARA 313
BUTYL BENZYL PHTHALATE	85-68-7	1-5	RQ RSMS_D_ALL WHMIS 1
ETHYL ACETATE	141-78-6	1-5	HAZCOM WHMIS 1 RQ
COPPER, [PHTHALOCYANINATO(2-)]-	147-14-8	0-5	MOC-ALL SARA 313 WHMIS 1
PHTHALOCYANINE GREEN	1328-53-6	0-5	MOC-ALL WHMIS 1 SARA 313
CARBON BLACK	1333-86-4	0-5	HAZCOM WHMIS 1 IARC2B-NA RSMS_D_ALL
SILICA, AMORPHOUS	7631-86-9	0-5	HAZCOM WHMIS 1
MICA GROUP MINERALS	12001-26-2	0-5	HAZCOM SARA 313 WHMIS 1
SOLVENT NAPHTHA (PETROLEUM), MEDIUM ALIPHATIC	64742-88-7	1-5	HAZCOM
ETHYLBENZENE	100-41-4	.1-<1	CAA-HAP MOC-ALL RQ RSMS_D_ALL SARA 313 WHMIS 0.1
NAPHTHENIC ACIDS, NICKEL	61788-71-4	0.2	RSMS_D_ALL

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3. Hazards Identification

FLAMMABLE

Health:

May cause skin, eye and respiratory tract irritation.
Inhalation of mist and vapors may irritate the nose, throat, and lungs.
Prolonged and/or repeated skin contact with this product may cause irritation/dermatitis.
Excessive inhalation of this material causes headache, dizziness, nausea and incoordination.
Overexposure may cause central nervous system depression.
Extreme overexposure may result in unconsciousness and possibly death.

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:

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.

Most Important Symptoms Effects:

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

5. Fire-Fighting Measures

Extinguishing Media:

Dry chemical, foam, carbon dioxide.

Specific Methods:

Water may be an ineffective extinguishing medium.
Water may be used to cool exposed containers to prevent pressure build-up and explosion when exposed to extreme heat.

Specific Hazards:

Fire and Explosion hazards are DANGEROUS when this material is exposed to heat or flame.
Due to pressure buildup, closed containers exposed to excess heat may explode.

Protection of Firefighters:

Wear self-contained breathing apparatus.

6. Accidental Release Measures

Personal Precautions:
Eliminate all sources of ignition or flammables that may come into contact with a spill of this material.
Avoid skin contact and inhalation of vapors during disposal of spills.
Ventilate the contaminated area.
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.

7. Handling and Storage

Handling:

Technical Measures:
No special precautions necessary.

Precautions and Advice for Safe Handling:
Keep away from heat, spark and open flame.
Avoid breathing vapor or mist.
Avoid contact with skin, eyes and clothing.
Keep the container closed when not in use.
Use with adequate ventilation.

Storage:

Technical Measures:
Eliminate all sources of ignition.

Storage Conditions:
Keep the container tightly closed and in a cool, well-ventilated place.

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8. Exposure Controls/Personal Protection

Engineering Measures: Use local exhaust.

Exposure Limits:

Chemical Name	TWA 8 hr	STEL/C	References	Notes
ETHYL ALCOHOL	1000(ppm)		ACGIH	
	1000(ppm)	1900(ppm)	OSHA	
METHYL ALCOHOL	200(ppm)		ACGIH	
	200(ppm)	260(ppm)	OSHA	
ISOPROPANOL	200(ppm)		ACGIH	
	400(ppm)	980(ppm)	OSHA	
METHYL ETHYL KETONE	200(ppm)		ACGIH	
	200(ppm)	590(ppm)	OSHA	
ETHYLBENZENE	100(ppm)		ACGIH	
	100(ppm)	435(ppm)	OSHA	
METHYL ISOBUTYL KETONE	50(ppm)	75(ppm)	ACGIH	
	100(ppm)	410(ppm)	OSHA	
TOLUENE	50(ppm)		ACGIH	
	200(ppm) C 300(mg/m3)		OSHA	
ETHYL ACETATE	400(ppm)		ACGIH	
	400(ppm)	1400(ppm)	OSHA	
CARBON BLACK	3.5(mg/m3)		ACGIH	
		3.5(ppm)	OSHA	
MICA GROUP MINERALS	Note		ACGIH	3 mg/m3 TWA (this TLV is for the respirable fraction of dust for Mica)
			OSHA	
TITANIUM DIOXIDE	10(mg/m3)		ACGIH	
		15(ppm)	OSHA	

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Personal Protective Equipment:

Respiratory Protection: Use an organic vapor respirator for concentrations exceeding the Occupational Exposure Limit.

Hand Protection: Protective gloves should be worn when the potential exists for prolonged or repeated skin exposure. Neoprene, Nitrile Acrylonitrile-Butadiene Rubber (NBR), Nitrile, or Silver Shield is recommended.

Eye Protection: 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.

9. Physical and Chemical Properties

Specific Gravity: 1.03

Physical State: FLUID LIQUID

Odor: N.AV

Color: NA

pH: N.AV

Temperature Range During which Changes in Physical State Occur:

Boiling Point: 64.4-201.6 °C (148-395F)

Flash Point: -1.666667 °C TCC

Explosion Properties:

UEL: 36.5 %

LEL: 1.0 %

Vapor Density: >1 (AIR = 1)

Solubility: NA

Viscosity: 75@38°C cST

Evaporation Rate: <1 Ether = 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.

Hazardous Decomposition Products:

Carbon monoxide, carbon dioxide, and other low molecular weight hydrocarbons.
Irritating and toxic gases or fumes may be released during a fire.

11. Toxicological Information

141-78-6 ETHYL ACETATE
Inhalation, adult rat, LC50 = 1600 ppm (8 Hours)
64-17-5 ETHYL ALCOHOL
Inhalation, adult rat, LC50 = 20000 ppm (10 Hours)
67-56-1 METHYL ALCOHOL
Inhalation, adult rat, LC50 = 64000 ppm (4 Hours)
108-10-1 METHYL ISOBUTYL KETONE
Inhalation, adult rat, LC50 = 8000 ppm (4 Hours)
78-93-3 METHYL ETHYL KETONE
Inhalation, mouse, LC50 = 40 gm/m3 (2 Hours)
108-88-3 TOLUENE
Inhalation, mouse, LC50 = 5320 ppm (8 Hours)
108-10-1 METHYL ISOBUTYL KETONE
Oral, adult rat, LD50 = 2080 mg/kg
85-68-7 BUTYL BENZYL PHTHALATE
Oral, adult rat, LD50 = 2330 mg/kg
78-93-3 METHYL ETHYL KETONE
Oral, adult rat, LD50 = 2737 mg/kg
7631-86-9 SILICA, AMORPHOUS
Oral, adult rat, LD50 = 3160 mg/kg
108-88-3 TOLUENE
Oral, adult rat, LD50 = 5000 mg/kg
763-69-9 ETHYL 3-ETHOXYPROPANOATE
Oral, adult rat, LD50 = 5000 mg/kg
67-63-0 ISOPROPANOL
Oral, adult rat, LD50 = 5045 mg/kg
141-78-6 ETHYL ACETATE
Oral, adult rat, LD50 = 5620 mg/kg
67-56-1 METHYL ALCOHOL
Oral, adult rat, LD50 = 5628 mg/kg
64-17-5 ETHYL ALCOHOL
Oral, adult rat, LD50 = 7060 mg/kg
763-69-9 ETHYL 3-ETHOXYPROPANOATE
Skin, adult rabbit, LD50 = 10 gm/kg
108-88-3 TOLUENE
Skin, adult rabbit, LD50 = 12124 mg/kg
67-63-0 ISOPROPANOL
Skin, adult rabbit, LD50 = 12800 mg/kg
78-93-3 METHYL ETHYL KETONE
Skin, adult rabbit, LD50 = 13 gm/kg
67-56-1 METHYL ALCOHOL
Skin, adult rabbit, LD50 = 15800 mg/kg

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Chronic (Long Term) Toxicity:

Based on animal studies, exposure to methyl ethyl ketone (MEK) increases the onset of peripheral neuropathy caused by exposure to methyl butyl ketone (MBK), and/or n-hexane, and/or ethyl butyl ketone. MEK alone has not been shown to cause peripheral neuropathy.
Ethyl benzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. There is no evidence that ethylbenzene causes cancer in humans.
The National Toxicology Program (NTP) conducted a two year inhalation study of ethylbenzene vapor on laboratory animals. The study revealed that ethylbenzene vapor at 750 ppm produced kidney and testicular tumors in rats and lung and liver tumors in mice. Human data is not available at this time.
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 inhaltion of TITANIUM DIOXIDE dusts from coatings is very limited. Since overexposures are not expected, there is no significant hazard for man.
NICKEL: Long term overexposure to NICKEL compounds may cause lung fibrosis or pneumoconiosis. Studies of NICKEL refinery workers indicated a higher incidence of lung and nasal cancers. NICKEL and its compounds are required to be considered as Carcinogenic by OSHA, although the International Agency for Research on Cancer (IARC) states that specific NICKEL compounds that may be carcinogenic to humans cannot be identified.
This product contains carbon black which has been shown to cause cancer in laboratory animals by inhalation and is listed as a suspect carcinogen by IARC (Group 2B). The carbon black that caused cancer contained polynuclear aromatic hydrocarbons (PAH), whereas carbon black containing no PAH produced no cancer.
Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

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:	Paint
UN Number:	UN1263
Hazard Class / Division:	3
Packing Group:	II
Reportable Quantity (per packaging):	

CAS	RQ	Name
67-56-1	>100000	METHYL ALCOHOL
78-93-3	26316	METHYL ETHYL KETONE
85-68-7	3333	BUTYL BENZYL PHTHALATE
100-41-4	>100000	ETHYLBENZENE
108-10-1	100000	METHYL ISOBUTYL KETONE
108-88-3	5263	TOLUENE
141-78-6	>100000	ETHYL ACETATE

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:	PAINT
UN Number:	UN1263
Hazard Class / Division:	3
Packing Group:	II

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:	PINTURA
UN Number:	UN1263
Hazard Class/Division:	3
Packing Group:	II

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:	PAINT
UN Number:	UN1263
Hazard Class/Division:	3
Packing Group:	II
Label:	FLAMMABLE LIQUID

International Water Transportation - IMDG Code Amendment 31-02

Proper Shipping Name:	PAINT
UN Number:	UN1263
Hazard Class/Division:	3
Packing Group:	II
Ems Number:	3-05

Regulated Quantity:

Bulk	Non-Bulk	Limited Quantity
X	X	

Label: FLAMMABLE LIQUID

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.
California Proposition 65: WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.
This product contains an ingredient(s) considered to be a "toxic or hazardous substance" by the Commonwealth of Massachussetts (Massachussetts Right to Know Law).

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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 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

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

Product Code	Container Size	Part of Kit	Kit Product Code
ALBZ-19500-XXXXX (Obsolete)	0.5 fl. oz. (14.7 mL)		
PM-19K507-AD (Obsolete)	1 Assortment Kit		
PM-19K507-AE	1 Assortment Kit		
PM-19K507-BD (Obsolete)	1 Assortment Kit		
PM-19K507-BE	1 Assortment Kit		
PM-19500-XXXXX	0.5 fl. oz. (14.7 mL)		
PMP-19500-XXXXX	0.5 fl. oz. (14.7 mL)		