



Material Safety Data Sheet

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SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 3M(TM) Imperial(TM) Microfinishing Compound-Paste, P.N. 06030, 06031, 06033
MANUFACTURER: 3M
DIVISION: Automotive Aftermarket
ADDRESS: 3M Center
St. Paul, MN 55144-1000

EMERGENCY PHONE: 1-800-364-3577 or (651) 737-6501 (24 hours)

Issue Date: 10/02/2006
Supersedes Date: 11/12/2004

Document Group: 10-2869-5

Product Use:

Intended Use: Automotive
Limitations on Use: Automotive Painted Surface Refinishing
Specific Use: Finishing compound for removing microfine scratches in automotive paints.

SECTION 2: INGREDIENTS

| <u>Ingredient</u> | <u>C.A.S. No.</u> | <u>% by Wt</u> |
|--|-------------------|----------------|
| WATER | 7732-18-5 | 15 - 40 |
| TRIPOLI (CRYSTALLINE SILICA) | 1317-95-9 | 15 - 40 |
| HYDROTREATED LIGHT PETROLEUM DISTILLATES | 64742-47-8 | 10 - 30 |
| GLYCERIN | 56-81-5 | 1 - 5 |
| STODDARD SOLVENT | 8052-41-3 | 1 - 5 |
| SOLVENT-REFINED HEAVY PARAFFINIC PETROLEUM DISTILLATES | 64741-88-4 | 1 - 5 |
| OLEIC ACID | 112-80-1 | 1 - 5 |
| MINERAL OIL | 64741-89-5 | <2 |
| 2-HYDROXYMETHYLAMINO-ETHANOL | 34375-28-5 | <0.2 |
| BENZENE | 71-43-2 | <0.005 |

SECTION 3: HAZARDS IDENTIFICATION

3.1 EMERGENCY OVERVIEW

Specific Physical Form: Paste

Odor, Color, Grade: buff, slight kerosene odor

General Physical Form: Liquid

Immediate health, physical, and environmental hazards: Combustible liquid and vapor. Closed containers exposed to heat from fire may build pressure and explode. Vapors may travel long distances along the ground or floor to an ignition source and flash back. May cause allergic skin reaction. Contains a chemical or chemicals which can cause cancer. May cause target organ effects. Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

3.2 POTENTIAL HEALTH EFFECTS

Eye Contact:

Mild Eye Irritation: Signs/symptoms may include redness, pain, and tearing.

Skin Contact:

Moderate Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness.

Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Inhalation:

Upper Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

During grinding, scraping, sanding:

Silicosis: Signs/symptoms may include breathlessness, weakness, chest pain, persistent cough, increased amounts of sputum, and heart disease.

May be absorbed following inhalation and cause target organ effects.

Ingestion:

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, nausea, diarrhea and vomiting.

May be absorbed following ingestion and cause target organ effects.

Target Organ Effects:

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

| <u>Ingredient</u> | <u>C.A.S. No.</u> | <u>Class Description</u> | <u>Regulation</u> |
|---|-------------------|--------------------------|---|
| BENZENE | 71-43-2 | Group 1 | International Agency for Research on Cancer |
| BENZENE | 71-43-2 | Known human carcinogen | National Toxicology Program Carcinogens |
| BENZENE | 71-43-2 | Cancer hazard | OSHA Carcinogens |
| SILICA, CRYSTALLINE (AIRBORNE PARTICLES OF | NONE | Group 1 | International Agency for Research on Cancer |

RESPIRABLE SIZE)
SILICA, CRYSTALLINE NONE Known human carcinogen National Toxicology Program Carcinogens
(AIRBORNE PARTICLES OF
RESPIRABLE SIZE)

SECTION 4: FIRST AID MEASURES

4.1 FIRST AID PROCEDURES

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

Eye Contact: Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

Skin Contact: Remove contaminated clothing and shoes. Immediately flush skin with large amounts of water. Get medical attention. Wash contaminated clothing and clean shoes before reuse.

Inhalation: Remove person to fresh air. If signs/symptoms develop, get medical attention.

If Swallowed: Do not induce vomiting. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get immediate medical attention.

SECTION 5: FIRE FIGHTING MEASURES

5.1 FLAMMABLE PROPERTIES

| | |
|-----------------------------------|--|
| Autoignition temperature | <i>No Data Available</i> |
| Flash Point | 142 °F [<i>Test Method:</i> Closed Cup] |
| Flammable Limits - LEL | 0.70 % |
| Flammable Limits - UEL | 7.00 % |
| OSHA Flammability Classification: | Class IIIA Combustible Liquid |

5.2 EXTINGUISHING MEDIA

Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).

5.3 PROTECTION OF FIRE FIGHTERS

Special Fire Fighting Procedures: Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. Water may be used to blanket the fire. Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

Unusual Fire and Explosion Hazards: Combustible liquid and vapor. Closed containers exposed to heat from fire may build pressure and explode. Vapors may travel long distances along the ground or floor to an ignition source and flash back.

Note: See STABILITY AND REACTIVITY (SECTION 10) for hazardous combustion and thermal decomposition information.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Accidental Release Measures: Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment. Call 3M-HELPS line (1-800-364-3577) for more information

on handling and managing the spill. Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a toxic, corrosivity or flammability hazard. Collect as much of the spilled material as possible using non-sparking tools. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and MSDS. Collect the resulting residue containing solution. Place in a metal container approved for transportation by appropriate authorities. Seal the container. Dispose of collected material as soon as possible.

In the event of a release of this material, the user should determine if the release qualifies as reportable according to local, state, and federal regulations.

SECTION 7: HANDLING AND STORAGE

7.1 HANDLING

Keep out of the reach of children. Avoid eye contact with vapors, mists, or spray. Avoid skin contact. Avoid breathing of vapors, mists or spray. Avoid breathing of dust created by cutting, sanding, grinding or machining. Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Keep away from heat, sparks, open flame, pilot lights and other sources of ignition. Avoid contact with oxidizing agents.

7.2 STORAGE

Store away from heat. Store out of direct sunlight. Store away from acids. Store away from oxidizing agents.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 ENGINEERING CONTROLS

Use in a well-ventilated area. Use with appropriate local exhaust ventilation. Provide appropriate local exhaust for cutting, grinding, sanding or machining. If exhaust ventilation is not available, use appropriate respiratory protection. Continuous spurring of dry buff pads may produce dust conditions in excess of the OSHA Permissible Exposure Limit (PEL) or the Threshold Limit Value (TLV) for crystalline silica. When cleaning or spurring a dry buff pad used with this product, use appropriate local exhaust to control dust, or use appropriate respiratory protection to avoid inhalation of dusts.

8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

8.2.1 Eye/Face Protection

Avoid eye contact with vapors, mists, or spray.

The following eye protection(s) are recommended: Safety Glasses with side shields, Indirect Vented Goggles.

8.2.2 Skin Protection

Avoid skin contact.

Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials.

Gloves made from the following material(s) are recommended: Fluoroelastomer (Viton), Nitrile Rubber.

8.2.3 Respiratory Protection

Avoid breathing of vapors, mists or spray. Avoid breathing of dust created by cutting, sanding, grinding or machining.

Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with

OSHA regulations: Half facepiece or fullface air-purifying respirator with organic vapor cartridges and P95 particulate prefilters. Consult the current 3M Respiratory Selection Guide for additional information or call 1-800-243-4630 for 3M technical assistance.

8.2.4 Prevention of Swallowing

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water.

8.3 EXPOSURE GUIDELINES

| <u>Ingredient</u> | <u>Authority</u> | <u>Type</u> | <u>Limit</u> | <u>Additional Information</u> |
|---|------------------|--------------------------------------|--------------|-------------------------------|
| BENZENE | ACGIH | TWA | 0.5 ppm | Skin Notation*; Table A1 |
| BENZENE | ACGIH | STEL | 2.5 ppm | Skin Notation*; Table A1 |
| BENZENE | OSHA | TWA | 1 ppm | Standard Appendix |
| BENZENE | OSHA | STEL | 5 ppm | Standard Appendix |
| GLYCERIN | ACGIH | TWA, as mist | 10 mg/m3 | |
| GLYCERIN | OSHA | TWA, as mist, respirable | 5 mg/m3 | Table Z-1 |
| GLYCERIN | OSHA | TWA, Vacated, as mist, total dust | 10 mg/m3 | |
| GLYCERIN | OSHA | TWA, as mist, total dust | 15 mg/m3 | Table Z-1 |
| HYDROTREATED LIGHT PETROLEUM DISTILLATES | CMRG | TWA | 300 ppm | |
| SOLVENT-REFINED HEAVY PARAFFINIC PETROLEUM DISTILLATES | CMRG | TWA | 5 mg/m3 | |
| STODDARD SOLVENT | ACGIH | TWA | 100 ppm | |
| STODDARD SOLVENT | OSHA | TWA, Vacated | 100 ppm | Table Z-1A |
| STODDARD SOLVENT | OSHA | TWA | 500 ppm | Table Z-1 |
| TRIPOLI (CRYSTALLINE SILICA) | ACGIH | TWA, respirable | 0.025 mg/m3 | Table A2 |
| TRIPOLI (CRYSTALLINE SILICA) | OSHA | TWA, respirable | 0.1 mg/m3 | Table Z-1A |
| VEGETABLE OIL MISTS | OSHA | TWA, as mist | 10 mg/m3 | Table Z-1A |
| VEGETABLE OIL MISTS (EXCEPT CASTOR, CASHEW, OR SIMILAR IRRITANT OILS) | ACGIH | TWA, as mist | 10 mg/m3 | |

* Substance(s) refer to the potential contribution to the overall exposure by the cutaneous route including mucous membrane and eye, either by airborne or, more particularly, by direct contact with the substance. Vehicles can alter skin absorption.

VAC Vacated PEL: Vacated Permissible Exposure Limits [PEL] are enforced as the OSHA PEL in some states. Check with your local regulatory agency.

SOURCE OF EXPOSURE LIMIT DATA:

ACGIH: American Conference of Governmental Industrial Hygienists

CMRG: Chemical Manufacturer Recommended Guideline

OSHA: Occupational Safety and Health Administration

AIHA: American Industrial Hygiene Association Workplace Environmental Exposure Level (WEEL)

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---------------------------------|---|
| Specific Physical Form: | Paste |
| Odor, Color, Grade: | buff, slight kerosene odor |
| General Physical Form: | Liquid |
| Autoignition temperature | <i>No Data Available</i> |
| Flash Point | 142 °F [<i>Test Method: Closed Cup</i>] |
| Flammable Limits - LEL | 0.70 % |
| Flammable Limits - UEL | 7.00 % |

| | |
|---|--|
| Boiling point | 212 °F |
| Vapor Density | 4.50 [<i>Ref Std: AIR=1</i>] |
| Specific Gravity | 1.190 [<i>Ref Std: WATER=1</i>] |
| Melting point | <i>No Data Available</i> |
| Solubility in Water | Negligible |
| Evaporation rate | <i>No Data Available</i> |
| Volatile Organic Compounds | 2.07 lb/gal [<i>Test Method: calculated SCAQMD rule 443.1</i>] |
| Percent volatile | 55 - 65 % weight |
| VOC Less H2O & Exempt Solvents | 444 g/l [<i>Test Method: calculated SCAQMD rule 443.1</i>] |
| Viscosity | 45,000 - 100,000 centipoise |

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable.

Materials and Conditions to Avoid: Strong oxidizing agents

Hazardous Polymerization: Hazardous polymerization will not occur.

Hazardous Decomposition or By-Products

Substance

Carbon monoxide
Carbon dioxide

Condition

During Combustion
During Combustion

SECTION 11: TOXICOLOGICAL INFORMATION

Please contact the address listed on the first page of the MSDS for Toxicological Information on this material and/or its components.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

Not determined.

CHEMICAL FATE INFORMATION

Not determined.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method: Incinerate in a permitted hazardous waste incinerator. As a disposal alternative, dispose of waste product in a permitted hazardous waste facility.

EPA Hazardous Waste Number (RCRA): D018 (Benzene)

Since regulations vary, consult applicable regulations or authorities before disposal.

SECTION 14: TRANSPORT INFORMATION

ID Number(s):

60-4100-0995-9, 60-4100-0996-7, 60-9800-1105-4, 60-9800-1530-3, 60-9800-1648-3

Please contact the emergency numbers listed on the first page of the MSDS for Transportation Information for this material.

SECTION 15: REGULATORY INFORMATION

US FEDERAL REGULATIONS

Contact 3M for more information.

311/312 Hazard Categories:

Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - Yes

STATE REGULATIONS

Contact 3M for more information.

CALIFORNIA PROPOSITION 65

| <u>Ingredient</u> | <u>C.A.S. No.</u> | <u>Classification</u> |
|---|-------------------|--------------------------|
| BENZENE | 71-43-2 | *Male reproductive toxin |
| BENZENE | 71-43-2 | **Carcinogen |
| BENZENE | 71-43-2 | *Developmental Toxin |
| SILICA, CRYSTALLINE (AIRBORNE PARTICLES OF RESPIRABLE SIZE) | NONE | **Carcinogen |

* WARNING: contains a chemical or chemicals which can cause birth defects or other reproductive harm.

** WARNING: contains a chemical which can cause cancer.

CHEMICAL INVENTORIES

The components of this product are in compliance with the chemical notification requirements of TSCA.

All applicable chemical ingredients in this material are listed on the European Inventory of Existing Chemical Substances (EINECS), or are exempt polymers whose monomers are listed on EINECS.

Contact 3M for more information.

INTERNATIONAL REGULATIONS

Contact 3M for more information.

WHMIS: Hazardous

This MSDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 16: OTHER INFORMATION

NFPA Hazard Classification

Health: 2 **Flammability:** 2 **Reactivity:** 0 **Special Hazards:** None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

Revision Changes:

Section 1: Product use information was modified.

Copyright was modified.

Section 8: Exposure guidelines ingredient information was modified.

Section 16: Reason for reissue heading was deleted.

Section 16: Reason for reissue phrase was deleted.

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