



## Material Safety Data Sheet

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### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** 3M(TM) Marine Fiberglass Restorer and Wax, P.N. 09005, 09005F, 09005I; 09006, 09006E; 09007, 09007E

**MANUFACTURER:** 3M

**DIVISION:** Marine & Specialty Vehicle

**ADDRESS:** 3M Center  
St. Paul, MN 55144-1000

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

**Issue Date:** 07/14/2005

**Supersedes Date:** 10/06/2004

**Document Group:** 06-3248-9

#### Product Use:

Intended Use: Marine trades, polish and wax.

Specific Use: Marine polish and wax

### SECTION 2: INGREDIENTS

| <u>Ingredient</u>                        | <u>C.A.S. No.</u> | <u>% by Wt</u> |
|--|-------------------|----------------|
| WATER                                    | 7732-18-5         | 30 - 60        |
| TRIPOLI (CRYSTALLINE SILICA)             | 1317-95-9         | 10 - 30        |
| HYDROTREATED LIGHT PETROLEUM DISTILLATES | 64742-47-8        | 10 - 30        |
| ALUMINUM SILICATE                        | 66402-68-4        | 3 - 7          |
| POLYDIMETHYLSILOXANE                     | 63148-62-9        | 1 - 5          |
| MONTAN WAX                               | 8002-53-7         | 1 - 5          |
| CARNAUBA WAX                             | 8015-86-9         | 1 - 5          |
| MONTAN-WAX FATTY ACIDS                   | 68476-03-9        | < 5            |
| MINERAL OIL                              | 64741-89-5        | <= 0.5         |
| CHLOROTHALONIL                           | 1897-45-6         | 0.01 - 0.08    |
| FORMALDEHYDE                             | 50-00-0           | < 0.012        |
| ETHYL ACRYLATE                           | 140-88-5          | <= 0.000002    |

### SECTION 3: HAZARDS IDENTIFICATION

#### 3.1 EMERGENCY OVERVIEW

**Specific Physical Form:** Paste

**Odor, Color, Grade:** mild solvent odor, tan to beige color.

**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. Contains a chemical or chemicals which can cause cancer. May cause target organ effects.

### 3.2 POTENTIAL HEALTH EFFECTS

**Eye Contact:**

Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

**Skin Contact:**

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

**Inhalation:**

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

Prolonged or repeated exposure may cause:

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, stomach upset, nausea, vomiting and diarrhea.

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.

**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>                           |
|---|-------------------|------------------------------|---|
| CHLOROTHALONIL                                | 1897-45-6         | Group 2B                     | International Agency for Research on Cancer |
| ETHYL ACRYLATE                                | 140-88-5          | Group 2B                     | International Agency for Research on Cancer |
| FORMALDEHYDE                                  | 50-00-0           | Group 1                      | International Agency for Research on Cancer |
| FORMALDEHYDE                                  | 50-00-0           | Anticipated human carcinogen | National Toxicology Program Carcinogens     |
| FORMALDEHYDE                                  | 50-00-0           | Cancer hazard                | OSHA Carcinogens                            |
| SILICA, CRYSTALLINE<br>(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 unless instructed to do so by medical personnel. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get medical attention.

## SECTION 5: FIRE FIGHTING MEASURES

### 5.1 FLAMMABLE PROPERTIES

|                                   |  |
|-----------------------------------|--|
| Autoignition temperature          | No Data Available  |
| Flash Point                       | 150 °F [Test Method: Pensky-Martens Closed Cup]<br>[Details: CONDITIONS: ASTM D93] |
| Flammable Limits - LEL            | No Data Available  |
| Flammable Limits - UEL            | No Data Available  |
| 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:** Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA). Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture.

**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:** Observe precautions from other sections. 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. Contain spill. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water. Collect as much of the spilled material as possible. Clean up residue with detergent and water. Collect the resulting residue containing solution. Place in a closed container approved for transportation by appropriate authorities. 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

Avoid eye contact with vapors, mists, or spray. Avoid skin contact. Avoid breathing of vapors, mists or spray. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits. If ventilation is not adequate, use respiratory protection equipment. Do not ingest. 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. Ground containers securely when transferring contents. Wear low static or properly grounded shoes. Avoid static discharge. Avoid contact with oxidizing agents. Keep out of the reach of children.

### 7.2 STORAGE

Store away from acids. Store away from heat. Store away from oxidizing agents. Store out of direct sunlight. Keep container in well-ventilated area.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 ENGINEERING CONTROLS

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits and/or control mist, vapor, or spray. If ventilation is not adequate, use respiratory protection equipment. Provide local exhaust ventilation at transfer points. Provide appropriate local exhaust ventilation on open containers.

### 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. Gloves are not required.

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, Polyvinyl Alcohol (PVA).

#### 8.2.3 Respiratory Protection

Avoid breathing of vapors, mists or spray.

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 P100 particulate prefilters. Consult the current 3M Respiratory Selection Guide for additional information or call 1-800-243-4630 for 3M technical assistance. 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.

### 8.2.4 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> |
|---|------------------|--------------------|-----------------------|-------------------------------|
| ETHYL ACRYLATE  | ACGIH            | TWA                | 5 ppm                 | Table A4                      |
| ETHYL ACRYLATE  | ACGIH            | STEL               | 15 ppm                | Table A4                      |
| ETHYL ACRYLATE  | OSHA             | TWA                | 5 ppm                 | Skin Notation*; Table Z-1A    |
| ETHYL ACRYLATE  | OSHA             | STEL               | 25 ppm                | Skin Notation*; Table Z-1A    |
| FORMALDEHYDE  | ACGIH            | CEIL               | 0.3 ppm               | Sensitizer; Table A2          |
| FORMALDEHYDE  | OSHA             | TWA                | 0.5 ppm               | Standard Appendix             |
| HYDROTREATED LIGHT PETROLEUM DISTILLATES                              | CMRG             | TWA                | 300 ppm               |                               |
| OIL MIST, MINERAL   | ACGIH            | TWA, as mist       | 5 mg/m <sup>3</sup>   |                               |
| OIL MIST, MINERAL   | ACGIH            | STEL, as mist      | 10 mg/m <sup>3</sup>  |                               |
| OIL MIST, MINERAL   | OSHA             | TWA, as mist       | 5 mg/m <sup>3</sup>   | Table Z-1                     |
| STEARATES   | ACGIH            | TWA, as total dust | 10 mg/m <sup>3</sup>  | Table A4                      |
| TRIPOLI (CRYSTALLINE SILICA)  | ACGIH            | TWA, respirable    | 0.1 mg/m <sup>3</sup> |                               |
| TRIPOLI (CRYSTALLINE SILICA)  | OSHA             | TWA, respirable    | 0.1 mg/m <sup>3</sup> | Table Z-1A                    |
| VEGETABLE OIL MISTS   | OSHA             | TWA, as mist       | 10 mg/m <sup>3</sup>  | Table Z-1A                    |
| VEGETABLE OIL MISTS (EXCEPT CASTOR, CASHEW, OR SIMILAR IRRITANT OILS) | ACGIH            | TWA, as mist       | 10 mg/m <sup>3</sup>  |                               |

\* 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.

#### 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

|                                 |   |
|---------------------------------|---|
| <b>Specific Physical Form:</b>  | Paste   |
| <b>Odor, Color, Grade:</b>      | mild solvent odor, tan to beige color.  |
| <b>General Physical Form:</b>   | Liquid  |
| <b>Autoignition temperature</b> | <i>No Data Available</i>  |
| <b>Flash Point</b>              | 150 °F [ <i>Test Method:</i> Pensky-Martens Closed Cup] [ <i>Details:</i> CONDITIONS: ASTM D93] |
| <b>Flammable Limits - LEL</b>   | <i>No Data Available</i>  |
| <b>Flammable Limits - UEL</b>   | <i>No Data Available</i>  |
| <b>Boiling point</b>            | 150 - 212 °F  |
| <b>Density</b>                  | 9.3 - 9.8 lb/gal  |
| <b>Vapor Density</b>            | >=1.00 [ <i>Ref Std:</i> AIR=1]   |
| <b>Vapor Pressure</b>           | <=16 mmHg   |
| <b>Specific Gravity</b>         | 1.14 [ <i>Ref Std:</i> WATER=1]   |
| <b>pH</b>                       | 8.0 - 8.5   |
| <b>Melting point</b>            | <i>Not Applicable</i>   |

|                                |   |
|--------------------------------|---|
| Solubility in Water            | Appreciable   |
| Evaporation rate               | >=1 [Ref Std: WATER=1]                                  |
| Volatile Organic Compounds     | 1.84 lb/gal [Test Method: calculated SCAQMD rule 443.1] |
| Percent volatile               | 60 %  |
| VOC Less H2O & Exempt Solvents | 412 g/l [Test Method: calculated SCAQMD rule 443.1]     |
| Viscosity                      | 8000 - 25000 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

| <u>Substance</u> | <u>Condition</u> |
|------------------|------------------|
| Carbon monoxide  | Not Specified    |
| Carbon dioxide   | Not Specified    |

## 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 an industrial or commercial facility. As a disposal alternative, dispose of waste product in a facility permitted to accept chemical waste. Absorbed waste product may also be incinerated in an industrial or commercial facility in the presence of a combustible material.

**EPA Hazardous Waste Number (RCRA):** Not regulated

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

## SECTION 14: TRANSPORT INFORMATION

### ID Number(s):

60-9800-1768-9, 60-9800-2019-6, 60-9800-2020-4, 60-9800-2021-2, 60-9800-2581-5, 60-9800-2582-3, 60-9800-2583-1, 60-9800-3095-5, 60-9800-3096-3, 60-9800-3243-1, 60-9800-3263-9, 60-9800-3680-4, 60-9801-0693-8, 60-9801-0694-6

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> |
|---|-------------------|-----------------------|
| CHLOROTHALONIL  | 1897-45-6         | **Carcinogen          |
| ETHYL ACRYLATE  | 140-88-5          | **Carcinogen          |
| FORMALDEHYDE  | 50-00-0           | **Carcinogen          |
| SILICA, CRYSTALLINE (AIRBORNE PARTICLES OF RESPIRABLE SIZE) | NONE              | **Carcinogen          |

\*\* 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.

**Reason for Reissue:** The MSDS has been revised because 3M has adopted the 16-section ANSI/ISO format. The potential hazards of the product have not changed. We encourage you to reread the MSDS and review the information.

### Revision Changes:

Section 16: NFPA hazard classification for flammability was modified.

Copyright was modified.

Section 3: Immediate physical hazard(s) was modified.

Section 3: Potential effects from inhalation information was modified.

Section 3: Potential effects from ingestion information was modified.

Section 5: Fire fighting procedures information was modified.

Section 5: Unusual fire and explosion hazard information was modified.

Section 6: Release measures information was modified.

Section 7: Handling information was modified.

Section 7: Storage information was modified.

Section 8: Engineering controls information was modified.

Section 8: Skin protection phrase was modified.

Section 4: First aid for ingestion (swallowing) - decontamination - was modified.

Section 3: Immediate other hazard(s) was modified.

Section 2: Ingredient table was modified.

Section 15: Inventories information was modified.

Section 15: California proposition 65 ingredient information was modified.

Section 3: Carcinogenicity table was modified.

Section 8: Exposure guidelines ingredient information was modified.

Section 9: Density information was modified.

Section 9: Property description for optional properties was modified.

Section 9: pH information was modified.

Section 5: OSHA flammability heading was added.

Section 5: OSHA flammability data was added.

Section 8: Exposure guideline note was added.

**DISCLAIMER:** The information in this Material Safety Data Sheet (MSDS) is believed to be correct as of the date issued. 3M

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