# Material Safety Data Sheet

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**PRODUCT NAME:** 3M(TM) Automix(TM) SMC Fiberglass Repair Adhesive PN 08243
**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:** 01/11/2006
**Supercedes Date:** 07/14/2005

**Document Group:** 09-4736-6

**ID Number(s):**

60-9800-3738-0

**This product is a kit or a multipart product which consists of multiple, independently packaged components. An MSDS for each of these components is included. Please do not separate the component MSDSs from this cover page. The document numbers of the MSDSs for components of this product are:**

09-4734-1, 09-4735-8

Revision Changes:
Copyright was modified.

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# Material Safety Data Sheet

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## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** 3M(TM) Automix(TM) SMC Fiberglass Repair Adhesive PN 08243; Part A
**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
**Supercedes Date:** 01/11/2006

**Document Group:** 09-4734-1

**Product Use:**
Specific Use: Automotive Adhesive

## SECTION 2: INGREDIENTS

| Ingredient | C.A.S. No. | % by Wt |
|---|---|---|
| P,P'-METHYLENEBIS(PHENYL ISOCYANATE) | 101-68-8 | 15 - 40 |
| 4,4'-Diisocyanatodiphenylmethane polymer | 25686-28-6 | 10 - 30 |
| Urethane Prepolymer 1 | Trade Secret | 10 - 30 |
| TALC | 14807-96-6 | 7 - 13 |
| ALUMINOSILICIC ACID, CALCIUM SODIUM SALT | 1344-01-0 | 7 - 13 |
| Urethane Prepolymer 2 | Trade Secret | 3 - 7 |
| COLLOIDAL SILICA | 68611-44-9 | 2 - 7 |
| QUARTZ SILICA | 14808-60-7 | <= 0.12 |

## SECTION 3: HAZARDS IDENTIFICATION

### 3.1 EMERGENCY OVERVIEW

**Odor, Color, Grade:** White, slight isocyanate odor
**General Physical Form:** Liquid
**Immediate health, physical, and environmental hazards:** Reacts violently with water. Hazardous polymerization may occur. May cause allergic skin reaction. May cause allergic respiratory reaction. May cause target organ effects. Contains a chemical or chemicals which can cause cancer.

## 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.

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

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

Allergic Respiratory Reaction: Signs/symptoms may include difficulty breathing, wheezing, cough, and tightness of chest.

Prolonged or repeated exposure may cause:
Respiratory Effects: Signs/symptoms may include cough, shortness of breath, chest tightness, wheezing, increased heart rate, bluish colored skin (cyanosis), sputum production, changes in lung function tests, and/or respiratory failure.

During grinding, scraping, sanding:
Pneumoconiosis: Sign/symptoms may include persistent cough, breathlessness, chest pain, increased amounts of sputum, and changes in lung function tests.

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

**Target Organ Effects:**
Persons previously sensitized to isocyanates may develop a cross-sensitization reaction to other isocyanates.

**Carcinogenicity:**
Contains a chemical or chemicals which can cause cancer.

| Ingredient | C.A.S. No. | Class Description | Regulation |
|---|---|---|---|
| QUARTZ SILICA | 14808-60-7 | Group 1 | International Agency for Research on Cancer |
| QUARTZ SILICA | 14808-60-7 | Known human carcinogen | National Toxicology Program Carcinogens |

# 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** | >=200 ºF [*Test Method:* SETAFLASH] |
| **Flammable Limits - LEL** | *No Data Available* |
| **Flammable Limits - UEL** | *No Data Available* |
| **OSHA Flammability Classification:** | Not Applicable |

## 5.2 EXTINGUISHING MEDIA

DO NOT USE WATER 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).

**Unusual Fire and Explosion Hazards:** 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. Contain spill. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water. Pour isocyanate decontaminant solution (90% water, 8% concentrated ammonia, 2% detergent) on spill and allow to react for 10 minutes. Or pour water on spill and allow to react for more than 30 minutes. Cover with absorbent material. Place in a container approved for transportation by appropriate authorities, but do not seal the container for 48 hours to avoid pressure build-up. 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 contact with water to prevent potentially violent reaction or fire. Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Avoid contact with water. Avoid breathing of vapors, mists or spray. Avoid skin contact. Avoid eye contact with vapors, mists, or spray. Keep out of the reach of children. Avoid breathing of dust created by cutting, sanding, grinding or machining. 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.

## 7.2 STORAGE

Store away from acids. Store away from heat. Store out of direct sunlight. Store in a dry place.

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1 ENGINEERING CONTROLS

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. Do not use in a confined area or areas with little or no air movement. 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.

## 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: Butyl Rubber, Nitrile Rubber, Polyvinyl Alcohol (PVA).

### 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: Fullface air-purifying respirator with organic vapor/acid gas 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

| Ingredient | Authority | Type | Limit | Additional Information |
|---|---|---|---|---|
| FREE ISOCYANATES | 3M | TWA | 0.005 ppm | |
| FREE ISOCYANATES | 3M | STEL | 0.02 ppm | |
| P,P'-METHYLENEBIS(PHENYL ISOCYANATE) | ACGIH | TWA | 0.005 ppm | |
| P,P'-METHYLENEBIS(PHENYL ISOCYANATE) | OSHA | CEIL | 0.02 ppm | Table Z-1 |
| QUARTZ SILICA | ACGIH | TWA, respirable | 0.025 mg/m3 | Table A2 |

| | | | | |
|---|---|---|---|---|
| QUARTZ SILICA | OSHA | TWA, respirable | 0.1 mg/m3 | Table Z-1A |
| TALC | ACGIH | TWA, respirable | 2 mg/m3 | Table A4 |
| TALC | CMRG | TWA, as respirable dust | 0.5 mg/m3 | |
| TALC | OSHA | TWA, respirable | 2 mg/m3 | Table Z-1A |

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

| | |
|---|---|
| **Odor, Color, Grade:** | White, slight isocyanate odor |
| **General Physical Form:** | Liquid |
| **Autoignition temperature** | *No Data Available* |
| **Flash Point** | >=200 ºF [*Test Method:* SETAFLASH] |
| **Flammable Limits - LEL** | *No Data Available* |
| **Flammable Limits - UEL** | *No Data Available* |
| **Boiling point** | >=95 ºF [*Details:* MITS data] |
| **Density** | 10.72 lb/gal |
| **Vapor Density** | <=1.0 [*Ref Std:* AIR=1] |
| **Vapor Pressure** | .010 mmHg [@ 77 ºF] [*Details:* @77.00 F (for Product)] |
| **Specific Gravity** | 1.288 [*Ref Std:* WATER=1] |
| **pH** | *Not Applicable* |
| **Melting point** | *No Data Available* |
| **Solubility In Water** | *No Data Available* |
| **Evaporation rate** | <=1 [*Ref Std:* ETHER=1] |
| **Volatile Organic Compounds** | 0.00 lb/gal [*Test Method:* calculated SCAQMD rule 443.1] |
| **Percent volatile** | 0.0 % |
| **VOC Less H2O & Exempt Solvents** | 0.0 g/l [*Test Method:* calculated SCAQMD rule 443.1] |
| **Viscosity** | 15000 - 20000 centipoise [@ 73.4000000000 ºF] [*Details:* MITS data] |

## SECTION 10: STABILITY AND REACTIVITY

**Stability:** Stable.

**Materials and Conditions to Avoid:** Strong acids; Strong bases; Heat; Water; Sparks and/or flames

**Hazardous Polymerization:** Hazardous polymerization may occur.

### Hazardous Decomposition or By-Products

| Substance | Condition |
|---|---|

| | |
|---|---|
| Carbon monoxide | Not Specified |
| Carbon dioxide | Not Specified |
| Hydrogen Cyanide | Not Specified |
| Oxides of Nitrogen | 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:** Dispose of completely cured (or polymerized) wastes in a sanitary landfill.
As a disposal alternative, incinerate uncured product in an industrial or commercial incinerator. Combustion products will include HCl. Facility must be capable of handling halogenated materials.

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

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

## SECTION 14:TRANSPORT INFORMATION

LB-K100-0108-7

**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 - Yes Immediate Hazard - Yes Delayed Hazard - Yes

**Section 313 Toxic Chemicals subject to the reporting requirements of that section and 40 CFR part 372 (EPCRA):**

| Ingredient | C.A.S. No | % by Wt |
|---|---|---|
| P,P'-METHYLENEBIS(PHENYL ISOCYANATE) (Diisocyanates (EPCRA 313)) | 101-68-8 | 15 - 40 |

## STATE REGULATIONS
Contact 3M for more information.

**CALIFORNIA PROPOSITION 65**

| Ingredient | C.A.S. No. | Classification |
|---|---|---|
| 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.

Contact 3M for more information.

## INTERNATIONAL REGULATIONS
Contact 3M for more information.

**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:** 1 **Reactivity:** 1 **Special Hazards:** Reacts with Water

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 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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## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** 3M(TM) Automix(TM) Universal Adhesive PN 08223; 3M(TM) Automix(TM) SMC Fiberglass Repair Adhesive PN 08243; Part B (Base)
**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
**Supercedes Date:** 01/11/2006

**Document Group:** 09-4735-8

**Product Use:**
Specific Use: Automotive Adhesive

## SECTION 2: INGREDIENTS

| Ingredient | C.A.S. No. | % by Wt |
|---|---|---|
| POLYETHER POLYOL | Trade Secret | 30 - 60 |
| POLYOL | Trade Secret | 10 - 30 |
| TALC | 14807-96-6 | 10 - 30 |
| CLAY | 71011-26-2 | 1 - 5 |
| Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica | 68909-20-6 | 1 - 5 |
| ALUMINOSILICIC ACID, CALCIUM SODIUM SALT | 1344-01-0 | 1 - 5 |
| URETHANE PREPOLYMER | Trade Secret | 1 - 5 |
| QUARTZ SILICA | 14808-60-7 | <= 1.17 |

## SECTION 3: HAZARDS IDENTIFICATION

### 3.1 EMERGENCY OVERVIEW

**Odor, Color, Grade:** Green paste,
**General Physical Form:** Liquid
**Immediate health, physical, and environmental hazards:** Contains a chemical or chemicals which can cause cancer.

## 3.2 POTENTIAL HEALTH EFFECTS

**Eye Contact:**
During grinding, scraping, sanding:
Mechanical eye irritation: Signs/symptoms may include pain, redness, tearing and corneal abrasion.

**Skin Contact:**
During grinding, scraping, sanding:
Mechanical Skin irritation: Signs/symptoms may include abrasion, redness, pain, and itching.

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

During grinding, scraping, sanding:
Pneumoconiosis: Sign/symptoms may include persistent cough, breathlessness, chest pain, increased amounts of sputum, and changes in lung function tests.

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

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

**Carcinogenicity:**
Contains a chemical or chemicals which can cause cancer.

| Ingredient | C.A.S. No. | Class Description | Regulation |
|---|---|---|---|
| QUARTZ SILICA | 14808-60-7 | Group 1 | International Agency for Research on Cancer |
| QUARTZ SILICA | 14808-60-7 | Known human carcinogen | National Toxicology Program Carcinogens |

# 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:** Wash affected area with soap and water. If signs/symptoms develop, get medical attention.

**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** | > 200 ºF [*Test Method:* SETAFLASH] |
| **Flammable Limits - LEL** | *No Data Available* |
| **Flammable Limits - UEL** | *No Data Available* |
| **OSHA Flammability Classification:** | Not Applicable |

## 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 or foam may cause frothing. Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

**Unusual Fire and Explosion Hazards:** 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. 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. Contain spill. Collect as much of the spilled material as possible. 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

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Avoid breathing of vapors, mists or spray. Avoid prolonged or repeated skin contact. Avoid eye contact with vapors, mists, or spray. Keep out of the reach of children. Avoid breathing of dust created by cutting, sanding, grinding or machining. Avoid contact with oxidizing agents. 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.

## 7.2 STORAGE

Store away from acids. Keep container in well-ventilated area. Store away from oxidizing agents. Store in a cool, dry place.

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1 ENGINEERING CONTROLS

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. 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.

## 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. Avoid prolonged or repeated skin contact. When this base is used in combination with the accelerator follow the precautions outlined in the accelerator (3M Automix(TM) Universal Adhesive/Part A, P.N. 08222, 08223) Material Safety Data Sheet. When grinding or sanding the cured material follow recommended precautions for ventilation and respiratory protection given above.

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: Polyethylene.

### 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

| Ingredient | Authority | Type | Limit | Additional Information |
|---|---|---|---|---|
| QUARTZ SILICA | ACGIH | TWA, respirable | 0.025 mg/m3 | Table A2 |
| QUARTZ SILICA | OSHA | TWA, respirable | 0.1 mg/m3 | Table Z-1A |
| TALC | ACGIH | TWA, respirable | 2 mg/m3 | Table A4 |
| TALC | CMRG | TWA, as respirable dust | 0.5 mg/m3 | |
| TALC | OSHA | TWA, respirable | 2 mg/m3 | Table Z-1A |

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

| | |
|---|---|
| **Odor, Color, Grade:** | Green paste, |
| **General Physical Form:** | Liquid |
| **Autoignition temperature** | *No Data Available* |
| **Flash Point** | > 200 ºF [*Test Method:* SETAFLASH] |
| **Flammable Limits - LEL** | *No Data Available* |
| **Flammable Limits - UEL** | *No Data Available* |
| **Boiling point** | >=95 ºF [*Details:* MITS data] |
| **Density** | 10.2 lb/gal |
| **Vapor Density** | 1.0 [*Ref Std:* AIR=1] |
| **Vapor Pressure** | *No Data Available* |
| **Specific Gravity** | 1.225 [*Ref Std:* WATER=1] |
| **pH** | *Not Applicable* |
| **Melting point** | *No Data Available* |
| **Solubility In Water** | *No Data Available* |
| **Evaporation rate** | <=1.0 [*Ref Std:* ETHER=1] |
| **Volatile Organic Compounds** | 0 lb/gal [*Test Method:* calculated SCAQMD rule 443.1] |
| **Percent volatile** | 0 % |
| **VOC Less H2O & Exempt Solvents** | 0 g/l [*Test Method:* calculated SCAQMD rule 443.1] |
| **Viscosity** | 12000 - 16000 centipoise [@ 73.4000000000 ºF] [*Details:* MITS data] |

## SECTION 10: STABILITY AND REACTIVITY

**Stability:** Stable.

**Materials and Conditions to Avoid:** Strong acids; Strong bases; Strong oxidizing agents; Sparks and/or flames

**Hazardous Polymerization:** Hazardous polymerization will not occur.

### Hazardous Decomposition or By-Products

| Substance | Condition |
|---|---|
| Hydrocarbons | Not Specified |
| Carbon monoxide | Not Specified |
| Carbon dioxide | Not Specified |
| Oxides of Nitrogen | 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:** Dispose of completely cured (or polymerized) wastes in a sanitary landfill.
As a disposal alternative, incinerate uncured product in an industrial or commercial incinerator.

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

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

## SECTION 14:TRANSPORT INFORMATION

LB-K100-0108-8

**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**

| Ingredient | C.A.S. No. | Classification |
|---|---|---|
| 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.

Contact 3M for more information.

## INTERNATIONAL REGULATIONS

Contact 3M for more information.

**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:** 1 **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 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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