

### **Safety Data Sheet**

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### **SECTION 1: Identification**

**1.1. Product identifier** 3M<sup>™</sup> Diamond Compound UC, UCS

### 1.2. Recommended use and restrictions on use

### Recommended use

Abrasive polishing paste

### 1.3. Supplier's details

MÁNUFACTURER: DIVISION: ADDRESS: Telephone:

3MAbrasive Systems Division3M Center, St. Paul, MN 55144-1000, USA1-888-3M HELPS (1-888-364-3577)

### 1.4. Emergency telephone number

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

### **SECTION 2: Hazard identification**

### 2.1. Hazard classification

Not classified as hazardous according to OSHA Hazard Communication Standard, 29 CFR 1910.1200.

### **2.2. Label elements Signal word** Not applicable.

**Symbols** Not applicable.

**Pictograms** Not applicable.

21% of the mixture consists of ingredients of unknown acute oral toxicity.

93% of the mixture consists of ingredients of unknown acute inhalation toxicity.

### **SECTION 3: Composition/information on ingredients**

| Ingredient                     | C.A.S. No.  | % by Wt |  |
|--------------------------------|-------------|---------|--|
| Fatty Acid Ester               | 27194-74-7  | 70 - 80 |  |
| Diamond                        | 7782-40-3   | < 30    |  |
| Lubricant                      | 68783-37-9  | 5 - 15  |  |
| Chlorinated Olefins            | 68527-02-6  | < 10    |  |
| Fumed Silica, Crystalline Free | 112945-52-5 | < 10    |  |

### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

#### Inhalation:

Remove person to fresh air. If you feel unwell, get medical attention.

#### Skin Contact:

Wash with soap and water. If signs/symptoms develop, get medical attention.

#### Eye Contact:

Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, get medical attention.

#### If Swallowed:

No need for first aid is anticipated.

#### 4.2. Most important symptoms and effects, both acute and delayed

No critical symptoms or effects. See Section 11.1, information on toxicological effects.

### 4.3. Indication of any immediate medical attention and special treatment required

Not applicable

### **SECTION 5: Fire-fighting measures**

### 5.1. Suitable extinguishing media

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

### 5.2. Special hazards arising from the substance or mixture

None inherent in this product.

### Hazardous Decomposition or By-Products

<u>Substance</u> Carbon monoxide Carbon dioxide <u>Condition</u> During Combustion During Combustion

### **5.3. Special protective actions for fire-fighters**

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

### **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. 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. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

### **6.2.** Environmental precautions

Avoid release to the environment. For larger spills, cover drains and build dikes to prevent entry into sewer systems or

bodies of water.

### 6.3. Methods and material for containment and cleaning up

Contain spill. 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 physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. 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 SDS. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

### **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

Avoid breathing of dust created by cutting, sanding, grinding or machining. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.)

### 7.2. Conditions for safe storage including any incompatibilities

Store away from heat. Store away from acids. Store away from oxidizing agents.

### **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

### **Occupational exposure limits**

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

| Ingredient        | C.A.S. No. | Agency | Limit type              | Additional Comments |
|-------------------|------------|--------|-------------------------|---------------------|
| SILICA, AMORPHOUS | 112945-52- | OSHA   | TWA:20 millions of      |                     |
|                   | 5          |        | particles/cu. ft.;TWA   |                     |
|                   |            |        | concentration:0.8 mg/m3 |                     |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

OSHA : United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

### **8.2. Exposure controls**

### 8.2.1. Engineering controls

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

### **8.2.2.** Personal protective equipment (PPE)

### Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended: Safety Glasses with side shields

### Skin/hand protection

No chemical protective gloves are required.

### **Respiratory protection**

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for particulates

For questions about suitability for a specific application, consult with your respirator manufacturer.

### **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

| Appearance                              |                                 |
|---|---------------------------------|
| Physical state                          | Liquid                          |
| Color                                   | Multicolor                      |
|   |                                 |
| Odor                                    | Mild Odor, Characteristic Odor  |
| Odor threshold                          | No Data Available               |
| рН                                      | Not Applicable                  |
| Melting point                           | No Data Available               |
| Boiling Point                           | >=350 °F                        |
| Flash Point                             | >=320 °F                        |
| Evaporation rate                        | Nil                             |
| Flammability (solid, gas)               | Not Applicable                  |
| Flammable Limits(LEL)                   | No Data Available               |
| Flammable Limits(UEL)                   | No Data Available               |
| Vapor Pressure                          | Negligible                      |
| Vapor Density                           | No Data Available               |
| Density                                 | No Data Available               |
| Specific Gravity                        | 0.95 [ <i>Ref Std</i> :WATER=1] |
| Solubility in Water                     | Nil                             |
| Solubility- non-water                   | No Data Available               |
| Partition coefficient: n-octanol/ water | No Data Available               |
| Autoignition temperature                | No Data Available               |
| Decomposition temperature               | No Data Available               |
| Viscosity                               | No Data Available               |
| Volatile Organic Compounds              | 732.5 g/l                       |
| Percent volatile                        | 73.25 %                         |
| VOC Less H2O & Exempt Solvents          | 732.65 g/l                      |
| -                                       |                                 |

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

### 10.2. Chemical stability

Stable.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

**10.4. Conditions to avoid** Sparks and/or flames Heat

### **10.5. Incompatible materials**

Strong oxidizing agents Strong acids Alkali and alkaline earth metals

#### 10.6. Hazardous decomposition products

Condition

None known.

Substance

Refer to section 5.2 for hazardous decomposition products during combustion.

### **SECTION 11: Toxicological information**

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

### 11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

### Based on test data and/or information on the components, this material may produce the following health effects:

#### Inhalation:

May be harmful if inhaled. Dust from cutting, grinding, sanding or machining may cause irritation of the respiratory system. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

### **Skin Contact:**

Mechanical Skin irritation: Signs/symptoms may include abrasion, redness, pain, and itching.

### **Eye Contact:**

Mechanical eye irritation: Signs/symptoms may include pain, redness, tearing and corneal abrasion.

Dust created by cutting, grinding, sanding, or machining may cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

### **Ingestion:**

No known health effects.

### **Carcinogenicity:**

| Ingredient                                    | CAS No.    | Class Description             | Regulation                                  |
|---|------------|-------------------------------|---|
| Chlorinated Paraffins (C12, 60% Chlorine)     | 68527-02-6 | Anticipated human carcinogen  | National Toxicology Program Carcinogens     |
| Chlorinated paraffins of average carbon chain | 68527-02-6 | Grp. 2B: Possible human carc. | International Agency for Research on Cancer |
| length C12 and average degree of              |            |                               |   |
| chlorination approximately 60%                |            |                               |   |

### **Toxicological Data**

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

# Acute Toxicity Route Species Value

| Overall product                | Inhalation-<br>Dust/Mist(4<br>hr)     |        | No data available; calculated ATE >5 - =12.5 mg/l |
|--------------------------------|---------------------------------------|--------|---|
| Overall product                | Ingestion                             |        | No data available; calculated ATE >5,000 mg/kg    |
| Fatty Acid Ester               | Dermal                                |        | LD50 estimated to be > 5,000 mg/kg                |
| Fatty Acid Ester               | Ingestion                             | Rat    | LD50 > 34,600 mg/kg                               |
| Diamond                        | Dermal                                | Rat    | LD50 > 2,000 mg/kg                                |
| Diamond                        | Inhalation-<br>Dust/Mist<br>(4 hours) | Rat    | LC50 > 5.2 mg/l                                   |
| Diamond                        | Ingestion                             | Rat    | LD50 > 2,000 mg/kg                                |
| Fumed Silica, Crystalline Free | Dermal                                | Rabbit | LD50 > 5,000 mg/kg                                |
| Fumed Silica, Crystalline Free | Inhalation-<br>Dust/Mist<br>(4 hours) | Rat    | LC50 > 0.691 mg/l                                 |
| Fumed Silica, Crystalline Free | Ingestion                             | Rat    | LD50 > 5,110 mg/kg                                |

ATE = acute toxicity estimate

### **Skin Corrosion/Irritation**

| Name                           | Species   | Value                     |
|--------------------------------|-----------|---------------------------|
|                                | -         |                           |
| Fatty Acid Ester               | Rabbit    | Minimal irritation        |
| Diamond                        | Professio | No significant irritation |
|                                | nal       |                           |
|                                | judgeme   |                           |
|                                | nt        |                           |
| Fumed Silica, Crystalline Free | Rabbit    | No significant irritation |

### Serious Eye Damage/Irritation

| Name                           | Species   | Value                     |
|--------------------------------|-----------|---------------------------|
|                                |           |                           |
| Fatty Acid Ester               | similar   | Mild irritant             |
|                                | health    |                           |
|                                | hazards   |                           |
| Diamond                        | Professio | No significant irritation |
|                                | nal       |                           |
|                                | judgeme   |                           |
|                                | nt        |                           |
| Fumed Silica, Crystalline Free | Rabbit    | No significant irritation |

### **Skin Sensitization**

| Name                           | Species   | Value          |
|--------------------------------|-----------|----------------|
| Fatty Acid Ester               | Mouse     | Not classified |
| Diamond                        | Professio | Not classified |
|                                | nal       |                |
|                                | judgeme   |                |
|                                | nt        |                |
| Fumed Silica, Crystalline Free | Human     | Not classified |
|                                | and       |                |
|                                | animal    |                |

### **Respiratory Sensitization**

For the component/components, either no data are currently available or the data are not sufficient for classification.

### Germ Cell Mutagenicity

| Name                           | Route    | Value         |
|--------------------------------|----------|---------------|
|                                |          |               |
| Diamond                        | In Vitro | Not mutagenic |
| Fumed Silica, Crystalline Free | In Vitro | Not mutagenic |

### Carcinogenicity

| Name | Route | Species | Value |
|------|-------|---------|-------|
|      |       |         |       |

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| Fumed Silica, Crystalline Free | Not       | Mouse | Some positive data exist, but the data are not |
|--------------------------------|-----------|-------|--|
|                                | Specified |       | sufficient for classification                  |

### **Reproductive Toxicity**

### **Reproductive and/or Developmental Effects**

| Name                           | Route     | Value                                  | Species | Test Result              | Exposure<br>Duration        |
|--------------------------------|-----------|--|---------|--------------------------|-----------------------------|
| Fumed Silica, Crystalline Free | Ingestion | Not classified for female reproduction | Rat     | NOAEL 509<br>mg/kg/day   | 1 generation                |
| Fumed Silica, Crystalline Free | Ingestion | Not classified for male reproduction   | Rat     | NOAEL 497<br>mg/kg/day   | 1 generation                |
| Fumed Silica, Crystalline Free | Ingestion | Not classified for development         | Rat     | NOAEL 1,350<br>mg/kg/day | during<br>organogenesi<br>s |

### Target Organ(s)

### Specific Target Organ Toxicity - single exposure

For the component/components, either no data are currently available or the data are not sufficient for classification.

### Specific Target Organ Toxicity - repeated exposure

| Name                              | Route      | Target Organ(s)                   | Value          | Species | Test Result         | Exposure<br>Duration  |
|-----------------------------------|------------|-----------------------------------|----------------|---------|---------------------|-----------------------|
| Fumed Silica, Crystalline<br>Free | Inhalation | respiratory system  <br>silicosis | Not classified | Human   | NOAEL Not available | occupational exposure |

### **Aspiration Hazard**

For the component/components, either no data are currently available or the data are not sufficient for classification.

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

### **SECTION 12: Ecological information**

### **Ecotoxicological information**

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

### **Chemical fate information**

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

### **SECTION 13: Disposal considerations**

### **13.1. Disposal methods**

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

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

## **SECTION 14: Transport Information**

For Transport Information, please visit http://3M.com/Transportinfo or call 1-800-364-3577 or 651-737-6501.

### **SECTION 15: Regulatory information**

### **15.1. US Federal Regulations**

Contact 3M for more information.

### EPCRA 311/312 Hazard Classifications:

| Physical Hazards<br>Not applicable |
|------------------------------------|
| Not applicable                     |

Health Hazards

Not applicable

### This material contains a chemical which requires export notification under TSCA Section 12[b]:

| Ingredient (Category if applicable)<br>Chlorinated Olefins         | <u>C.A.S. No</u><br>68527-02-6 | Regulation<br>Toxic Substances Control Act (TSCA) 4<br>Test Rule Chemicals | Status<br>Applicable |
|--|--------------------------------|--|----------------------|
| <b>15.2. State Regulations</b><br>Contact 3M for more information. |                                |  |                      |

### **California Proposition 65**

| <u>Ingredient</u> | <u>C.A.S. No.</u> | <b>Listing</b> |
|-------------------|-------------------|----------------|
| Diethanolamine    | 111-42-2          | Carcinogen     |

### **15.3.** Chemical Inventories

The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

Contact 3M for more information.

### **15.4. International Regulations**

Contact 3M for more information.

This SDS 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 Instability: 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.

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