



## Safety Data Sheet

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|                        |            |                         |                |
|------------------------|------------|-------------------------|----------------|
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This Safety Data Sheet has been prepared in accordance with the GHS guidelines & India Hazardous substances (Classification, Labeling & Packaging) Draft Rules 2011.

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Abrasive Products, Finesse-it™ Imperial™ Wetordry™ Paper 401Q Sheets, Disc Rolls, PSA 800A-2500A

##### Product Identification Numbers

|                |                |                |                |                |
|----------------|----------------|----------------|----------------|----------------|
| 60-0000-6665-8 | 60-0000-6666-6 | 60-0000-6667-4 | 60-0000-6668-2 | 60-0000-7813-3 |
| 60-0003-0756-5 | 60-0003-0757-3 | 60-0003-0831-6 | 60-0003-0832-4 | 60-0003-2617-7 |
| 60-0003-2618-5 | 60-0003-2619-3 | 60-0003-2620-1 | 60-0003-2621-9 | 60-0003-5824-6 |
| 60-0003-5825-3 | 60-0003-5826-1 | 60-0003-5827-9 | 60-0003-5828-7 | 60-0003-5829-5 |
| 60-0003-5830-3 | 60-0003-5838-6 | 60-0003-5839-4 | 60-0003-5840-2 | 60-0003-5841-0 |
| 60-0003-5842-8 | 60-0003-5843-6 | 60-0003-5844-4 | 60-0003-5845-1 | 60-0003-5846-9 |
| 60-0003-5847-7 | 60-0003-5848-5 | 60-0003-6229-7 | 60-0100-1758-4 | 60-0100-1759-2 |
| 60-0100-1760-0 | 60-0100-1822-8 | 60-4402-3261-3 | 60-4402-3262-1 | 60-4402-3263-9 |
| 60-4402-3264-7 | 60-4402-3265-4 | 60-4402-3266-2 | 60-4402-3267-0 | 60-4402-3268-8 |
| 60-4402-3269-6 | 60-4402-3270-4 | 60-4402-3271-2 | 60-4402-3272-0 | 60-4402-3273-8 |
| 60-4402-3274-6 | 60-4402-3275-3 | 60-4402-3595-4 | 60-4402-9534-7 | 60-4402-9937-2 |
| 60-4402-9938-0 | 60-4402-9939-8 | 60-4402-9985-1 | 60-4402-9987-7 | 60-4404-0141-6 |
| 60-4404-0434-5 | 60-4404-0435-2 | 60-4404-0436-0 | 60-4404-0437-8 | 60-4404-0438-6 |
| GC-8009-1426-6 |                |                |                |                |

#### 1.2. Recommended use and restrictions on use

##### Recommended use

Abrasive Product, For industrial/occupational use only. Not for consumer sale or use.

#### 1.3. Supplier's details

|                   |   |
|-------------------|---|
| <b>Address:</b>   | 3M India Limited, plot-48-51, Electronic city, Hosur road, Bangalore-560100 |
| <b>Telephone:</b> | 080-45543000, contact Product EHS team                                      |
| <b>E Mail:</b>    | productehs.in@mmm.com   |
| <b>Website:</b>   | http://solutions.3mindia.co.in  |

#### 1.4. Emergency telephone number

080-45543000 (Contact hours: 8:00 AM to 5:00 PM)

### SECTION 2: Hazard identification

Under MSIHC Rules, information is noted below on flammability, acute toxicity and explosivity relevant to this product. In

line with international standards, information on other hazard classes and associated precautionary statements relevant to this product are included as well.

### 2.1. Classification of the substance or mixture

Not classified as hazardous according to UN GHS criteria.

### 2.2. Label elements

#### Signal Word

Not applicable.

#### Symbols

Not applicable

#### Pictograms

Not applicable

### 2.3. Other hazards

None known.

## SECTION 3: Composition/information on ingredients

This material is a mixture.

| Ingredient              | CAS Nbr   | % by Wt |
|-------------------------|-----------|---------|
| Paper Backing           | Mixture   | 65 - 90 |
| Silicon Carbide Mineral | 409-21-2  | 5 - 20  |
| Cured resin             | Mixture   | 5 - 20  |
| PSA                     | Mixture   | < 6     |
| Carbon black            | 1333-86-4 | < 0.15  |

## 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

Do not induce vomiting. Rinse mouth. If you feel unwell, get medical attention.

### 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**

Substance

Carbon monoxide.  
Carbon dioxide.

Condition

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**

For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Observe precautions from other sections.

**6.2. Environmental precautions**

Not applicable.

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

Not applicable.

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

For industrial/occupational use only. Not for consumer sale or use. Avoid breathing of dust created by sanding, grinding or machining. Damaged product can break apart during use and cause serious injury to face or eyes. Check product for damage such as cracks or nicks prior to use. Replace if damaged. Always wear eye and face protection when working at sanding or grinding operations or when near such operations. Combustible dust may form by action of this product on another material (substrate). Dust generated from the substrate during use of this product may be explosive if in sufficient concentration with an ignition source. Dust deposits should not be allowed to accumulate on surfaces because of the potential for secondary explosions.

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

No special storage requirements.

**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   | CAS Nbr   | Agency | Limit type                           | Additional comments          |
|--|-----------|--------|--------------------------------------|------------------------------|
| Carbon black   | 1333-86-4 | ACGIH  | TWA(inhalable fraction):3 mg/m3      | A3: Confirmed animal carcin. |
| Particles (insoluble or poorly soluble) not otherwise specified, inhalable particles | 409-21-2  | ACGIH  | TWA(inhalable particulates):10 mg/m3 |                              |
| Particles (insoluble or poorly   | 409-21-2  | ACGIH  | TWA(respirable particles):3          |                              |

|  |          |       |                                  |                             |
|--|----------|-------|----------------------------------|-----------------------------|
| soluble) not otherwise specified, respirable particles |          |       | mg/m3                            |                             |
| Silicon carbide, fibrous (including whiskers)          | 409-21-2 | ACGIH | TWA(as fiber):0.1 fiber/cc       | A2: Suspected human carcin. |
| Silicon carbide, nonfibrous, inhalable fraction        | 409-21-2 | ACGIH | TWA(inhalable fraction):10 mg/m3 |                             |
| Silicon carbide, nonfibrous, respirable fraction       | 409-21-2 | ACGIH | TWA(respirable fraction):3 mg/m3 |                             |

ACGIH : American Conference of Governmental Industrial Hygienists  
 AIHA : American Industrial Hygiene Association  
 CMRG : Chemical Manufacturer's Recommended Guidelines  
 TWA: Time-Weighted-Average  
 STEL: Short Term Exposure Limit  
 CEIL: Ceiling

**8.2. Exposure controls**

**8.2.1. Engineering controls**

Provide appropriate local exhaust ventilation for sanding, grinding or machining. 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/vapours/spray. If ventilation is not adequate, use respiratory protection equipment. Provide local exhaust at process emission sources to control exposure near the source and to prevent the escape of dust into the work area. It is recommended that all dust control equipment (such as local exhaust ventilation), process equipment, and material transport systems involved in handling of this product be evaluated for the need for explosion-protection safeguards. Recognized safeguards include explosion relief vents, explosion suppression systems, and oxygen deficient process environments.

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

**Eye/face protection**

To minimise the risk of injury to face and eyes, always wear eye and face protection when working at sanding or grinding operations or when near such operations. 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**

Wear appropriate gloves to minimise risk of injury to skin from contact with dust or physical abrasion from grinding or sanding.

**Respiratory protection**

Assess exposure concentrations of all materials involved in the work process. Consider material being abraded when determining the appropriate respiratory protection. Select and use appropriate respirators to prevent inhalation overexposure.

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**

|                       |        |
|-----------------------|--------|
| <b>Physical state</b> | Solid. |
| <b>Color</b>          | Gray   |

|   |                           |
|---|---------------------------|
| Odor  | Slight Polymeric          |
| Odour threshold                                   | <i>Not applicable.</i>    |
| pH  | <i>Not applicable.</i>    |
| Melting point/Freezing point: NA                  | <i>Not applicable.</i>    |
| Boiling point/Initial boiling point/Boiling range | <i>Not applicable.</i>    |
| Flash point                                       | <i>Not applicable.</i>    |
| Evaporation rate                                  | <i>Not applicable.</i>    |
| Flammability (solid, gas)                         | Not classified            |
| Flammable Limits(LEL)                             | <i>Not applicable.</i>    |
| Flammable Limits(UEL)                             | <i>Not applicable.</i>    |
| Vapor Density and/or Relative Vapor Density       | <i>Not applicable.</i>    |
| Relative density                                  | <i>Not applicable.</i>    |
| Water solubility                                  | <i>Not applicable.</i>    |
| Solubility- non-water                             | <i>Not applicable.</i>    |
| Partition coefficient: n-octanol/water            | <i>Not applicable.</i>    |
| Autoignition temperature                          | <i>Not applicable.</i>    |
| Decomposition temperature                         | <i>Not applicable.</i>    |
| Viscosity/Kinematic Viscosity                     | <i>Not applicable.</i>    |
| Volatile organic compounds (VOC)                  | <i>No data available.</i> |
| Percent volatile                                  | <i>No data available.</i> |
| VOC less H <sub>2</sub> O & exempt solvents       | <i>No data available.</i> |
| Molecular weight                                  | <i>No data available.</i> |

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

This material is considered to be non reactive under normal use conditions

### 10.2 Chemical stability

Stable.

### 10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur.

### 10.4 Conditions to avoid

None known.

### 10.5 Incompatible materials

None known.

### 10.6 Hazardous decomposition products

#### Substance

None known.

#### Condition

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 labelling, 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

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

#### Ingestion

No health effects are expected.

#### Additional information:

This document covers only the 3M product. For complete assessment, when determining the degree of hazard, the material being abraded must also be considered.

#### 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

| Name                    | Route     | Species | Value  |
|-------------------------|-----------|---------|--|
| Overall product         | Ingestion |         | No data available; calculated ATE >5,000 mg/kg |
| Silicon Carbide Mineral | Dermal    | Rat     | LD50 > 2,000 mg/kg                             |
| Silicon Carbide Mineral | Ingestion | Rat     | LD50 > 2,000 mg/kg                             |
| Carbon black            | Dermal    | Rabbit  | LD50 > 3,000 mg/kg                             |
| Carbon black            | Ingestion | Rat     | LD50 > 8,000 mg/kg                             |

ATE = acute toxicity estimate

#### Skin Corrosion/Irritation

| Name                    | Species | Value                     |
|-------------------------|---------|---------------------------|
| Silicon Carbide Mineral | Rat     | No significant irritation |
| Carbon black            | Rabbit  | No significant irritation |

#### Serious Eye Damage/Irritation

| Name                    | Species                | Value                     |
|-------------------------|------------------------|---------------------------|
| Silicon Carbide Mineral | Professional judgement | No significant irritation |
| Carbon black            | Rabbit                 | No significant irritation |

#### Sensitization:

#### Skin Sensitisation

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

### Respiratory Sensitisation

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

### Germ Cell Mutagenicity

| Name                    | Route    | Value  |
|-------------------------|----------|--|
| Silicon Carbide Mineral | In Vitro | Not mutagenic  |
| Carbon black            | In Vitro | Not mutagenic  |
| Carbon black            | In vivo  | Some positive data exist, but the data are not sufficient for classification |

### Carcinogenicity

| Name         | Route      | Species | Value            |
|--------------|------------|---------|------------------|
| Carbon black | Dermal     | Mouse   | Not carcinogenic |
| Carbon black | Ingestion  | Mouse   | Not carcinogenic |
| Carbon black | Inhalation | Rat     | Carcinogenic.    |

### Reproductive Toxicity

#### Reproductive and/or Developmental Effects

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

#### 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 Duration     |
|--------------|------------|-----------------|----------------|---------|---------------------|-----------------------|
| Carbon black | Inhalation | pneumoconiosis  | 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

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labelling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

### 12.1. Toxicity

#### Acute aquatic hazard:

Not acutely toxic to aquatic life by GHS criteria.

#### Chronic aquatic hazard:

Not chronically toxic to aquatic life by GHS criteria.

No product test data available.

| Material                | CAS Nbr   | Organism         | Type         | Exposure | Test endpoint                  | Test result                |
|-------------------------|-----------|------------------|--------------|----------|--------------------------------|----------------------------|
| Silicon Carbide Mineral | 409-21-2  | Green algae      | Experimental | 72 hours | No tox obs at lmt of water sol | >100 mg/l                  |
| Silicon Carbide Mineral | 409-21-2  | Water flea       | Experimental | 48 hours | No tox obs at lmt of water sol | >100 mg/l                  |
| Silicon Carbide Mineral | 409-21-2  | Water flea       | Experimental | 22 days  | No tox obs at lmt of water sol | 100 mg/l                   |
| Silicon Carbide Mineral | 409-21-2  | Redworm          | Experimental | 14 days  | LC50                           | >10,000 mg/kg (Dry Weight) |
| Carbon black            | 1333-86-4 | Green algae      | Experimental | 72 hours | No tox obs at lmt of water sol | >100 mg/l                  |
| Carbon black            | 1333-86-4 | Zebra Fish       | Experimental | 96 hours | No tox obs at lmt of water sol | >100 mg/l                  |
| Carbon black            | 1333-86-4 | Green algae      | Experimental | 72 hours | No tox obs at lmt of water sol | 100 mg/l                   |
| Carbon black            | 1333-86-4 | Activated sludge | Experimental | 3 hours  | NOEC                           | >800 mg/l                  |

**12.2. Persistence and degradability**

| Material                | CAS Nbr   | Test type                       | Duration | Study Type | Test result | Protocol |
|-------------------------|-----------|---------------------------------|----------|------------|-------------|----------|
| Silicon Carbide Mineral | 409-21-2  | Data not available-insufficient | N/A      | N/A        | N/A         | N/A      |
| Carbon black            | 1333-86-4 | Data not available-insufficient | N/A      | N/A        | N/A         | N/A      |

**12.3 : Bioaccumulative potential**

| Material                | CAS Nbr   | Test type   | Duration | Study Type | Test result | Protocol |
|-------------------------|-----------|---|----------|------------|-------------|----------|
| Silicon Carbide Mineral | 409-21-2  | Data not available or insufficient for classification | N/A      | N/A        | N/A         | N/A      |
| Carbon black            | 1333-86-4 | Data not available or insufficient for classification | N/A      | N/A        | N/A         | N/A      |

**12.4. Mobility in soil**

Please contact manufacturer for more details

**12.5 Other Adverse effects**

No information available.

**SECTION 13: Disposal considerations**

**13.1. Disposal methods**

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

The substrate that was abraded must be considered as a factor in the disposal method for this product. Prior to disposal, consult all applicable authorities and regulations to insure proper classification. Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. If no other disposal options are available, waste product may be placed in a landfill properly designed for industrial waste.

**SECTION 14: Transport Information**



Not hazardous for transportation.

#### **Air Transport (IATA) Regulations**

**UN No** Not applicable  
**Proper Shipping Name** Not applicable  
**Hazard Class/Division** Not applicable  
**Subsidiary Risk** Not applicable  
**Packing Group:** Not applicable

#### **Marine Transport (IMDG)**

**UN No** Not applicable  
**Proper Shipping Name** Not applicable  
**Hazard Class/Division** Not applicable  
**Subsidiary Risk** Not applicable  
**Packing Group:** Not applicable  
**Environmental Hazards:** Not applicable

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

#### **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

##### **Global inventory status**

Contact 3M for more information.

##### **Applicable Environmental, Health and Safety Regulations**

The Manufacture, Storage and Import of Hazardous Chemical Rules, 1989

The following ingredients are listed as hazardous on Part II of Schedule I of the India Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) rules

None.

The following ingredients are classified as hazardous based on the criteria listed under Part I of Schedule I of the India Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) rules:

Product is classified as Non Hazardous as per MSIHC Rules, 1989.

### **SECTION 16: Other information**

#### **NFPA Hazard Classification**

**Health:** 0    **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.

#### **Revision information:**

No revision information

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comply with all applicable regulatory requirements, including, but not limited to, product registrations/notifications, substance volume tracking, and potential substance registration/notification.

**3M India SDSs are available at <http://solutions.3mindia.co.in>**