

# **Safety Data Sheet**

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This Safety Data Sheet has been prepared in accordance with the Canadian Hazardous Products Regulations.

# **SECTION 1: Identification**

#### 1.1. Product identifier

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

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

#### **Intended Use**

Abrasive Product

### **Specific Use**

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

#### Restrictions on use

Not applicable

#### 1.3. Supplier's details

**Company:** 3M Canada Company **Division:** Abrasive Systems Division

Address: 1840 Oxford Street East, Post Office Box 5757, London, Ontario N6A 4T1

**Telephone:** (800) 364-3577 **Website:** www.3M.ca

#### 1.4. Emergency telephone number

Medical Emergency Telephone:1-800-3M HELPS / 1800 364 3577

# **SECTION 2: Hazard identification**

## 2.1. Classification of the substance or mixture

Not classified according to the Canadian Hazardous Products Regulation.

# 2.2. Label elements

#### Signal word

Not applicable.

### **Symbols**

Not applicable

# **Pictograms**

Not applicable

#### 2.3. Other hazards

None known.

17% of the mixture consists of ingredients of unknown acute oral toxicity.

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

This material is a mixture.

Ingredient	C.A.S. No.	% by Wt	Common Name
Paper Backing	Mixture	65 - 90	Not Applicable
Cured Resin	Mixture	5 - 20	Not Applicable
Silicon Carbide Mineral	409-21-2	5 - 20	Silicon carbide (SiC)
PSA	Mixture	< 6	Not Applicable
Carbon Black	1333-86-4	< 0.15	Carbon black

Paper Backing is a non-hazardous material according to WHMIS criteria. Specific information has been withheld as a trade secret.

Cured Resin is a non-hazardous material according to WHMIS criteria. Specific information has been withheld as a trade secret.

PSA is a non-hazardous material according to WHMIS criteria. Specific information has been withheld as a trade secret.

Carbon black is inextricably bound in this product. Exposure to carbon black is not expected during product use

# **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:

## 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. Unsuitable extinguishing media

None Determined

## 5.3. 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** 

# 5.4. Special protection 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

Use personal protective equipment based on the results of an exposure assessment. Refer to Section 8 for PPE recommendations. If anticipated exposure resulting from an accidental release exceeds the protective capabilities of the PPE listed in Section 8, or are unknown, select PPE that offers an appropriate level of protection. Consider the physical and chemical hazards of the material when doing so. Examples of PPE ensembles for emergency response could include wearing bunker gear for a release of flammable material; wearing chemical protective clothing if the spilled material is a corrosive, a sensitizer, a significant dermal irritant, or can be absorbed through the skin; or donning a positive pressure supplied-air respirator for chemicals with inhalation hazards. For information regarding physical and health hazards, refer to sections 2 and 11 of the SDS. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapours, 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 or professional 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	C.A.S. No.   Age	ncy   Limit type	Additional Comments
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Carbon Black	1333-86-4	ACGIH	TWA(inhalable fraction):3
			mg/m3
Particles (insoluble or poorly	409-21-2	ACGIH	TWA(inhalable
soluble) not otherwise specified,			particulates):10 mg/m3
inhalable particles			
Particles (insoluble or poorly	409-21-2	ACGIH	TWA(respirable particles):3
soluble) not otherwise specified,			mg/m3
respirable particles			
Silicon carbide, fibrous (including	409-21-2	ACGIH	TWA(as fiber):0.1 fiber/cc
whiskers)			
Silicon carbide, nonfibrous,	409-21-2	ACGIH	TWA(inhalable fraction):10
inhalable fraction			mg/m3
Silicon carbide, nonfibrous,	409-21-2	ACGIH	TWA(respirable fraction):3
respirable fraction			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. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).

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

## Eye/face protection

To minimize 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 minimize 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

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Physical state	Solid				
Colour	Gray				
Odour	Slight Resinous				
Odour threshold	Not Applicable				
pH	Not Applicable				
Melting point/Freezing point	Not Applicable				
Boiling point	Not Applicable				
Flash Point	Not Applicable				
Evaporation rate	Not Applicable				
Flammability	Not Applicable				
Flammable Limits(LEL)	Not Applicable				
Flammable Limits(UEL)	Not Applicable				
Relative Vapour Density	Not Applicable				
Relative density	Not Applicable				
Water solubility	Not Applicable				
Solubility- non-water	Not Applicable				
Partition coefficient: n-octanol/ water	Not Applicable				
Autoignition temperature	Not Applicable				
Decomposition temperature	Not Applicable				
Kinematic Viscosity	Not Applicable				
Volatile Organic Compounds	No Data Available				
Percent volatile	No Data Available				
VOC Less H2O & Exempt Solvents	No Data Available				
Molecular weight	No Data Available				
	· ·				

Particle Characteristics	Not Applicable

# **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 polymerization will not occur.

#### 10.4. Conditions to avoid

None known.

# 10.5. Incompatible materials

None known.

# 10.6. Hazardous decomposition products

**Substance** Condition

None known.

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:

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.

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

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.

#### **Carcinogenicity:**

<u>Ingredient</u>	CAS No.	Class Description	Regulation
Carbon black	1333-86-4	Grp. 2B: Possible human carc.	International Agency for Research on Cancer

#### **Additional Information:**

This document covers only the 3M product. For completeassessment, 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 Eve Damage/Irritation

Name	Species	Value
Silicon Carbide Mineral	Professio nal judgeme nt	No significant irritation
Carbon Black	Rabbit	No significant irritation

#### **Skin Sensitization**

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

# **Respiratory Sensitization**

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

Germ Cell Mutagenicity

Germ Cen Wutagementy		
Name	Route	Value
Silicon Carbide Mineral	In Vitro	Not mutagenic
Carbon Black	In Vitro	Not mutagenic  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**

No data 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 regulated per U.S. DOT, IATA or IMO.

These transportation classifications are provided as a customer service. As the shipper YOU remain responsible for complying with all applicable laws and regulations, including proper transportation classification and packaging. 3M's transportation classifications are based on product formulation, packaging, 3M policies and 3M's understanding of applicable current regulations. 3M does not guarantee the accuracy of this classification information. This information applies only to transportation classification and not the packaging, labeling, or marking requirements. The original 3M package is certified for Canadian ground shipment only. If you are shipping by air or ocean, the package may not meet applicable regulatory requirements.

# **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.

# **SECTION 16: Other information**

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.

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.

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