

### **Safety Data Sheet**

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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<sup>™</sup> Scotch-Brite<sup>™</sup> Laser Braze Finishing Wheel

**Product Identification Numbers** 61-5003-1456-4

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

#### **Recommended use** Abrasive Product

#### 1.3. Supplier's details

The second secon	
Address:	3M India Limited, plot-48-51, Electronic city, Hosur road, Bangalore-560100
Telephone:	080-45543000, contact Product EHS team
E Mail:	productehs.in@mmm.com
Website:	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 WARNING!

Symbols Health Hazard |

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#### **Pictograms**



# **2.3. Other hazards** None known.

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

This material is a mixture.

Ingredient	CAS Nbr	% by Wt	
Cured resin	Mixture	30 - 45	
Ceramic Aluminum Oxide (non-fibrous)	1344-28-1	25 - 40	
Silicon Carbide Mineral	409-21-2	10 - 15	
Nylon Fiber	Mixture	10 - 15	
Lubricant	8002-74-2	2 - 4	
Inorganic Fluoride	14075-53-7	1 - 3	
Filler	67762-90-7	1 - 2	
Carbon black	1333-86-4	0.01 - 0.8	
Titanium dioxide	13463-67-7	0 - 0.8	

### **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

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.

5.3. Special protective actions for fire-fighters

No special protective actions for fire-fighters are anticipated.

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

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

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

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	A3: Confirmed animal
			mg/m3	carcin.
Aluminum, insoluble compounds	1344-28-1	ACGIH	TWA(respirable fraction):1	A4: Not class. as human
			mg/m3	carcin
Titanium dioxide	13463-67-7	ACGIH	TWA:10 mg/m <sup>3</sup>	A4: Not class. as human
				carcin
Lubricant	8002-74-2	ACGIH	TWA(as fume):2 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

<u>Condition</u> During combustion. During combustion. 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. Warning: Excessive operating speed or generation of extreme heat may result in harmful emissions. Use local exhaust ventilation. Provide local exhaust at process emission sources to 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

Physical state	Solid.
Color	Multicolor
Odor	Slight Polymeric
Odour threshold	Not applicable.
рН	Not applicable.
Melting point/Freezing point: NA	Not applicable.
Boiling point/Initial boiling point/Boiling range	Not applicable.
Flash point	Not applicable.
Evaporation rate	Not applicable.
Flammability (solid, gas)	Not classified
Flammable Limits(LEL)	Not applicable.
Flammable Limits(UEL)	Not applicable.
Vapour pressure	Not applicable.

Vapor Density and/or Relative Vapor Density	Not applicable.
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.
Viscosity/Kinematic Viscosity	Not applicable.
Volatile organic compounds (VOC)	
Percent volatile	
VOC less H2O & exempt solvents	
Molecular weight	Not applicable.

#### Nanoparticles

This material contains nanoparticles.

### **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

<u>Substance</u>

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 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:

**Condition** 

#### 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 known health effects.

#### 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. This product contains titanium dioxide. Cancer of the lungs has been observed in rats that inhaled high levels of titanium dioxide. No exposure to inhaled titanium dioxide is expected during the normal handling and use this product. Titanium dioxide was not detected when air sampling was conducted under simulated conditions on similar types of materials that contain titanium dioxide. Therefore, the health effects associated with titanium dioxide are not expected during the normal use of this product.

#### **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.

Name	Route	Species	Value
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
Ceramic Aluminum Oxide (non-fibrous)	Dermal		LD50 estimated to be > 5,000 mg/kg
Ceramic Aluminum Oxide (non-fibrous)	Inhalation- Dust/Mist	Rat	LC50 > 2.3 mg/l
	(4 hours)		
Ceramic Aluminum Oxide (non-fibrous)	Ingestion	Rat	LD50 > 5,000 mg/kg
Silicon Carbide Mineral	Dermal	Rat	LD50 > 2,000 mg/kg
Silicon Carbide Mineral	Ingestion	Rat	LD50 > 2,000 mg/kg
Lubricant	Dermal	Rat	LD50 > 5,000 mg/kg
Lubricant	Ingestion	Rat	LD50 > 5,000 mg/kg
Inorganic Fluoride	Dermal		LD50 estimated to be > 5,000 mg/kg
Inorganic Fluoride	Inhalation-	Rat	LC50 > 5.3 mg/l
	Dust/Mist		
	(4 hours)		
Inorganic Fluoride	Ingestion	Rat	LD50 5,854 mg/kg
Filler	Dermal	Rabbit	LD50 > 5,000 mg/kg
Filler	Inhalation-	Rat	LC50 > 0.691 mg/l
	Dust/Mist		
	(4 hours)		
Filler	Ingestion	Rat	LD50 > 5,110 mg/kg
Titanium dioxide	Dermal	Rabbit	LD50 > 10,000 mg/kg
Titanium dioxide	Inhalation-	Rat	LC50 > 6.82 mg/l
	Dust/Mist		
	(4 hours)		
Titanium dioxide	Ingestion	Rat	LD50 > 10,000 mg/kg
Carbon black	Dermal	Rabbit	LD50 > 3,000 mg/kg
Carbon black	Ingestion	Rat	LD50 > 8,000 mg/kg

### Acute Toxicity

ATE = acute toxicity estimate

#### Skin Corrosion/Irritation

Name Species Value
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Ceramic Aluminum Oxide (non-fibrous)	Rabbit	No significant irritation
Silicon Carbide Mineral	Rat	No significant irritation
Lubricant	Rabbit	No significant irritation
Inorganic Fluoride	Rabbit	No significant irritation
Filler	Rabbit	No significant irritation
Titanium dioxide	Rabbit	No significant irritation
Carbon black	Rabbit	No significant irritation

#### Serious Eye Damage/Irritation

Name	Species	Value	
Ceramic Aluminum Oxide (non-fibrous)	Rabbit	No significant irritation	
Silicon Carbide Mineral	Professio	No significant irritation	
	nal	-	
	judgemen		
	t		
Lubricant	Rabbit	No significant irritation	
Inorganic Fluoride	Rabbit	No significant irritation	
Filler	Rabbit	No significant irritation	
Titanium dioxide	Rabbit	No significant irritation	
Carbon black	Rabbit	No significant irritation	

#### Sensitization:

#### **Skin Sensitisation**

Name	Species	Value
Lubricant	Guinea	Not classified
	pig	
Filler	Human	Not classified
	and	
	animal	
Titanium dioxide	Human	Not classified
	and	
	animal	

#### **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
Ceramic Aluminum Oxide (non-fibrous)	In Vitro	Not mutagenic
Lubricant	In Vitro	Not mutagenic
Filler	In Vitro	Not mutagenic
Titanium dioxide	In Vitro	Not mutagenic
Titanium dioxide	In vivo	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
Ceramic Aluminum Oxide (non-fibrous)	Inhalation	Rat	Not carcinogenic
Lubricant	Ingestion	Rat	Not carcinogenic
Filler	Not specified.	Mouse	Some positive data exist, but the data are not sufficient for classification
Titanium dioxide	Ingestion	Multiple animal species	Not carcinogenic
Titanium dioxide	Inhalation	Rat	Carcinogenic.

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Carbon black	Dermal	Mouse	Not carcinogenic
Carbon black	Ingestion	Mouse	Not carcinogenic
Carbon black	Inhalation	Rat	Carcinogenic.

#### **Reproductive Toxicity**

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

Name	Route	Value	Species	Test result	Exposure Duration
Filler	Ingestion	Not classified for female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
Filler	Ingestion	Not classified for male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
Filler	Ingestion	Not classified for development	Rat	NOAEL 1,350 mg/kg/day	during organogenesis

#### 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.

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Ceramic Aluminum Oxide (non-fibrous)	Inhalation	pneumoconiosis	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	occupational exposure
Ceramic Aluminum Oxide (non-fibrous)	Inhalation	pulmonary fibrosis	Not classified	Human	NOAEL Not available	occupational exposure
Lubricant	Ingestion	heart	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 15 mg/kg/day	90 days
Lubricant	Ingestion	hematopoietic system   liver   immune system   skin   endocrine system   bone, teeth, nails, and/or hair   muscles   nervous system   eyes   kidney and/or bladder   respiratory system   vascular system	Not classified	Rat	NOAEL 1,500 mg/kg/day	90 days
Filler	Inhalation	respiratory system   silicosis	Not classified	Human	NOAEL Not available	occupational exposure
Titanium dioxide	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 0.01 mg/l	2 years
Titanium dioxide	Inhalation	pulmonary fibrosis	Not classified	Human	NOAEL Not available	occupational exposure
Carbon black	Inhalation	pneumoconiosis	Not classified	Human	NOAEL Not available	occupational exposure

#### Specific Target Organ Toxicity - repeated 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	Туре	Exposure	Test endpoint	Test result
Ceramic	1344-28-1		Experimental	96 hours	LC50	>100 mg/l
Aluminum			_			
Oxide (non-						
fibrous)						
Ceramic	1344-28-1	Green algae	Experimental	72 hours	EC50	>100 mg/l
Aluminum						
Oxide (non-						
fibrous)						
Ceramic	1344-28-1	Water flea	Experimental	48 hours	LC50	>100 mg/l
Aluminum						
Oxide (non-						
fibrous)						
Ceramic	1344-28-1	Green algae	Experimental	72 hours	NOEC	>100 mg/l
Aluminum						
Oxide (non-						
fibrous)						
Silicon Carbide	409-21-2	Water flea	Experimental	22 days	NOEC	100 mg/l
Mineral						
Lubricant	8002-74-2	Green algae	Estimated	96 hours	EC50	>1,000 mg/l
Lubricant	8002-74-2	Rainbow trout	Estimated	96 hours	LC50	>1,000 mg/l
Lubricant	8002-74-2	Water flea	Estimated	48 hours	EC50	>10,000 mg/l
Inorganic	14075-53-7	Golden Orfe	Experimental	96 hours	LC50	760 mg/l
Fluoride						
Inorganic	14075-53-7	Green Algae	Experimental	72 hours	EC50	>100 mg/l
Fluoride						
Inorganic	14075-53-7	Water flea	Experimental	48 hours	EC50	>100 mg/l
Fluoride						
Inorganic	14075-53-7	Water flea	Estimated	21 days	NOEC	188 mg/l
Fluoride						
Inorganic	14075-53-7	Green Algae	Experimental	72 hours	NOEC	100 mg/l
Fluoride						
Filler	67762-90-7		Data not			
			available or			
			insufficient for			
			classification			
Carbon black	1333-86-4		Data not			
			available or			
			insufficient for			

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			classification			
Titanium	13463-67-7	Diatom	Experimental	72 hours	EC50	>10,000 mg/l
dioxide						
Titanium	13463-67-7	Fathead	Experimental	96 hours	LC50	>100 mg/l
dioxide		minnow				
Titanium	13463-67-7	Water flea	Experimental	48 hours	EC50	>100 mg/l
dioxide			-			_
Titanium	13463-67-7	Diatom	Experimental	72 hours	NOEC	5,600 mg/l
dioxide			_			_

# 12.2. Persistence and degradability

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Ceramic Aluminum Oxide (non- fibrous)	1344-28-1	Data not available- insufficient			N/A	
Silicon Carbide Mineral	409-21-2	Data not available- insufficient			N/A	
Lubricant	8002-74-2	Estimated Biodegradation	28 days	BOD	40 % weight	OECD 301F - Manometric respirometry
Inorganic Fluoride	14075-53-7	Data not available- insufficient			N/A	
Filler	67762-90-7	Data not available- insufficient			N/A	
Carbon black	1333-86-4	Data not available- insufficient			N/A	
Titanium dioxide	13463-67-7	Data not available- insufficient			N/A	

### **12.3 : Bioaccumulative potential**

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Ceramic Aluminum	1344-28-1	Data not available or	N/A	N/A	N/A	N/A
Oxide (non- fibrous)		insufficient for classification				
Silicon Carbide Mineral	409-21-2	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Lubricant	8002-74-2	Estimated Bioconcentrati on		Log Kow	10.2	Estimated: Octanol- water partition coefficient
Inorganic Fluoride	14075-53-7	Data not available or insufficient for classification	N/A	N/A	N/A	N/A

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Filler	67762-90-7	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
Titanium dioxide	13463-67-7	Experimental BCF-Carp	42 days	Bioaccumulatio n factor	9.6	Other methods

#### 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.

Prior to disposal, consult all applicable authorities and regulations to insure proper classification. The substrate that was abraded must be considered as a factor in the disposal method for this product. 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. 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 Classs/Division Not applicable Subsidiary Risk Not applicable Packing Group: Not applicable

#### Marine Transport (IMDG)

UN No Not applicable Proper Shipping Name Not applicable Hazard Classs/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.

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

The Manufacture, Storage and Import of Hazardous Chemical Rules, 1989 Hazardous Waste(Management, Handling & Transboundary) Rules, 2008

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 Lubricant

### **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

DISCLAIMER: The information on this Safety Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications.

#### 3M India SDSs are available at http://solutions.3mindia.co.in