

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

3MTM Scotch-BriteTM Products, Surface Conditioning S SFN Discs (includes RolocTM, TN, TP, TR, TS, TSM), Sheets, Rolls, Scrim Belts

Product Identification Numbers

44-0001-0647-4	44-0001-7648-5	61-0000-0351-9	61-0000-0560-5	61-0000-0569-6
61-0000-1045-6	61-0000-1265-0	61-0000-1419-3	61-0000-1676-8	61-0000-5059-3
61-5000-1310-9	61-5000-1311-7	61-5000-1312-5	61-5000-1313-3	61-5000-2706-7
61-5000-2707-5	61-5000-2708-3	61-5000-2709-1	61-5000-2711-7	61-5000-2712-5
61-5000-3114-3	61-5000-3168-9	61-5000-3748-8	61-5000-3917-9	61-5000-3918-7
61-5000-4936-8	61-5000-5236-2	61-5000-5252-9	61-5000-5256-0	61-5000-5282-6
61-5000-5290-9	61-5000-6455-7	61-5000-6457-3	61-5000-6458-1	61-5000-7232-9
61-5000-7267-5	61-5000-8009-0	61-5000-8364-9	61-5000-8365-6	61-5000-8384-7
61-5000-9045-3	61-5000-9136-0	61-5001-0330-6	61-5001-0336-3	61-5001-1960-9
61-5001-1969-0	61-5001-2025-0	61-5001-2027-6	61-5001-2029-2	61-5001-2035-9
61-5001-2107-6	61-5001-2108-4	61-5001-2109-2	61-5001-2123-3	61-5001-2572-1
61-5001-3390-7	61-5001-3914-4	61-5001-4087-8	61-5001-4174-4	61-5001-4181-9
61-5001-4199-1	61-5001-5110-7	61-5001-5120-6	61-5001-6054-6	61-5001-6105-6
61-5001-6498-5	61-5001-6499-3	61-5001-6573-5	61-5001-7042-0	61-5001-7043-8
61-5001-9092-3	61-5002-9187-9	61-5002-9188-7	61-5002-9189-5	61-5002-9190-3
61-5002-9385-9	61-5002-9648-0	61-5002-9752-0	61-5002-9857-7	61-5003-0281-7

1.2. Recommended use and restrictions on use

Intended Use

Abrasive Product

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 / 1-800-364-3577; Transportation Emergency Telephone (CANUTEC): (613) 996-6666

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.

40% 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
Silicon Carbide Mineral	409-21-2	30 - 45	Silicon carbide (SiC)
Cured Resin	Mixture	20 - 40	Not Applicable
Nylon Fiber	Mixture	10 - 25	Not Applicable
Nylon Scrim	Mixture	5 - 10	Not Applicable
Roloc [™] TN, TP, TR, TS, or	Mixture	0 - 5	Not Applicable
TSM Metal Attachment			
Lubricant	68991-84-4	0.5 - 2	No Data Available
Poly Vinyl Chloride	9002-86-2	0.5 - 2	Ethene, chloro-, homopolymer
Titanium Dioxide	13463-67-7	0 - 0.21335	Titanium oxide (TiO2)
Quartz Silica	14808-60-7	0.01 - 0.12	Quartz (SiO2)
Additive	68515-49-1	0 - 0.1	1,2-Benzenedicarboxylic acid, di-C9-11-
			branched alkyl esters, C10-rich
Carbon Black	1333-86-4	0 - 0.1	Carbon black

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.

Eve 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

Condition

During Combustion
During Combustion

5.3. Special protective actions for fire-fighters

Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

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

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.	Agency	Limit type	Additional Comments
Carbon Black	1333-86-4	ACGIH	TWA(inhalable fraction):3	
			mg/m3	
Titanium Dioxide	13463-67-7	ACGIH	TWA:10 mg/m3	
Quartz Silica	14808-60-7	ACGIH	TWA(respirable	
			fraction):0.025 mg/m3	
Poly Vinyl Chloride	9002-86-2	ACGIH	TWA(respirable fraction):1	
			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. 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 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

information on basic physical and chemical properties				
Physical state	Solid			
Colour	Multicolour			
Odour	Slight Polymeric			
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 (solid, gas)	Not Classified			
Flammable Limits(LEL)	Not Applicable			
Flammable Limits(UEL)	Not Applicable			
Vapour Pressure	Not Applicable			
Viscosity/Kinematic Viscosity Viscosity/Kinematic	Not Applicable			
Viscosity				
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				
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 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.

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.

Carcinogenicity:

<u>Ingredient</u>	CAS No.	Class Description	Regulation
SILICA, CRYS AIRRESP	14808-60-7	Known human carcinogen	National Toxicology Program Carcinogens
Carbon Black	1333-86-4	Grp. 2B: Possible human carc.	International Agency for Research on Cancer
Quartz Silica	14808-60-7	Grp. 1: Carcinogenic to humans	International Agency for Research on Cancer
Titanium Dioxide	13463-67-7	Grp. 2B: Possible human carc.	International Agency for Research on Cancer

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 and quartz (crystalline) silica. Cancer of the lungs has been associated with inhalation of high levels of titanium dioxide in animal studies, and occupational exposure to inhaled quartz silica has been associated with silicosis and lung cancer. No exposure to titanium dioxide or quartz silica is expected during the normal handling and use of this product. Titanium dioxide and quartz silica were not detected when air sampling was conducted during simulated use of similar products containing these substances. Therefore, the health effects associated with titanium dioxide and quartz (crystalline) silica 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.

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
Poly Vinyl Chloride	Dermal		LD50 estimated to be > 5,000 mg/kg
Poly Vinyl Chloride	Ingestion		LD50 estimated to be > 5,000 mg/kg
Titanium Dioxide	Dermal	Rabbit	LD50 > 10,000 mg/kg
Titanium Dioxide	Inhalation- Dust/Mist (4 hours)	Rat	LC50 > 6.82 mg/l
Titanium Dioxide	Ingestion	Rat	LD50 > 10,000 mg/kg
Quartz Silica	Dermal		LD50 estimated to be > 5,000 mg/kg
Quartz Silica	Ingestion		LD50 estimated to be > 5,000 mg/kg
Additive	Dermal	Rabbit	LD50 > 3,160 mg/kg
Carbon Black	Dermal	Rabbit	LD50 > 3,000 mg/kg
Additive	Inhalation-	Rat	LC50 > 12.5 mg/l
	Dust/Mist		
	(4 hours)		
Additive	Ingestion	Rat	LD50 > 9,700 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
Poly Vinyl Chloride	Professio	No significant irritation
	nal	
	judgeme	
	nt	
Titanium Dioxide	Rabbit	No significant irritation
Quartz Silica	Professio	No significant irritation
	nal	
	judgeme	
	nt	
Additive	Rabbit	Minimal irritation
Carbon Black	Rabbit	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
Silicon Carbide Mineral	Professio nal judgeme nt	No significant irritation
Titanium Dioxide	Rabbit	No significant irritation
Additive	Rabbit	Mild irritant
Carbon Black	Rabbit	No significant irritation

Skin Sensitization

Name	Species	Value
Titanium Dioxide	Human	Not classified
	and	
	animal	
Additive	Guinea	Not classified
	nig	

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

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Poly Vinyl Chloride	In Vitro	Not mutagenic
Titanium Dioxide	In Vitro	Not mutagenic
Titanium Dioxide	In vivo	Not mutagenic
Quartz Silica	In Vitro	Some positive data exist, but the data are not sufficient for classification
Quartz Silica	In vivo	Some positive data exist, but the data are not sufficient for classification
Additive	In Vitro	Not mutagenic
Additive	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
Poly Vinyl Chloride	Not	Rat	Some positive data exist, but the data are not
	Specified		sufficient for classification
Titanium Dioxide	Ingestion	Multiple	Not carcinogenic
		animal	
		species	
Titanium Dioxide	Inhalation	Rat	Carcinogenic
Quartz Silica	Inhalation	Human	Carcinogenic
		and	
		animal	
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
Poly Vinyl Chloride	Not Specified	Not classified for development	Mouse	NOAEL Not available	during gestation
Additive	Ingestion	Not classified for female reproduction	Rat	NOAEL 927 mg/kg/day	2 generation
Additive	Ingestion	Not classified for male reproduction	Rat	NOAEL 929 mg/kg/day	2 generation
Additive	Ingestion	Toxic to development	Rat	NOAEL 38 mg/kg/day	2 generation

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
Poly Vinyl Chloride	Inhalation	respiratory system	Not classified	Multiple animal species	NOAEL 0.013 mg/l	22 months
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
Quartz Silica	Inhalation	silicosis	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	occupational exposure
Additive	Inhalation	respiratory system hematopoietic system liver	Not classified	Rat	NOAEL 0.5 mg/l	2 weeks

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Additive	Inhalation	kidney and/or	Not classified	Rat	NOAEL 0.5	2 generation
		bladder			mg/l	
Additive	Ingestion	endocrine system	Not classified	Rat	NOAEL 686	90 days
					mg/kg/day	
Additive	Ingestion	liver kidney and/or	Not classified	Rat	NOAEL 500	90 days
	_	bladder heart			mg/kg/day	-
Additive	Ingestion	hematopoietic	Not classified	Dog	NOAEL 320	90 days
		system			mg/kg/day	
Carbon Black	Inhalation	pneumoconiosis	Not classified	Human	NOAEL Not	occupational
					available	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. 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.

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.

HMIS Hazard Classification

Health: 0 Flammability: 1 Physical Hazard: 0 Personal Protection: X - See PPE section.

Hazardous Material Identification System (HMIS® IV) hazard ratings are designed to inform employees of chemical hazards in the workplace. These ratings are based on the inherent properties of the material under expected conditions of normal use and are not intended for use in emergency situations. HMIS® IV ratings are to be used with a fully implemented HMIS® IV program. HMIS® is a registered mark of the American Coatings Association (ACA).

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3M Canada SDSs are available at www.3M.ca

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