



Safety Data Sheet

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SECTION 1: Identification

1.1. Product identifier

3M™ Scotch-Brite™ Durable Flex (DF) Belts, A FIN, A MED, A CRS

Product identification numbers

44-0001-7820-0	44-0001-7873-9	44-0001-7877-0	61-0000-5055-1	61-0000-5056-9
61-0000-5057-7	61-5002-9580-5	61-5002-9581-3	61-5002-9582-1	61-5002-9583-9
61-5002-9584-7	61-5002-9585-4	61-5002-9586-2	61-5002-9587-0	61-5002-9588-8
61-5002-9589-6	61-5002-9590-4	61-5002-9591-2	61-5002-9592-0	61-5002-9593-8
61-5002-9594-6	61-5002-9595-3	61-5002-9596-1	61-5002-9597-9	61-5002-9598-7
61-5002-9599-5	61-5002-9600-1	61-5002-9601-9	61-5002-9602-7	61-5002-9603-5
61-5002-9604-3	61-5002-9605-0	61-5002-9606-8	61-5002-9607-6	61-5002-9608-4
61-5002-9609-2	61-5002-9610-0	61-5002-9611-8	61-5002-9612-6	61-5002-9613-4
61-5002-9626-6	61-5002-9627-4	61-5002-9628-2	61-5002-9658-9	61-5002-9659-7
61-5002-9660-5	61-5002-9858-5	61-5002-9859-3	61-5002-9860-1	61-5002-9979-9

1.2. Recommended use and restrictions on use

Recommended use

Abrasive Product

1.3 Supplier's details

ADDRESS: Rodovia Anhanguera, Km 110 - 13181-900 - Sumaré - SP - Brazil
Telephone: 8000132333
E Mail: faleconosco@mmm.com
Website: www.3M.com.br

1.4. Emergency telephone number

(19) 3838 7333

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Product is not classified as hazardous according to ABNT NBR 14725-2

2.2. Label elements

SIGNAL WORD

Not applicable.

Symbols

Not applicable.

3M™ Scotch-Brite™ Durable Flex (DF) Belts, A FIN, A MED, A CRS

Pictograms

Not applicable.

SECTION 3: Composition/information on ingredients

This material is a mixture.

Ingredient	C.A.S. No.	% by Wt
Aluminum Oxide Mineral	1344-28-1	20 - 60
Titanium Dioxide	13463-67-7	0.1 - 2
Lubricant	Trade Secret	0.25 - 1.5
Cured Resin	Mixture	5 - 35
Nylon Fiber	Mixture	2 - 15
Cloth Backing	Mixture	5 - 20

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.

5.2. Special hazards arising from the substance or mixture

None inherent in this product.

Hazardous Decomposition or By-Products

Substance

Amine Compounds

Carbon monoxide

Carbon dioxide

Ammonia

Condition

During Combustion

During Combustion

During Combustion

During Combustion

5.3. Special protective actions for fire-fighters

No unusual fire or explosion hazards are anticipated.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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.

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 cutting, sanding, grinding or machining. For industrial or professional use only.

7.2. Conditions for safe storage including any incompatibilities

Store away from heat. Keep from freezing. Protect from moisture.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ingredient	C.A.S. No.	Agency	Limit type	Additional Comments
Aluminum Oxide Mineral	1344-28-1	Chemical Manufacturer Rec Guid	TWA:1 fiber/cc	
Titanium Dioxide	13463-67-7	Chemical Manufacturer Rec Guid	TWA(as respirable dust):5 mg/m3	

Brazil OELs : Brazil. (NR - 15, Annex 11) Hazardous Chemical Agents for which Occupational Exposure and Inspection Limits have been Established
Chemical Manufacturer Rec Guid : Chemical Manufacturer's Recommended Guidelines

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

ppm: parts per million

mg/m3: milligrams per cubic metre

CELL: 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

Wear eye/face protection.

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The following eye 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

In case of inadequate ventilation wear 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

Physical state	Solid
Appearance/Odor	Solid Abrasive Product
Odor threshold	<i>Not Applicable</i>
pH	<i>Not Applicable</i>
Melting point/Freezing point	<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 Pressure	<i>Not Applicable</i>
Vapor Density	<i>Not Applicable</i>
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	<i>Not Applicable</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 polymerization will not occur.

10.4 Conditions to avoid

None known

10.5 Incompatible materials

None known

10.6 Hazardous decomposition products

<u>Substance</u>	<u>Condition</u>
None known.	

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 health effects are expected.

Additional Information:

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

3M™ Scotch-Brite™ Durable Flex (DF) Belts, A FIN, A MED, A CRS**Acute Toxicity**

Name	Route	Species	Value
Overall product	Ingestion		Data not available or insufficient for classification; calculated ATE > 5,000 mg/kg
Aluminum Oxide Mineral	Inhalation-Dust/Mist (4 hours)	Rabbit	LC50 > 1.9 mg/l
Aluminum Oxide Mineral	Ingestion	Rat	LD50 > 5,000 mg/kg
Titanium Dioxide	Dermal	Rabbit	LD50 > 10,000 mg/kg
Titanium Dioxide	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 6.8 mg/l
Titanium Dioxide	Ingestion	Rat	LD50 > 10,000 mg/kg
Lubricant	Dermal	Rabbit	LD50 > 5,000 mg/kg
Lubricant	Inhalation-Dust/Mist (4 hours)	Rat	LC50 2.2 mg/l
Lubricant	Ingestion	Rat	LD50 > 5,000 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Aluminum Oxide Mineral		Data not available or insufficient for classification
Titanium Dioxide		No significant irritation
Lubricant		Minimal irritation

Serious Eye Damage/Irritation

Name	Species	Value
Aluminum Oxide Mineral		Data not available or insufficient for classification
Titanium Dioxide		Mild irritant
Lubricant		Mild irritant

Skin Sensitization

Name	Species	Value
Aluminum Oxide Mineral		Data not available or insufficient for classification
Titanium Dioxide		Not sensitizing
Lubricant		Not sensitizing

Respiratory Sensitization

Name	Species	Value
Aluminum Oxide Mineral		Data not available or insufficient for classification
Titanium Dioxide		Data not available or insufficient for classification
Lubricant		Data not available or insufficient for classification

Germ Cell Mutagenicity

Name	Route	Value
Aluminum Oxide Mineral	In Vitro	Not mutagenic
Titanium Dioxide	In Vitro	Not mutagenic
Titanium Dioxide	Ingestion	Not mutagenic
Lubricant	In Vitro	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
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Aluminum Oxide Mineral	Inhalation		Not carcinogenic
Titanium Dioxide	Ingestion		Not carcinogenic
Titanium Dioxide	Inhalation		Some positive data exist, but the data are not sufficient for classification
Lubricant	Dermal		Some positive data exist, but the data are not sufficient for classification

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
Aluminum Oxide Mineral		Data not available or insufficient for classification			
Titanium Dioxide		Data not available or insufficient for classification			
Lubricant		Data not available or insufficient for classification			

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Aluminum Oxide Mineral	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		Irritation Positive	
Titanium Dioxide	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		Irritation Positive	
Lubricant	Inhalation	central nervous system depression	May cause drowsiness or dizziness		NOAEL N/A	
Lubricant	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification		NOEL 1.51 mg/l	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Aluminum Oxide Mineral	Inhalation	pneumoconiosis	May cause damage to organs though prolonged or repeated exposure		NOAEL N/A	
Aluminum Oxide Mineral	Inhalation	pulmonary fibrosis	Some positive data exist, but the data are not sufficient for classification		NOAEL N/A	
Titanium Dioxide	Inhalation	respiratory system	Some positive data exist, but the		NOEL 10 mg/m3	

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			data are not sufficient for classification			
Titanium Dioxide	Inhalation	pulmonary fibrosis	All data are negative		NOAEL N/A	
Lubricant	Dermal	skin bone, teeth, nails, and/or hair	Some positive data exist, but the data are not sufficient for classification		LOEL 5,000 mg/kg/day	
Lubricant	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification		NOEL 0.21 mg/l	

Aspiration Hazard

Name	Value
Aluminum Oxide Mineral	Not an aspiration hazard
Titanium Dioxide	Not an aspiration hazard
Lubricant	Not an aspiration hazard

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 labeling, 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 #	Organism	Type	Exposure	Test Endpoint	Test Result
Aluminum Oxide Mineral	1344-28-1	Green algae	Experimental	72 hours	No obs Effect Conc	>100 mg/l
Aluminum Oxide Mineral	1344-28-1	Green algae	Experimental	72 hours	Effect Concentration 50%	>100 mg/l
Aluminum Oxide Mineral	1344-28-1	Water flea	Experimental	48 hours	Effect Concentration 50%	>100 mg/l
Aluminum Oxide Mineral	1344-28-1	Fish	Experimental	96 hours	Lethal Concentration 50%	>100 mg/l
Titanium	13463-67-7	Water flea	Experimental	48 hours	Effect	>100 mg/l

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Dioxide					Concentration 50%	
Titanium Dioxide	13463-67-7	Crustacea other	Experimental	96 hours	Effect Concentration 50%	>300 mg/l
Titanium Dioxide	13463-67-7	Sheepshead Minnow	Experimental	96 hours	Lethal Concentration 50%	>240 mg/l
Titanium Dioxide	13463-67-7	Water flea	Experimental	30 days	No obs Effect Conc	3 mg/l
Titanium Dioxide	13463-67-7	Fish	Experimental	30 days	No obs Effect Conc	>=1,000 mg/l
Lubricant	Trade Secret		Data not available or insufficient for classification			

12.2. Persistence and degradability

No test data available

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
Aluminum Oxide Mineral	1344-28-1	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Titanium Dioxide	13463-67-7	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Lubricant	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A

12.3 : Bioaccumulative potential

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
Aluminum Oxide Mineral	1344-28-1	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Lubricant	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Titanium Dioxide	13463-67-7	Experimental BCF - Other	42 days	Bioaccumulation 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

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.

SECTION 14: Transport Information

Not hazardous for transportation.

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.

Carcinogenicity

<u>Ingredient</u>	<u>C.A.S. No.</u>	<u>Class Description</u>	<u>Regulation</u>
Titanium Dioxide	13463-67-7	Grp. 2B: Possible human carc.	International Agency for Research on Cancer

SECTION 16: Other 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.

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