



Safety Data Sheet

Copyright, 2015, 3M Company.

All rights reserved. Copying and/or downloading of this information for the purpose of properly utilizing 3M products is allowed provided that: (1) the information is copied in full with no changes unless prior written agreement is obtained from 3M, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon.

Document group: 26-2309-8 **Version number:** 2.00
Issue Date: 04/02/2015 **Supersedes date:** 02/11/2011

This Safety Data Sheet has been prepared in accordance with the Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice (Safe Work Australia, December 2011)

SECTION 1: Identification

1.1. Product identifier

3M™ Abrasive Products, Cubitron™ II Fibre Disc 987C, 36+, 60+, 80+, TN and GL Attachment, Slotted

Product Identification Numbers

60-0001-4782-1	60-0001-4916-5	60-0001-4917-3	60-4100-1742-4	60-4100-1743-2
60-4100-1744-0	60-4100-1745-7	60-4100-1746-5	60-4100-1747-3	60-4100-1748-1
60-4100-1749-9	60-4100-1750-7	60-4100-1751-5	60-4100-1752-3	60-4100-1753-1
60-4100-1754-9	60-4100-1755-6	60-4100-1756-4	60-4402-2747-2	60-4402-2748-0
60-4402-2749-8	60-4402-2750-6	60-4402-2768-8	60-4402-2769-6	60-4402-2770-4
60-4402-2771-2	60-4402-2929-6	60-4402-2930-4	60-4402-2931-2	60-4402-2957-7
60-4402-2958-5	60-4402-2959-3	60-4402-2960-1	60-4402-2961-9	60-4402-2962-7
60-4402-2963-5	60-4402-2964-3	60-4402-2965-0	60-4402-2966-8	60-4402-2967-6
60-4402-2968-4	60-4402-2969-2	60-4402-2970-0	60-4402-2971-8	60-4402-2972-6
60-4402-2973-4	60-4402-2974-2	60-4402-2975-9	60-4402-2976-7	60-4402-2977-5
60-4402-2978-3	60-4402-2981-7	60-4402-3005-4	60-4402-3006-2	60-4402-3007-0
60-4402-3040-1	60-4402-3041-9	60-4402-3042-7	60-4402-3043-5	60-4402-3044-3
60-4402-3045-0	60-4402-3089-8	60-4402-3090-6	60-4402-3091-4	60-4402-3113-6
60-4402-3114-4	60-4402-3115-1	60-4402-3119-3	60-4402-3120-1	60-4402-3121-9
60-4402-3301-7	60-4402-3385-0	60-4402-3509-5	60-4402-3550-9	60-4402-9538-8
60-4402-9539-6	60-4402-9689-9	60-4402-9690-7		

1.2. Recommended use and restrictions on use

Recommended use

Abrasive Product

For Industrial or Professional use only.

1.3. Supplier's details

Address: 3M Australia - Building A, 1 Rivett Road, North Ryde NSW 2113
Telephone: 136 136
E Mail: productinfo.au@mmm.com
Website: www.3m.com.au

1.4. Emergency telephone number

EMERGENCY: 1800 097 146 (Australia only)

SECTION 2: Hazard identification

3M™ Abrasive Products, Cubitron™ II Fibre Disc 987C, 36+, 60+, 80+, TN and GL Attachment, Slotted

This product is NOT classified as a hazardous chemical according to the Model Work Health and Safety Regulations, 2011.

Refer to Section 14 of this Safety Data Sheets for product Dangerous Goods Classification.

2.1. Classification of the substance or mixture

Not applicable.

2.2. Label elements

Signal word

Not applicable.

Symbols

Not applicable.

Pictograms

Not applicable.

2.3. Other assigned/identified product hazards

None known.

2.4. Other hazards which do not result in classification

Harmful to aquatic life with long lasting effects.

SECTION 3: Composition/information on ingredients

This material is a mixture.

Ingredient	CAS Nbr	% by Weight
Ceramic Aluminum Oxide (non-fibrous)	1344-28-1	5 - 25
Inorganic Fluoride	15096-52-3	5 - 15
Inorganic Fluoride	14075-53-7	5 - 15
Filler	1317-65-3	1 - 10
Lanthanum Trioxide	1312-81-8	0.1 - 1.5
Cured resin	Mixture	5 - 20
Fibre Backing	None	40 - 65
TN Metal Attachment	Mixture	0 - 5

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>	<u>Condition</u>
Carbon monoxide.	During combustion.
Carbon dioxide.	During combustion.
Hydrogen Fluoride	During combustion.

5.3. Special protective actions for fire-fighters

When fire fighting conditions are severe and total thermal decomposition of the product is possible, wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, tunic and trousers (leggings), 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

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 inhalation of thermal decomposition products. For industrial or professional use only. 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. Avoid release to the environment. 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

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

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
Filler	1317-65-3	Australia OELs	TWA(Inspirable dust)(8 hours):10 mg/m ³	
Ceramic Aluminum Oxide (non-fibrous)	1344-28-1	Australia OELs	TWA(Inspirable dust)(8 hours):10 mg/m ³	
Ceramic Aluminum Oxide (non-fibrous)	1344-28-1	CMRG	TWA:1 fiber/cc	
Aluminum, insoluble compounds	1344-28-1	ACGIH	TWA(respirable fraction):1 mg/m ³	A4: Not class. as human carcin
Fluorides	15096-52-3	ACGIH	TWA(as F):2.5 mg/m ³	A4: Not class. as human carcin
Fluorides	15096-52-3	Australia OELs	TWA(as F)(8 hours): 2.5 mg/m ³	
Aluminum, insoluble compounds	15096-52-3	ACGIH	TWA(respirable fraction):1 mg/m ³	A4: Not class. as human carcin

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

Australia OELs : Australia. Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment

CMRG : Chemical Manufacturer's Recommended Guidelines

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

Sen: Sensitiser

Sk: Absorption through the skin may be a significant source of exposure.

8.2. Exposure controls

8.2.1. Engineering controls

For those situations where the material might be exposed to extreme overheating due to misuse or equipment failure, use with appropriate local exhaust ventilation sufficient to maintain levels of thermal decomposition products below their exposure guidelines. 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 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.

Select and use eye protection in accordance with AS/NZS 1336. Eye protection should comply with the performance specifications of AS/NZS 1337.

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. Use a positive pressure supplied-air respirator if there is a potential for over exposure from an uncontrolled release, exposure levels are not known, or under any other circumstances where air-purifying respirators may not provide adequate 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.

Select and use respirators according to AS/NZS 1715. Respirators should comply with AS/NZS 1716 performance specifications. For information about respirators, call 3M on 1800 024 464.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Solid.
Appearance/Odour	Solid abrasive product
Odour 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>
Vapour pressure	<i>Not applicable.</i>
Vapour density	<i>Not applicable.</i>
Relative density	<i>Not applicable.</i>
Water solubility	<i>Not applicable.</i>
Solubility- non-water	<i>Not applicable.</i>
Autoignition temperature	<i>Not applicable.</i>
Decomposition temperature	<i>Not applicable.</i>
Viscosity	<i>Not applicable.</i>
Volatile organic compounds (VOC)	<i>No data available.</i>
Percent volatile	<i>No data available.</i>
VOC less H ₂ O & exempt solvents	<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. Conditions to avoid

None known.

10.4. Possibility of hazardous reactions

Hazardous polymerisation will not occur.

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products

Substance

Condition

None known.

Under recommended usage conditions, hazardous decomposition products are not expected. Hazardous decomposition products may occur as a result of oxidation, heating, or reaction with another material. Dust created by grinding, sanding, or machining may cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

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 created by grinding, sanding, or machining may cause irritation of the respiratory system. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

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

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
------	-------	---------	-------

3M™ Abrasive Products, Cubitron™ II Fibre Disc 987C, 36+, 60+, 80+, TN and GL Attachment, Slotted

Ceramic Aluminum Oxide (non-fibrous)	Dermal		LD50 estimated to be > 5,000 mg/kg
Ceramic Aluminum Oxide (non-fibrous)	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 2.3 mg/l
Ceramic Aluminum Oxide (non-fibrous)	Ingestion	Rat	LD50 > 5,000 mg/kg
Inorganic Fluoride	Dermal	Rabbit	LD50 > 2,100 mg/kg
Inorganic Fluoride	Inhalation-Dust/Mist (4 hours)	Rat	LC50 4.5 mg/l
Inorganic Fluoride	Ingestion	Rat	LD50 5,000 mg/kg
Inorganic Fluoride	Dermal		LD50 estimated to be > 5,000 mg/kg
Inorganic Fluoride	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 5.3 mg/l
Inorganic Fluoride	Ingestion	Rat	LD50 5,854 mg/kg
Filler	Dermal	Rat	LD50 > 2,000 mg/kg
Filler	Inhalation-Dust/Mist (4 hours)	Rat	LC50 3.0 mg/l
Filler	Ingestion	Rat	LD50 6,450 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Ceramic Aluminum Oxide (non-fibrous)	Rabbit	No significant irritation
Inorganic Fluoride	Multiple animal species	No significant irritation
Inorganic Fluoride	Rabbit	No significant irritation
Filler	Rabbit	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
Ceramic Aluminum Oxide (non-fibrous)	Rabbit	No significant irritation
Inorganic Fluoride	Rabbit	Mild irritant
Inorganic Fluoride	Rabbit	No significant irritation
Filler	Rabbit	No significant irritation

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
Ceramic Aluminum Oxide (non-fibrous)	In Vitro	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
Ceramic Aluminum Oxide (non-fibrous)	Inhalation	Rat	Not carcinogenic

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
Filler	Ingestion	Not toxic to development	Rat	NOAEL 625 mg/kg/day	prematuring & during gestation

3M™ Abrasive Products, Cubitron™ II Fibre Disc 987C, 36+, 60+, 80+, TN and GL Attachment, Slotted**Target Organ(s)****Specific Target Organ Toxicity - single exposure**

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Filler	Inhalation	respiratory system	All data are negative	Rat	NOAEL 0.812 mg/l	90 minutes

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Ceramic Aluminum Oxide (non-fibrous)	Inhalation	pneumoconiosis pulmonary fibrosis	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	occupational exposure
Inorganic Fluoride	Inhalation	bone, teeth, nails, and/or hair	Causes damage to organs through prolonged or repeated exposure	Rat	NOAEL 0.0005 mg/l	5 months
Inorganic Fluoride	Inhalation	respiratory system	Causes damage to organs through prolonged or repeated exposure	Rat	NOAEL 0.00021 mg/l	90 days
Inorganic Fluoride	Ingestion	bone, teeth, nails, and/or hair	Causes damage to organs through prolonged or repeated exposure	Rat	LOAEL 0.58 mg/kg/day	14 weeks
Filler	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification	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.

Exposure Levels

Refer Section 8.1 Control Parameters of this Safety Data Sheet.

Interactive Effects

Not determined.

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:**

GHS Acute 3: Harmful to aquatic life.

Chronic aquatic hazard:

3M™ Abrasive Products, Cubitron™ II Fibre Disc 987C, 36+, 60+, 80+, TN and GL Attachment, Slotted

GHS Chronic 3: Harmful to aquatic life with long lasting effects.

No product test data available.

Material	CAS Number	Organism	Type	Exposure	Test endpoint	Test result
Lanthanum Trioxide	1312-81-8		Data not available or insufficient for classification			
Ceramic Aluminum Oxide (non-fibrous)	1344-28-1	Water flea	Experimental	48 hours	EC50	>100 mg/l
Ceramic Aluminum Oxide (non-fibrous)	1344-28-1	Fish	Experimental	96 hours	LC50	>100 mg/l
Ceramic Aluminum Oxide (non-fibrous)	1344-28-1	Green algae	Experimental	72 hours	EC50	>100 mg/l
Ceramic Aluminum Oxide (non-fibrous)	1344-28-1	Green algae	Experimental	72 hours	NOEC	>100 mg/l
Inorganic Fluoride	14075-53-7		Data not available or insufficient for classification			
Inorganic Fluoride	14075-53-7	Water flea	Estimated	48 hours	EC50	556 mg/l
Inorganic Fluoride	14075-53-7	Zebra Fish	Estimated	96 hours	LC50	3,700 mg/l
Inorganic Fluoride	15096-52-3	Rainbow trout	Experimental	96 hours	LC50	42.5 mg/l
Inorganic Fluoride	15096-52-3	Water flea	Experimental	48 hours	EC50	5 mg/l
Inorganic Fluoride	15096-52-3	Green Algae	Experimental	72 hours	EC50	8.8 mg/l
Filler	1317-65-3	Western Mosquitofish	Experimental	96 hours	LC50	>100 mg/l
Filler	1317-65-3	Rainbow trout	Experimental	21 days	NOEC	>100 mg/l

12.2. Persistence and degradability

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Lanthanum Trioxide	1312-81-8	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Inorganic Fluoride	14075-53-7	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Inorganic	15096-52-3	Data not	N/A	N/A	N/A	N/A

3M™ Abrasive Products, Cubitron™ II Fibre Disc 987C, 36+, 60+, 80+, TN and GL Attachment, Slotted

Fluoride		available or insufficient for classification				
Filler	1317-65-3	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Ceramic Aluminum Oxide (non-fibrous)	1344-28-1	Data not available or insufficient for classification	N/A	N/A	N/A	N/A

12.3 : Bioaccumulative potential

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Inorganic Fluoride	14075-53-7	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Lanthanum Trioxide	1312-81-8	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Inorganic Fluoride	15096-52-3	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Filler	1317-65-3	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Ceramic Aluminum Oxide (non-fibrous)	1344-28-1	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.

Incinerate in a permitted waste incineration facility. Combustion products will include halogen acid (HCl/HF/HBr). Facility must be capable of handling halogenated materials.

SECTION 14: Transport Information**Australian Dangerous Goods Code (ADG) - Road/Rail Transport**

UN No.: Not applicable.

3M™ Abrasive Products, Cubitron™ II Fibre Disc 987C, 36+, 60+, 80+, TN and GL Attachment, Slotted

Proper shipping name: Not applicable.

Class/Division: Not applicable.

Sub Risk: Not applicable.

Packing Group: Not applicable.

Hazchem Code: Not applicable

IERG: Not applicable.

International Air Transport Association (IATA) - Air Transport

UN No.: Not applicable.

Proper shipping name: Not applicable.

Class/Division: Not applicable.

Sub Risk: Not applicable.

Packing Group: Not applicable.

International Maritime Dangerous Goods Code (IMDG)- Marine Transport

UN No.: Not applicable.

Proper shipping name: Not applicable.

Class/Division: Not applicable.

Sub Risk: Not applicable.

Packing Group: Not applicable.

Marine Pollutant: Not applicable.

SECTION 15: Regulatory information

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

Australian Inventory Status:

This product is defined as an article under the Industrial Chemicals (Notification and Assessment) Act 1989, as amended, and is exempt from inventory requirements under the Industrial Chemicals (Notification and Assessment) Act 1989 as amended.

Poison Schedule: This product has not been assessed for poisons scheduling as the product is intended for industrial and professional use only.

SECTION 16: Other information

Revision information:

Conversion to GHS format SDS.

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 Safety 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.

Greenguard ® is a United States based program. The 'Low VOC' reference related to United States Federal and State regulations exemptions for some solvents.

3M Australia SDSs are available at www.3m.com.au