



Safety Data Sheet

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SECTION 1: Identification

1.1. Product identifier

3M™ Diamond Lapping Film, 631X, 638X (PSA), 641X, 651X, 661X, 661XA, 661XU, 661XY, 662XW, 663X, 664X, 666X, 666XW, 668X(PSA)

Product Identification Numbers

60-0000-1234-8, 60-0000-1235-5, 60-0000-1236-3, 60-0000-1282-7, 60-0000-1283-5, 60-0000-1284-3, 60-0000-1325-4, 60-0000-1326-2, 60-0000-1327-0, 60-0000-1328-8, 60-0000-1329-6, 60-0000-1330-4, 60-0000-1331-2, 60-0000-1332-0, 60-0000-1390-8, 60-0000-1585-3, 60-0000-1586-1, 60-0000-1600-0, 60-0000-1601-8, 60-0000-1602-6, 60-0000-2374-1, 60-0000-2412-9, 60-0000-2413-7, 60-0000-2414-5, 60-0000-2852-6, 60-0000-2855-9, 60-0000-2856-7, 60-0000-2857-5, 60-0000-2858-3, 60-0000-2859-1, 60-0000-4992-8, 60-0000-4993-6, 60-0000-5898-6, 60-0000-6139-4, 60-0000-6741-7, 60-0000-6742-5, 60-0000-7158-3, 60-0000-7592-3, 60-0000-7616-0, 60-0000-7630-1, 60-0000-7641-8, 60-0000-7642-6, 60-0000-7643-4, 60-0000-7644-2, 60-0000-7645-9, 60-0000-7646-7, 60-0000-7647-5, 60-0000-7648-3, 60-0000-7904-0, 60-0000-7905-7, 60-0000-9437-9, 60-0000-9732-3, 60-0001-2151-1, 60-0001-2152-9, 60-0001-2153-7, 60-0001-2154-5, 60-0001-2155-2, 60-0001-2156-0, 60-0001-2157-8, 60-0001-2255-0, 60-0001-3925-7, 60-0001-3926-5, 60-0001-4846-4, 60-0200-0074-5, 60-0200-0162-8, 60-0200-0372-3, 60-0200-0379-8, 60-0200-0380-6, 60-0200-0382-2, 60-0200-0384-8, 60-0200-0387-1, 60-0200-0388-9, 60-0200-0389-7, 60-0200-0390-5, 60-0200-0392-1, 60-0200-0396-2, 60-0200-0397-0, 60-0200-0398-8, 60-0200-0399-6, 60-0200-0400-2, 60-0200-0401-0, 60-0200-0402-8, 60-0200-0403-6, 60-0200-0404-4, 60-0200-0405-1, 60-0200-0406-9, 60-0200-0407-7, 60-0200-0409-3, 60-0200-0413-5, 60-0200-0414-3, 60-0200-0415-0, 60-0200-0416-8, 60-0200-0418-4, 60-0200-0419-2, 60-0200-0420-0, 60-0200-0421-8, 60-0200-0422-6, 60-0200-0424-2, 60-0200-0425-9, 60-0200-0426-7, 60-0200-0427-5, 60-0200-0428-3, 60-0200-0432-5, 60-0200-0435-8, 60-0200-0436-6, 60-0200-0437-4, 60-0200-0438-2, 60-0200-0439-0, 60-0200-0440-8, 60-0200-0441-6, 60-0200-0501-7, 60-0200-0515-7, 60-0200-0517-3, 60-0200-0518-1, 60-0200-0519-9, 60-0200-0520-7, 60-0200-0521-5, 60-0200-0522-3, 60-0200-0523-1, 60-0200-0524-9, 60-0200-0525-6, 60-0200-0526-4, 60-0200-0528-0, 60-0200-0529-8, 60-0200-0530-6, 60-0200-0531-4, 60-0200-0532-2, 60-0200-0533-0, 60-0200-0534-8, 60-0200-0536-3, 60-0200-0537-1, 60-0200-0538-9, 60-0200-0540-5, 60-0200-0541-3, 60-0200-0543-9, 60-0200-0544-7, 60-0200-0545-4, 60-0200-0548-8, 60-0200-0549-6, 60-0200-0550-4, 60-0200-0551-2, 60-0200-0552-0, 60-0200-0553-8, 60-0200-0554-6, 60-0200-0586-8, 60-0200-0587-6, 60-0200-0588-4, 60-0200-0589-2, 60-0200-0591-8, 60-0200-0592-6, 60-0200-0593-4, 60-0200-0594-2, 60-0200-0598-3, 60-0200-0599-1, 60-0200-0600-7, 60-0200-0601-5, 60-0200-0604-9, 60-0200-0605-6, 60-0200-0606-4, 60-0200-0607-2, 60-0200-0608-0, 60-0200-0610-6, 60-0200-0611-4, 60-0200-0612-2, 60-0200-0613-0, 60-0200-0753-4, 60-0200-0757-5, 60-0200-0758-3, 60-0200-0761-7, 60-0200-0762-5, 60-0200-0763-3, 60-0200-0765-8, 60-0200-0766-6, 60-0200-0767-4, 60-0200-0768-2, 60-0200-0777-3, 60-0200-0920-9, 60-0200-0926-6, 60-0200-0933-2, 60-0200-0935-7, 60-0200-0938-1, 60-0200-0942-3, 60-0200-0943-1, 60-0200-0948-0, 60-0200-0950-6, 60-0200-0954-8, 60-0200-0956-3, 60-0200-0957-1, 60-0200-0958-9, 60-0200-0959-7, 60-0200-0960-5, 60-0200-0961-3, 60-0200-0963-9, 60-0200-0964-7, 60-0200-0967-0, 60-0200-0975-3, 60-0200-0978-7, 60-0200-0979-5, 60-0200-0989-4, 60-0200-0990-2, 60-0200-1004-1, 60-0200-1007-4, 60-0200-1008-2, 60-0200-1009-0, 60-0200-1010-8, 60-0200-1023-1, 60-0200-1025-6, 60-0200-1033-0, 60-0200-1041-3, 60-0200-1044-7, 60-0200-1046-2, 60-0200-1047-0, 60-0200-1048-8, 60-0200-1050-4, 60-0200-1051-2, 60-0200-1052-0, 60-0200-1058-7, 60-0200-1060-3, 60-0200-1061-1, 60-0200-1065-2, 60-0200-1068-6, 60-0200-1070-2, 60-0200-1071-0, 60-0200-1080-1, 60-0200-1081-9, 60-0200-1082-7, 60-0200-1083-5, 60-0200-1085-0, 60-0200-1086-8, 60-0200-1091-8, 60-0200-1096-7, 60-

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1.2. Recommended use and restrictions on use

Recommended use

Abrasive Product

1.3. Supplier's details

MANUFACTURER: 3M
DIVISION: Electronics Markets Materials Division

ADDRESS: 3M Center, St. Paul, MN 55144-1000, USA
Telephone: 1-888-3M HELPS (1-888-364-3577)

1.4. Emergency telephone number

1-800-364-3577 or (651) 737-6501 (24 hours)

SECTION 2: Hazard identification

2.1. Hazard classification

Skin Sensitizer: Category 1.

2.2. Label elements

Signal word

Warning

Symbols

Exclamation mark |

Pictograms



Hazard Statements

May cause an allergic skin reaction.

Precautionary Statements

Prevention:

Avoid breathing dust/fume/gas/mist/vapors/spray.
Wear protective gloves.
Contaminated work clothing must not be allowed out of the workplace.

Response:

IF ON SKIN: Wash with plenty of soap and water.
If skin irritation or rash occurs: Get medical advice/attention.
Wash contaminated clothing before reuse.
Specific treatment (see Notes to Physician on this label).

Disposal:

Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

2.3. Hazards not otherwise classified

None.

40% of the mixture consists of ingredients of unknown acute oral toxicity.

SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	% by Wt
POLYMERIC RESIN (CURED)	None	Trade Secret *
DYE (SOME PRODUCTS SUPPLIED WITHOUT DYES)	None	Trade Secret *
POLYESTER FILM BACKING	25038-59-9	Trade Secret *
ETHYLENE-VINYL ACETATE POLYMER	24937-78-8	Trade Secret *
ACRYLIC ACID	79-10-7	Trade Secret *
2-ETHYLHEXYL ACRYLATE	103-11-7	Trade Secret *
PSA	25134-51-4	Trade Secret *
2,2-DIMETHOXY-2-PHENYLACETOPHENONE	24650-42-8	Trade Secret *
DIAMOND	7782-40-3	Trade Secret *
TITANIUM DIOXIDE	13463-67-7	Trade Secret *

*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

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:

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. 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:

Rinse mouth. If you feel unwell, get medical attention.

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

Substance

Carbon monoxide

Carbon dioxide

Condition

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

Ventilate the area with fresh air. 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

For industrial or professional use only. Avoid breathing of dust created by sanding, grinding or machining. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this

product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse.

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

Ingredient	C.A.S. No.	Agency	Limit type	Additional Comments
2-ETHYLHEXYL ACRYLATE	103-11-7	Manufacturer determined	CEIL:5 ppm	Skin Notation
TITANIUM DIOXIDE	13463-67-7	Amer Conf of Gov. Indust. Hyg.	TWA:10 mg/m3	
TITANIUM DIOXIDE	13463-67-7	Chemical Manufacturer Rec Guid	TWA(as respirable dust):5 mg/m3	
TITANIUM DIOXIDE	13463-67-7	US Dept of Labor - OSHA	TWA(as total dust):15 mg/m3	
2,2-DIMETHOXY-2-PHENYLACETOPHENONE	24650-42-8	Chemical Manufacturer Rec Guid	TWA:10 mg/m3	
POLYESTER FILM BACKING	25038-59-9	Chemical Manufacturer Rec Guid	TWA(as respirable dust):5 mg/m3;TWA(as total dust):10 mg/m3	
ACRYLIC ACID	79-10-7	Manufacturer determined	STEL:5 ppm(15 mg/m3)	
ACRYLIC ACID	79-10-7	Amer Conf of Gov. Indust. Hyg.	TWA:2 ppm	Skin Notation

Amer Conf of Gov. Indust. Hyg. : American Conference of Governmental Industrial Hygienists
 American Indust. Hygiene Assoc : American Industrial Hygiene Association
 Chemical Manufacturer Rec Guid : Chemical Manufacturer's Recommended Guidelines
 US Dept of Labor - OSHA : United States Department of Labor - Occupational Safety and Health Administration
 TWA: Time-Weighted-Average
 STEL: Short Term Exposure Limit
 CEIL: 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

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

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing.

Gloves made from the following material(s) are recommended: Nitrile Rubber

Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron – Nitrile

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

General Physical Form:	Solid
Odor, Color, Grade:	Thin film backed abrasive, color varies by grade, no odor
Odor threshold	<i>Not Applicable</i>
pH	<i>Not Applicable</i>
Melting point	<i>Not Applicable</i>
Boiling Point	<i>Not Applicable</i>
Flash Point	<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>
Specific Gravity	<i>No Data Available</i>
Solubility In Water	<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>
Percent volatile	<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.	

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.

Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Photosensitization: Signs/symptoms may include a sunburn-like reaction such as blistering, redness, swelling, and itching from minor exposure to sunlight.

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.

Carcinogenicity:

Ingredient	C.A.S. No.	Class Description	Regulation
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. 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 of this product. Titanium dioxide was not detected when air sampling was conducted during simulated use of similar products containing 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.

Acute Toxicity

Name	Route	Species	Value
Overall product	Ingestion		No data available; calculated ATE > 5,000 mg/kg
POLYESTER FILM BACKING	Dermal		LD50 estimated to be > 5,000 mg/kg
POLYESTER FILM BACKING	Ingestion	Rat	LD50 > 5,000 mg/kg
PSA	Ingestion		LD50 estimated to be 2,000 - 5,000 mg/kg
ETHYLENE-VINYL ACETATE POLYMER	Dermal		LD50 estimated to be > 5,000 mg/kg
ETHYLENE-VINYL ACETATE POLYMER	Ingestion	Rat	LD50 > 1,000 mg/kg
2-ETHYLHEXYL ACRYLATE	Dermal	Rabbit	LD50 > 10,000 mg/kg
2-ETHYLHEXYL ACRYLATE	Ingestion	Rat	LD50 4,430 mg/kg
ACRYLIC ACID	Dermal	Rabbit	LD50 295 mg/kg
ACRYLIC ACID	Inhalation-Dust/Mist (4 hours)	Rat	LC50 3.8 mg/l
ACRYLIC ACID	Ingestion	Rat	LD50 1,250 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
2,2-DIMETHOXY-2-PHENYLACETOPHENONE	Dermal	Rat	LD50 > 7,100 mg/kg
2,2-DIMETHOXY-2-PHENYLACETOPHENONE	Ingestion	Rat	LD50 > 6,000 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
ETHYLENE-VINYL ACETATE POLYMER		No significant irritation
2-ETHYLHEXYL ACRYLATE	Rabbit	Irritant
ACRYLIC ACID	Rabbit	Corrosive
TITANIUM DIOXIDE	Rabbit	No significant irritation
2,2-DIMETHOXY-2-PHENYLACETOPHENONE	Rabbit	No significant irritation

Serious Eye Damage/Irritation

3M™ Diamond Lapping Film, 631X, 638X (PSA), 641X, 651X, 661X, 661XA, 661XU, 661XY, 662XW, 663X, 664X, 666X, 666XW, 668X(PSA) 04/25/14

Name	Species	Value
ETHYLENE-VINYL ACETATE POLYMER		No significant irritation
2-ETHYLHEXYL ACRYLATE	Rabbit	No significant irritation
ACRYLIC ACID	Rabbit	Corrosive
TITANIUM DIOXIDE	Rabbit	No significant irritation
2,2-DIMETHOXY-2-PHENYLACETOPHENONE	Rabbit	No significant irritation

Skin Sensitization

Name	Species	Value
2-ETHYLHEXYL ACRYLATE	Guinea pig	Sensitizing
ACRYLIC ACID	Guinea pig	Some positive data exist, but the data are not sufficient for classification
TITANIUM DIOXIDE	Human and animal	Not sensitizing
2,2-DIMETHOXY-2-PHENYLACETOPHENONE	Guinea pig	Not sensitizing

Photosensitization

Name	Species	Value
2,2-DIMETHOXY-2-PHENYLACETOPHENONE	Guinea pig	Sensitizing

Respiratory Sensitization

Name	Species	Value

Germ Cell Mutagenicity

Name	Route	Value
2-ETHYLHEXYL ACRYLATE	In Vitro	Some positive data exist, but the data are not sufficient for classification
ACRYLIC ACID	In vivo	Not mutagenic
ACRYLIC ACID	In Vitro	Some positive data exist, but the data are not sufficient for classification
TITANIUM DIOXIDE	In Vitro	Not mutagenic
TITANIUM DIOXIDE	In vivo	Not mutagenic
2,2-DIMETHOXY-2-PHENYLACETOPHENONE	In Vitro	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
2-ETHYLHEXYL ACRYLATE	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification
ACRYLIC ACID	Ingestion	Rat	Not carcinogenic
ACRYLIC ACID	Dermal	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

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
2-ETHYLHEXYL ACRYLATE	Inhalation	Not toxic to development	Rat	NOAEL 0.75 mg/l	during gestation
ACRYLIC ACID	Ingestion	Not toxic to female reproduction	Rat	NOAEL 460 mg/kg/day	2 generation
ACRYLIC ACID	Ingestion	Not toxic to male reproduction	Rat	NOAEL 460 mg/kg/day	2 generation

ACRYLIC ACID	Inhalation	Not toxic to development	Rat	NOAEL 1.1 mg/l	during organogenesis
ACRYLIC ACID	Ingestion	Some positive developmental data exist, but the data are not sufficient for classification	Rat	NOAEL 53 mg/kg/day	2 generation

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
2-ETHYLHEXYL ACRYLATE	Inhalation	respiratory irritation	May cause respiratory irritation	Rat	NOAEL Not available	
ACRYLIC ACID	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
ETHYLENE-VINYL ACETATE POLYMER	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 4,000 mg/kg/day	90 days
2-ETHYLHEXYL ACRYLATE	Inhalation	endocrine system liver	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 0.75 mg/l	90 days
2-ETHYLHEXYL ACRYLATE	Inhalation	olfactory system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 0.08 mg/l	90 days
2-ETHYLHEXYL ACRYLATE	Inhalation	respiratory system	All data are negative	Rat	NOAEL 0.75 mg/l	90 days
TITANIUM DIOXIDE	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 0.010 mg/l	2 years
TITANIUM DIOXIDE	Inhalation	pulmonary fibrosis	All data are negative	Human	NOAEL Not available	occupational exposure
2,2-DIMETHOXY-2-PHENYLACETOPHENONE	Dermal	photoirritation	All data are negative	Mouse	NOAEL Not available	not available
2,2-DIMETHOXY-2-PHENYLACETOPHENONE	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 138 mg/kg/day	3 months
2,2-DIMETHOXY-2-PHENYLACETOPHENONE	Ingestion	hematopoietic system kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 581 mg/kg/day	3 months
2,2-DIMETHOXY-2-PHENYLACETOPHENONE	Ingestion	auditory system eyes	All data are negative	Rat	NOAEL 581 mg/kg/day	3 months

Aspiration Hazard

Name	Value

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

Ecotoxicological information

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material

and/or its components.

Chemical fate information

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

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.

EPA Hazardous Waste Number (RCRA): Not regulated

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 transportation classifications are based on product formulation, packaging, 3M policies and 3M 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 U.S. 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. US Federal Regulations

Contact 3M for more information.

311/312 Hazard Categories:

Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - Yes

15.2. State Regulations

Contact 3M for more information.

California Proposition 65

<u>Ingredient</u>	<u>C.A.S. No.</u>	<u>Classification</u>
Toluene	108-88-3	Female reproductive toxin
Toluene	108-88-3	Developmental Toxin
TITANIUM DIOXIDE	13463-67-7	Carcinogen

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

WARNING: This product contains a chemical known to the State of California to cause cancer.

15.3. Chemical Inventories

This product is an article as defined by TSCA regulations, and is exempt from TSCA Inventory listing requirements.

Contact 3M for more information.

15.4. International Regulations

Contact 3M for more information.

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 16: Other information

NFPA Hazard Classification

Health: 2 **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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