



Safety Data Sheet

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Document Group:	16-0711-8	Version Number:	13.00
Issue Date:	07/30/20	Supersedes Date:	09/10/19

SECTION 1: Identification

1.1. Product identifier

3M™ Unitek™ APC™ II Adhesive Coated Appliances (6***- Series, 3***- Series)

Product Identification Numbers

70-0008-0000-6, 70-0008-0001-4, 70-0008-0002-2, 70-0008-0003-0, 70-0008-0004-8, 70-0008-0005-5, 70-0008-0006-3, 70-0008-0786-0, 70-0008-0787-8, 70-0008-0788-6, 70-0008-0795-1, 70-0008-0796-9, 70-0008-0797-7, 70-0008-0798-5, 70-0008-0800-9, 70-0008-0801-7, 70-0008-0802-5, 70-0008-0809-0, 70-0008-0810-8, 70-0008-0811-6, 70-0008-0812-4, 70-0008-1600-2, 70-0008-1601-0, 70-0008-1602-8, 70-0008-1638-2, 70-0008-1639-0, 70-0008-1640-8, 70-0008-1641-6, 70-0008-1642-4, 70-0008-1643-2, 70-0008-1644-0, 70-0008-1645-7, 70-0008-1646-5, 70-0008-1647-3, 70-0008-1648-1, 70-0008-1665-5, 70-0008-1666-3, 70-0008-1667-1, 70-0008-1668-9, 70-0008-1669-7, 70-0008-1671-3, 70-0008-1672-1, 70-0008-1681-2, 70-0008-1683-8, 70-0008-1701-8, 70-0008-1702-6, 70-0008-1703-4, 70-0008-1704-2, 70-0008-1705-9, 70-0008-1706-7, 70-0008-1707-5, 70-0008-1708-3, 70-0008-2139-0, 70-0008-2140-8, 70-0008-2141-6, 70-0008-2142-4, 70-0008-2143-2, 70-0008-2144-0, 70-0008-2145-7, 70-0008-2146-5, 70-0008-2155-6, 70-0008-2156-4, 70-0008-2157-2, 70-0008-2158-0, 70-0008-2163-0, 70-0008-2164-8, 70-0008-2165-5, 70-0008-2166-3, 70-0008-2199-4, 70-0008-2252-1, 70-0008-2253-9, 70-0008-2256-2, 70-0008-2257-0, 70-0008-2258-8, 70-0008-2259-6, 70-0008-2260-4, 70-0008-2261-2, 70-0008-2262-0, 70-0008-2263-8, 70-0008-2264-6, 70-0008-2265-3, 70-0008-2266-1, 70-0008-2267-9, 70-0008-2268-7, 70-0008-2269-5, 70-0008-2270-3, 70-0008-2271-1, 70-0008-2288-5, 70-0008-2312-3, 70-0008-2313-1, 70-0008-2314-9, 70-0008-2315-6, 70-0008-2316-4, 70-0008-2317-2, 70-0008-2318-0, 70-0008-2319-8, 70-0008-2320-6, 70-0008-2321-4, 70-0008-2322-2, 70-0008-2323-0, 70-0008-2324-8, 70-0008-2325-5, 70-0008-2326-3, 70-0008-2327-1, 70-0008-2328-9, 70-0008-2329-7, 70-0008-2330-5, 70-0008-2331-3, 70-0008-3727-1, 70-0008-3728-9, 70-0008-3729-7, 70-0008-3730-5, 70-0008-3731-3, 70-0008-3732-1, 70-0008-3733-9, 70-0008-3734-7, 70-0008-3735-4, 70-0008-3736-2, 70-0008-3737-0, 70-0008-3738-8, 70-0008-3739-6, 70-0008-3740-4, 70-0008-3741-2, 70-0008-3742-0, 70-0008-3743-8, 70-0008-3744-6, 70-0008-3745-3, 70-0008-3746-1, 70-0008-3747-9, 70-0008-3748-7, 70-0008-3749-5, 70-0008-3750-3, 70-0008-3751-1, 70-0008-3752-9, 70-0008-3753-7, 70-0008-3754-5, 70-0008-3771-9, 70-0008-3772-7, 70-0008-3773-5, 70-0008-3774-3, 70-0008-3775-0, 70-0008-3776-8, 70-0008-3777-6, 70-0008-3778-4, 70-0008-4564-7, 70-0008-4565-4, 70-0008-4566-2, 70-0008-4567-0, 70-0008-4568-8, 70-0008-4569-6, 70-0008-4570-4, 70-0008-4571-2, 70-0008-4572-0, 70-0008-4573-8, 70-0008-4574-6, 70-0008-4575-3, 70-0008-4576-1, 70-0008-4577-9, 70-0008-4578-7, 70-0008-4579-5, 70-0008-4580-3, 70-0008-4582-9, 70-0008-4583-7, 70-0008-4584-5, 70-0008-4586-0, 70-0008-4587-8, 70-0008-4628-0, 70-0008-5013-4, 70-0008-5014-2, 70-0008-5015-9, 70-0008-5016-7, 70-0008-5017-5, 70-0008-5018-3, 70-0008-5019-1, 70-0008-5020-9, 70-0008-5021-7, 70-0008-5022-5, 70-0008-5023-3, 70-0008-5024-1, 70-0008-5025-8, 70-0008-5026-6, 70-0008-5027-4, 70-0008-5028-2, 70-0008-5029-0, 70-0008-5030-8, 70-0008-5031-6, 70-0008-5032-4, 70-0008-5033-2, 70-0008-5034-0, 70-0008-5035-7, 70-0008-5036-5, 70-0008-5037-3, 70-0008-5038-1, 70-0008-5039-9, 70-0008-5040-7, 70-0008-5041-5, 70-0008-5042-3, 70-0008-5063-9, 70-0008-5064-7, 70-0008-5065-4, 70-0008-5066-2, 70-0008-5067-0, 70-0008-5068-8, 70-0008-5069-6, 70-0008-5070-4, 70-0008-5071-2, 70-0008-5072-0, 70-0008-5084-5, 70-0008-5085-2, 70-0008-5316-1, 70-0008-5317-9, 70-0008-5334-4, 70-0008-5335-1, 70-0008-5336-9, 70-0008-5337-7, 70-0008-5338-5, 70-0008-5339-3, 70-0008-5340-1, 70-0008-5341-9, 70-0008-7579-2, 70-0008-7580-0, 70-0008-7581-8, 70-0008-7582-6, 70-0008-7760-8, 70-0008-7761-6, 70-0008-7762-4, 70-0008-7763-2, 70-0008-7764-0, 70-0008-7765-7, 70-0008-7766-5, 70-0008-7767-3, 70-0008-7768-1, 70-0008-7769-9, 70-0008-7770-7, 70-0008-7771-5, 70-0008-7772-3, 70-0008-7773-1, 70-0008-7774-9, 70-0008-7775-6, 70-0008-7776-4, 70-0008-7777-2, 70-0008-7778-0, 70-0008-7779-8, 70-0008-7780-6, 70-0008-7781-4, 70-

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1.2. Recommended use and restrictions on use

Recommended use

Orthodontic use, Orthodontic use

1.3. Supplier's details

MANUFACTURER: 3M
DIVISION: Oral Care Solutions 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

This document has been prepared in accordance with the U.S. OSHA Hazard Communication Standard, which requires the inclusion of all known hazards of the product or ingredients regardless of the potential risk. The risks of the hazards communicated in this document may vary depending on the potential for exposure.

2.1. Hazard classification

Skin Sensitizer: Category 1B.

2.2. Label elements

Signal word

Warning

Symbols

Exclamation mark |

Pictograms



Hazard Statements

May cause an allergic skin reaction.

Precautionary Statements**Prevention:**

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.

Disposal:

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

SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	% by Wt
Silane Treated Quartz	100402-78-6	70 - 80 Trade Secret *
Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA)	1565-94-2	5 - 15 Trade Secret *
Bisphenol A Dimethacrylate	24448-20-2	5 - 15 Trade Secret *
Silane Treated Silica	68611-44-9	< 2 Trade Secret *
Diphenyliodonium Hexafluorophosphate	58109-40-3	< 1 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:

No need for first aid is anticipated.

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

<u>Substance</u>	<u>Condition</u>
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion

5.3. Special protective actions for fire-fighters

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, 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

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. 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

Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

A no-touch technique is recommended. If skin contact occurs, wash skin with soap and water. Acrylates may penetrate commonly-used gloves. If product contacts glove, remove and discard glove, wash hands immediately with soap and water and then re-glove. 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. Do not get in eyes.

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
SILICA, AMORPHOUS	68611-44-9	OSHA	TWA:20 millions of particles/cu. ft.;TWA concentration:0.8 mg/m3	

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association
 CMRG : Chemical Manufacturer's Recommended Guidelines
 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 in a well-ventilated area.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

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

See Section 7.1 for additional information on skin protection.

Respiratory protection

None required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state

Liquid

Color

Tooth

Specific Physical Form:

Paste

Odor

Slight Acrylate

Odor threshold

No Data Available

pH

Not Applicable

Melting point

No Data Available

Boiling Point

Not Applicable

Flash Point

>=220 °F [Test Method:Closed Cup] [Details:Polymerizes]

Evaporation rate

No Data Available

Flammability (solid, gas)

Not Applicable

Flammable Limits(LEL)

Not Applicable

Flammable Limits(UEL)

Not Applicable

Vapor Pressure

Not Applicable

Vapor Density

Not Applicable

Density

No Data Available

Specific Gravity

2.1 [Ref Std:WATER=1]

Solubility in Water

Nil

Solubility- non-water

No Data Available

Partition coefficient: n-octanol/ water

No Data Available

Autoignition temperature

No Data Available

Decomposition temperature

No Data Available

Viscosity

No Data Available

Volatile Organic Compounds

No Data Available

Percent volatile

No Data Available

VOC Less H2O & Exempt Solvents

No Data Available

SECTION 10: Stability and reactivity**10.1. Reactivity**

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Light

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.

This document has been prepared in accordance with the U.S. OSHA Hazard Communication Standard, which requires the inclusion of all known hazards of the product or ingredients regardless of the potential risk. The risks of the hazards communicated in this document may vary depending on the potential for exposure.

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:

This product may have a characteristic odor; however, no adverse health effects are anticipated.

Skin Contact:

Contact with the skin during product use is not expected to result in significant irritation. Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Eye Contact:

Contact with the eyes during product use is not expected to result in significant irritation.

Ingestion:

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

Additional Health Effects:

Carcinogenicity:

Exposures needed to cause the following health effect(s) are not expected during normal, intended use:

Contains a chemical or chemicals which can cause cancer.

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
Silane Treated Quartz	Dermal		LD50 estimated to be > 5,000 mg/kg
Silane Treated Quartz	Ingestion		LD50 estimated to be > 5,000 mg/kg
Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA)	Dermal	Professional judgment	LD50 estimated to be > 5,000 mg/kg
Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA)	Ingestion	Rat	LD50 > 11,700 mg/kg
Bisphenol A Dimethacrylate	Dermal	Rat	LD50 > 2,000 mg/kg
Bisphenol A Dimethacrylate	Ingestion	Rat	LD50 > 35,000 mg/kg
Silane Treated Silica	Dermal	Rabbit	LD50 > 5,000 mg/kg
Silane Treated Silica	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 0.691 mg/l
Silane Treated Silica	Ingestion	Rat	LD50 > 5,110 mg/kg
Diphenyliodonium Hexafluorophosphate	Ingestion	Rat	LD50 32 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Silane Treated Quartz	Professional judgment	No significant irritation
Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA)	Rabbit	No significant irritation
Bisphenol A Dimethacrylate	Rabbit	No significant irritation
Silane Treated Silica	Rabbit	No significant irritation
Diphenyliodonium Hexafluorophosphate	Rabbit	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA)	In vitro data	No significant irritation
Bisphenol A Dimethacrylate	Rabbit	No significant irritation
Silane Treated Silica	Rabbit	No significant irritation
Diphenyliodonium Hexafluorophosphate	Rabbit	Mild irritant

Skin Sensitization

Name	Species	Value
Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA)	Mouse	Not classified
Bisphenol A Dimethacrylate	Human	Sensitizing
Silane Treated Silica	Human and animal	Not classified

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
Silane Treated Quartz	In Vitro	Some positive data exist, but the data are not sufficient for classification
Silane Treated Quartz	In vivo	Some positive data exist, but the data are not sufficient for classification
Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA)	In Vitro	Not mutagenic
Bisphenol A Dimethacrylate	In Vitro	Not mutagenic
Silane Treated Silica	In Vitro	Not mutagenic
Diphenyliodonium Hexafluorophosphate	In Vitro	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
Silane Treated Quartz	Inhalation	Human and animal	Carcinogenic
Silane Treated Silica	Not Specified	Mouse	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
Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA)	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	during gestation
Silane Treated Silica	Ingestion	Not classified for female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
Silane Treated Silica	Ingestion	Not classified for male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
Silane Treated Silica	Ingestion	Not classified for development	Rat	NOAEL 1,350 mg/kg/day	during organogenesis

Target Organ(s)**Specific Target Organ Toxicity - single exposure**

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Diphenyliodonium Hexafluorophosphate	Inhalation	respiratory irritation	Not classified	Not available	Irritation Equivocal	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Silane Treated Quartz	Inhalation	silicosis	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	occupational exposure
Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA)	Ingestion	endocrine system hematopoietic system liver heart skin gastrointestinal tract bone, teeth, nails, and/or hair immune system muscles nervous system eyes	Not classified	Rat	NOAEL 1,000 mg/kg/day	90 days

		kidney and/or bladder respiratory system vascular system				
Silane Treated Silica	Inhalation	respiratory system silicosis	Not classified	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.

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.

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.

EPCRA 311/312 Hazard Classifications:

Physical Hazards

Not applicable

Health Hazards

Respiratory or Skin Sensitization

15.2. State Regulations

Contact 3M for more information.

15.3. Chemical Inventories

This material contains one or more substances not listed on the TSCA Inventory. Commercial use of this material is regulated by the FDA.

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.

Document Group:	16-0711-8	Version Number:	13.00
Issue Date:	07/30/20	Supersedes Date:	09/10/19

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