



Safety Data Sheet

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SECTION 1: Identification

1.1. Product identifier

APC Flash Free Adhesive Coated Appliance 4007-xxx; 4006-xxx (Clarity ADVANCED); 4067-xxx, 4068-xxx, 4069-xxx (Bondable Buccal Tubes); 4004-xxx (SL3); 4024-xxx (Victory Series Low Profile); 4058-xxx (2nd Bicuspid Tubes); 4017-xxx (Victory Series)

Product Identification Numbers

70-0008-3861-8, 70-0008-3862-6, 70-0008-3863-4, 70-0008-3864-2, 70-0008-3865-9, 70-0008-3866-7, 70-0008-3867-5, 70-0008-3868-3, 70-0008-3869-1, 70-0008-3870-9, 70-0008-3871-7, 70-0008-3872-5, 70-0008-3873-3, 70-0008-3874-1, 70-0008-3875-8, 70-0008-3876-6, 70-0008-3877-4, 70-0008-3878-2, 70-0008-3879-0, 70-0008-3880-8, 70-0008-3881-6, 70-0008-3882-4, 70-0008-3883-2, 70-0008-3887-3, 70-0008-3888-1, 70-0008-3889-9, 70-0008-3896-4, 70-0008-3897-2, 70-0008-3898-0, 70-0008-3899-8, 70-0008-3900-4, 70-0008-3901-2, 70-0008-3902-0, 70-0008-3903-8, 70-0008-3904-6, 70-0008-3905-3, 70-0008-3906-1, 70-0008-3907-9, 70-0008-3908-7, 70-0008-3909-5, 70-0008-3910-3, 70-0008-3911-1, 70-0008-3912-9, 70-0008-3913-7, 70-0008-3914-5, 70-0008-3915-2, 70-0008-3916-0, 70-0008-3917-8, 70-0008-3918-6, 70-0008-3919-4, 70-0008-3920-2, 70-0008-3925-1, 70-0008-3926-9, 70-0008-3927-7, 70-0008-3928-5, 70-0008-3929-3, 70-0008-3930-1, 70-0008-3931-9, 70-0008-3932-7, 70-0008-3936-8, 70-0008-3937-6, 70-0008-3938-4, 70-0008-3945-9, 70-0008-3946-7, 70-0008-3947-5, 70-0008-3948-3, 70-0008-3949-1, 70-0008-3950-9, 70-0008-3953-3, 70-0008-3954-1, 70-0008-3955-8, 70-0008-3956-6, 70-0008-3957-4, 70-0008-3958-2, 70-0008-3959-0, 70-0008-3964-0, 70-0008-3965-7, 70-0008-3968-1, 70-0008-3973-1, 70-0008-3974-9, 70-0008-3977-2, 70-0008-3978-0, 70-0008-3979-8, 70-0008-3980-6, 70-0008-3981-4, 70-0008-3982-2, 70-0008-3984-8, 70-0008-3985-5, 70-0008-3986-3, 70-0008-3987-1, 70-0008-3988-9, 70-0008-3989-7, 70-0008-3990-5, 70-0008-3991-3, 70-0008-3992-1, 70-0008-3993-9, 70-0008-3994-7, 70-0008-4268-5, 70-0008-4269-3, 70-0008-4270-1, 70-0008-4271-9, 70-0008-4272-7, 70-0008-4273-5, 70-0008-4274-3, 70-0008-4275-0, 70-0008-4276-8, 70-0008-4277-6, 70-0008-4278-4, 70-0008-4279-2, 70-0008-4280-0, 70-0008-4281-8, 70-0008-4282-6, 70-0008-4283-4, 70-0008-4284-2, 70-0008-4285-9, 70-0008-4286-7, 70-0008-4287-5, 70-0008-4288-3, 70-0008-4289-1, 70-0008-4290-9, 70-0008-4291-7, 70-0008-4292-5, 70-0008-4293-3, 70-0008-4294-1, 70-0008-4295-8, 70-0008-4296-6, 70-0008-4297-4, 70-0008-4298-2, 70-0008-4299-0, 70-0008-4300-6, 70-0008-4301-4, 70-0008-4302-2, 70-0008-4303-0, 70-0008-5120-7, 70-0008-5121-5, 70-0008-5220-5, 70-0008-5221-3, 70-0008-5292-4, 70-0008-5293-2, 70-0008-5294-0, 70-0008-7620-4, 70-0008-7621-2, 70-0008-7622-0, 70-0008-7623-8, 70-0008-7624-6, 70-0008-7625-3, 70-0008-7626-1, 70-0008-7627-9, 70-0008-7628-7, 70-0008-7629-5, 70-0008-7630-3, 70-0008-7631-1, 70-0008-7632-9, 70-0008-7633-7, 70-0008-7634-5, 70-0008-7635-2, 70-0008-7636-0, 70-0008-7637-8, 70-0008-7638-6, 70-0008-7639-4, 70-0008-7640-2, 70-0008-7641-0, 70-0008-7642-8, 70-0008-7643-6, 70-0008-7644-4, 70-0008-7645-1, 70-0008-7646-9, 70-0008-7647-7, 70-0008-7648-5, 70-0008-7649-3, 70-0008-7650-1, 70-0008-7651-9, 70-0008-7652-7, 70-0008-7653-5, 70-0008-7654-3, 70-0008-7655-0, 70-0008-7656-8, 70-0008-7657-6, 70-0008-7658-4, 70-0008-7659-2, 70-0008-7660-0, 70-0008-7661-8, 70-0008-7662-6, 70-0008-7663-4, 70-0008-7664-2, 70-0008-7665-9, 70-0008-7666-7, 70-0008-7667-5, 70-0008-7668-3, 70-0008-7669-1, 70-0008-7670-9, 70-0008-7671-7, 70-0008-7672-5, 70-0008-7673-3, 70-0008-7674-1, 70-0008-7675-8, 70-0008-7676-6, 70-0008-7677-4, 70-0008-7678-2, 70-0008-7679-0, 70-0008-7680-8, 70-0008-7681-6, 70-0008-7682-4, 70-0008-7683-2, 70-0008-7684-0, 70-0008-7685-7, 70-0008-7686-5, 70-0008-7687-3, 70-0008-7688-1, 70-0008-7689-9, 70-

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1.2. Recommended use and restrictions on use

Recommended use

Orthodontic Adhesive, 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

Serious Eye Damage/Irritation: Category 2A.

Skin Corrosion/Irritation: Category 2.

2.2. Label elements

Signal word

Warning

Symbols

Exclamation mark |

Pictograms



Hazard Statements

Causes serious eye irritation.

Causes skin irritation.

Precautionary Statements

Prevention:

Wear eye/face protection.

Wear protective gloves.

Wash thoroughly after handling.

Response:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	% by Wt
BISPHENOL A BIS (2-HYDROXYETHYL ETHER) DIMETHACRYLATE	24448-20-2	30 - 45 Trade Secret *
BISPHENOL A DIGLYCIDYL ETHER DIMETHACRYLATE (BisGMA)	1565-94-2	30 - 45 Trade Secret *
SILANE TREATED CERAMIC	444758-98-9	5 - 15 Trade Secret *
POLYPROPYLENE	9003-07-0	1 - 10 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:

Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. 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

<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. 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

Avoid prolonged or repeated skin contact. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Do not get in eyes.

7.2. Conditions for safe storage including any incompatibilities

Store away from heat.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

No occupational exposure limit values exist for any of the components listed in Section 3 of this SDS.

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

General Physical Form:	Solid
Specific Physical Form:	Paste
Odor, Color, Grade:	Tooth colored adhesive, slight acrylate odor.
Odor threshold	<i>No Data Available</i>
pH	<i>Not Applicable</i>
Melting point	<i>No Data Available</i>
Boiling Point	<i>Not Applicable</i>
Flash Point	No flash point
Evaporation rate	<i>No Data Available</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>No Data Available</i>
Specific Gravity	2.1 [Ref Std:WATER=1]
Solubility in Water	Nil
Solubility- non-water	<i>No Data Available</i>
Partition coefficient: n-octanol/ water	<i>No Data Available</i>
Autoignition temperature	<i>No Data Available</i>
Decomposition temperature	<i>No Data Available</i>
Viscosity	10,000 - 15,000 centipoise
Molecular weight	<i>No Data Available</i>
Volatile Organic Compounds	<i>No Data Available</i>
Percent volatile	<i>No Data Available</i>
VOC Less H2O & Exempt Solvents	<i>No Data Available</i>

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

Heat

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.

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:

May be harmful in contact with skin.

Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, dryness, cracking, blistering, and pain.

Eye Contact:

Severe Eye Irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

Ingestion:

May be harmful if swallowed.

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

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	Dermal		No data available; calculated ATE2,000 - 5,000 mg/kg
Overall product	Ingestion		No data available; calculated ATE2,000 - 5,000 mg/kg
BISPHENOL A DIGLYCIDYL ETHER DIMETHACRYLATE (BisGMA)	Ingestion		LD50 estimated to be 2,000 - 5,000 mg/kg
BISPHENOL A DIGLYCIDYL ETHER DIMETHACRYLATE	Dermal	Professio	LD50 estimated to be 2,000 - 5,000 mg/kg

(BisGMA)		nal judgeme nt	
BISPHENOL A BIS (2-HYDROXYETHYL ETHER) DIMETHACRYLATE	Dermal	Rat	LD50 > 2,000 mg/kg
BISPHENOL A BIS (2-HYDROXYETHYL ETHER) DIMETHACRYLATE	Ingestion	Rat	LD50 > 35,000 mg/kg
SILANE TREATED CERAMIC	Dermal		LD50 estimated to be > 5,000 mg/kg
SILANE TREATED CERAMIC	Ingestion		LD50 estimated to be 2,000 - 5,000 mg/kg
POLYPROPYLENE	Dermal		LD50 estimated to be > 5,000 mg/kg
POLYPROPYLENE	Ingestion	Mouse	LD50 > 8,000 mg/kg
DIPHENYLIODONIUM HEXAFLUOROPHOSPHATE	Ingestion	Rat	LD50 32 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
BISPHENOL A DIGLYCIDYL ETHER DIMETHACRYLATE (BisGMA)	Not available	Minimal irritation
BISPHENOL A BIS (2-HYDROXYETHYL ETHER) DIMETHACRYLATE	Rabbit	No significant irritation
SILANE TREATED CERAMIC	similar compounds	No significant irritation
POLYPROPYLENE	Human and animal	No significant irritation
DIPHENYLIODONIUM HEXAFLUOROPHOSPHATE	Rabbit	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
BISPHENOL A DIGLYCIDYL ETHER DIMETHACRYLATE (BisGMA)	Not available	Moderate irritant
BISPHENOL A BIS (2-HYDROXYETHYL ETHER) DIMETHACRYLATE	Rabbit	No significant irritation
SILANE TREATED CERAMIC	similar compounds	Mild irritant
POLYPROPYLENE	Professional judgement	No significant irritation
DIPHENYLIODONIUM HEXAFLUOROPHOSPHATE	Rabbit	Mild irritant

Skin Sensitization

Name	Species	Value
Overall product	Guinea pig	Not classified
BISPHENOL A DIGLYCIDYL ETHER DIMETHACRYLATE (BisGMA)	Guinea pig	Sensitizing
BISPHENOL A BIS (2-HYDROXYETHYL ETHER) DIMETHACRYLATE	Human	Sensitizing
SILANE TREATED CERAMIC	similar compounds	Not classified
POLYPROPYLENE	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
BISPHENOL A DIGLYCIDYL ETHER DIMETHACRYLATE (BisGMA)	In Vitro	Some positive data exist, but the data are not sufficient for classification
BISPHENOL A BIS (2-HYDROXYETHYL ETHER) DIMETHACRYLATE	In Vitro	Not mutagenic
POLYPROPYLENE	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 CERAMIC	Inhalation	similar compounds	Some positive data exist, but the data are not sufficient for classification
POLYPROPYLENE	Not Specified	Rat	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 female reproduction	Mouse	NOAEL 0.8 mg/kg/day	prematuring & during gestation
BISPHENOL A DIGLYCIDYL ETHER DIMETHACRYLATE (BisGMA)	Ingestion	Not classified for male reproduction	Mouse	NOAEL 0.8 mg/kg/day	prematuring & during gestation
BISPHENOL A DIGLYCIDYL ETHER DIMETHACRYLATE (BisGMA)	Ingestion	Not classified for development	Mouse	NOAEL 0.8 mg/kg/day	prematuring & during gestation

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
BISPHENOL A DIGLYCIDYL ETHER DIMETHACRYLATE (BisGMA)	Ingestion	endocrine system liver nervous system kidney and/or bladder	Not classified	Mouse	NOAEL 0.8 mg/kg/day	prematuring & during gestation
SILANE TREATED CERAMIC	Inhalation	pulmonary fibrosis	Not classified	similar compounds	NOAEL Not available	

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 completely cured (or polymerized) material in a permitted industrial waste facility. As a disposal alternative, incinerate uncured product in a permitted waste incineration facility. If no other disposal options are available, waste product that has been completely cured or polymerized may be placed in a landfill properly designed for industrial waste.

EPA Hazardous Waste Number (RCRA): Not regulated

SECTION 14: Transport Information

For Transport Information, please visit <http://3M.com/Transportinfo> or call 1-800-364-3577 or 651-737-6501.

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

Serious eye damage or eye irritation

Skin Corrosion or Irritation

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.

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