



Safety Data Sheet

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SECTION 1: Identification

1.1. Product identifier

3M Unitek APC PLUS Adhesive Coated Appliances (5***-Series, 6800-Series)

Product Identification Numbers

70-0008-0757-1, 70-0008-0758-9, 70-0008-0759-7, 70-0008-0760-5, 70-0008-0761-3, 70-0008-0762-1, 70-0008-0765-4, 70-0008-0766-2, 70-0008-0767-0, 70-0008-0768-8, 70-0008-0769-6, 70-0008-0770-4, 70-0008-0771-2, 70-0008-0772-0, 70-0008-0773-8, 70-0008-0774-6, 70-0008-0780-3, 70-0008-0781-1, 70-0008-0782-9, 70-0008-0783-7, 70-0008-0784-5, 70-0008-1595-4, 70-0008-1596-2, 70-0008-1598-8, 70-0008-1626-7, 70-0008-1627-5, 70-0008-1628-3, 70-0008-1629-1, 70-0008-1630-9, 70-0008-1631-7, 70-0008-1632-5, 70-0008-1634-1, 70-0008-1635-8, 70-0008-1636-6, 70-0008-1637-4, 70-0008-1657-2, 70-0008-1658-0, 70-0008-1659-8, 70-0008-1660-6, 70-0008-1661-4, 70-0008-1663-0, 70-0008-1664-8, 70-0008-1677-0, 70-0008-1679-6, 70-0008-1693-7, 70-0008-1694-5, 70-0008-1695-2, 70-0008-1696-0, 70-0008-1697-8, 70-0008-1698-6, 70-0008-1699-4, 70-0008-1700-0, 70-0008-2147-3, 70-0008-2148-1, 70-0008-2149-9, 70-0008-2150-7, 70-0008-2151-5, 70-0008-2152-3, 70-0008-2153-1, 70-0008-2154-9, 70-0008-2159-8, 70-0008-2160-6, 70-0008-2161-4, 70-0008-2162-2, 70-0008-2167-1, 70-0008-2168-9, 70-0008-2169-7, 70-0008-2170-5, 70-0008-2232-3, 70-0008-2233-1, 70-0008-2234-9, 70-0008-2235-6, 70-0008-2236-4, 70-0008-2237-2, 70-0008-2238-0, 70-0008-2239-8, 70-0008-2240-6, 70-0008-2241-4, 70-0008-2242-2, 70-0008-2243-0, 70-0008-2244-8, 70-0008-2245-5, 70-0008-2246-3, 70-0008-2247-1, 70-0008-2248-9, 70-0008-2249-7, 70-0008-2250-5, 70-0008-2251-3, 70-0008-2279-4, 70-0008-2282-8, 70-0008-2283-6, 70-0008-2332-1, 70-0008-2333-9, 70-0008-2334-7, 70-0008-2335-4, 70-0008-2336-2, 70-0008-2337-0, 70-0008-2338-8, 70-0008-2339-6, 70-0008-2340-4, 70-0008-2341-2, 70-0008-2342-0, 70-0008-2343-8, 70-0008-2344-6, 70-0008-2345-3, 70-0008-2346-1, 70-0008-2347-9, 70-0008-2348-7, 70-0008-2349-5, 70-0008-2350-3, 70-0008-2351-1, 70-0008-3699-2, 70-0008-3700-8, 70-0008-3701-6, 70-0008-3702-4, 70-0008-3703-2, 70-0008-3704-0, 70-0008-3705-7, 70-0008-3706-5, 70-0008-3707-3, 70-0008-3708-1, 70-0008-3709-9, 70-0008-3710-7, 70-0008-3711-5, 70-0008-3712-3, 70-0008-3713-1, 70-0008-3714-9, 70-0008-3715-6, 70-0008-3716-4, 70-0008-3717-2, 70-0008-3718-0, 70-0008-3719-8, 70-0008-3720-6, 70-0008-3721-4, 70-0008-3722-2, 70-0008-3723-0, 70-0008-3724-8, 70-0008-3725-5, 70-0008-3726-3, 70-0008-3763-6, 70-0008-3764-4, 70-0008-3765-1, 70-0008-3766-9, 70-0008-3767-7, 70-0008-3768-5, 70-0008-3769-3, 70-0008-3770-1, 70-0008-4983-9, 70-0008-4984-7, 70-0008-4985-4, 70-0008-4986-2, 70-0008-4987-0, 70-0008-4988-8, 70-0008-4989-6, 70-0008-4990-4, 70-0008-4991-2, 70-0008-4992-0, 70-0008-4993-8, 70-0008-4994-6, 70-0008-4995-3, 70-0008-4996-1, 70-0008-4997-9, 70-0008-4998-7, 70-0008-4999-5, 70-0008-5000-1, 70-0008-5001-9, 70-0008-5002-7, 70-0008-5003-5, 70-0008-5004-3, 70-0008-5005-0, 70-0008-5006-8, 70-0008-5007-6, 70-0008-5008-4, 70-0008-5009-2, 70-0008-5010-0, 70-0008-5011-8, 70-0008-5012-6, 70-0008-5053-0, 70-0008-5054-8, 70-0008-5055-5, 70-0008-5056-3, 70-0008-5057-1, 70-0008-5058-9, 70-0008-5059-7, 70-0008-5060-5, 70-0008-5061-3, 70-0008-5062-1, 70-0008-5082-9, 70-0008-5083-7, 70-0008-5314-6, 70-0008-5315-3, 70-0008-5326-0, 70-0008-5327-8, 70-0008-5328-6, 70-0008-5329-4, 70-0008-5330-2, 70-0008-5331-0, 70-0008-5332-8, 70-0008-5333-6, 70-0008-7736-8, 70-0008-7737-6, 70-0008-7738-4, 70-0008-7739-2, 70-0008-7740-0, 70-0008-7741-8, 70-0008-7742-6, 70-0008-7743-4, 70-0008-7744-2, 70-0008-7745-9, 70-0008-7746-7, 70-0008-7747-5, 70-0008-7748-3, 70-0008-7749-1, 70-0008-7750-9, 70-0008-7751-7, 70-0008-7752-5, 70-0008-7753-3, 70-0008-7754-1, 70-0008-7755-8, 70-0008-7756-6, 70-0008-7757-4, 70-0008-7758-2, 70-0008-7759-0, 70-0008-7802-8, 70-0008-7803-6, 70-0008-7804-4, 70-0008-7806-9, 70-0008-7807-7, 70-0008-7808-5, 70-0008-7809-3, 70-0008-7810-1, 70-

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1.2. Recommended use and restrictions on use

Recommended 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

Serious Eye Damage/Irritation: Category 2B.

Skin Sensitizer: Category 1B.

2.2. Label elements

Signal word

Warning

Symbols

Exclamation mark |

Pictograms



Hazard Statements

Causes eye irritation.

May cause an allergic skin reaction.

Precautionary Statements

Prevention:

Wear protective gloves.

Wash thoroughly after handling.

Contaminated work clothing must not be allowed out of the workplace.

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 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.

10% of the mixture consists of ingredients of unknown acute oral toxicity.

10% of the mixture consists of ingredients of unknown acute dermal toxicity.

SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	% by Wt
Silane Treated Glass	None	35 - 45 Trade Secret *
Silane Treated Quartz	100402-78-6	35 - 45 Trade Secret *
Polyethylene Glycol Dimethacrylate (PEGDMA)	25852-47-5	5 - 15 Trade Secret *
1,2,3-Propanetricarboxylic acid, 2-hydroxy-, reaction products with 2-isocyanatoethyl methacrylate	1628713-16-5	5 - 15 Trade Secret *
Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA)	1565-94-2	1 - 10 Trade Secret *
Silane Treated Silica	67762-90-7	1 - 5 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:

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.

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

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. Wash contaminated clothing before reuse. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Do not get in eyes.

7.2. Conditions for safe storage including any incompatibilities

Store away from oxidizing agents.

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	67762-90-7	OSHA	TWA concentration:0.8 mg/m ³ ;TWA:20 millions of particles/cu. ft.	

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	Solid
Color	Pink
Specific Physical Form:	Paste
Odor	Very Slight Acrylate
Odor threshold	<i>No Data Available</i>
pH	<i>No Data Available</i>
Melting point	<i>No Data Available</i>
Boiling Point	<i>Not Applicable</i>
Flash Point	> 220 °F [Test Method:Closed Cup] [Details:Polymerizes]
Evaporation rate	<i>No Data Available</i>
Flammability (solid, gas)	Not Classified
Flammable Limits(LEL)	<i>No Data Available</i>
Flammable Limits(UEL)	<i>No Data Available</i>
Vapor Pressure	Negligible
Vapor Density	Negligible
Density	<i>No Data Available</i>
Specific Gravity	2.1 [Ref Std:WATER=1]
Solubility In Water	<i>No Data Available</i>
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	<i>No Data Available</i>
Percent volatile	<i>No Data Available</i>
VOC Less H2O & Exempt Solvents	< 10 g/l

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

Strong oxidizing agents

10.6. Hazardous decomposition products

<u>Substance</u>	<u>Condition</u>
Carbon monoxide	Oxidation, heat or reaction
Carbon dioxide	Oxidation, heat or reaction

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:

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

Eye Contact:

Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy 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 ATE >5,000 mg/kg
Overall product	Ingestion		No data available; calculated ATE 2,000 - 5,000 mg/kg
Silane Treated Glass	Dermal		LD50 estimated to be > 5,000 mg/kg
Silane Treated Glass	Ingestion		LD50 estimated to be 2,000 - 5,000 mg/kg
Silane Treated Quartz	Dermal	Rabbit	LD50 > 5,000 mg/kg
Silane Treated Quartz	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 0.691 mg/l
Silane Treated Quartz	Ingestion	Rat	LD50 > 5,110 mg/kg
Polyethylene Glycol Dimethacrylate (PEGDMA)	Dermal	Rabbit	LD50 15,500 mg/kg
Polyethylene Glycol Dimethacrylate (PEGDMA)	Ingestion	Rat	LD50 9,400 mg/kg
Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA)	Dermal	Professional judgement	LD50 estimated to be > 5,000 mg/kg
Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA)	Ingestion	Rat	LD50 > 11,700 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 Glass	Professional judgement	No significant irritation
Silane Treated Quartz	Rabbit	No significant irritation
Polyethylene Glycol Dimethacrylate (PEGDMA)	Rabbit	Mild irritant
Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA)	Rabbit	No significant irritation
Silane Treated Silica	Rabbit	No significant irritation
Diphenyliodonium Hexafluorophosphate	Rabbit	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
Silane Treated Glass	Professional judgement	No significant irritation
Silane Treated Quartz	Rabbit	No significant irritation
Polyethylene Glycol Dimethacrylate (PEGDMA)	Rabbit	Moderate irritant
Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA)	In vitro data	No significant irritation
Silane Treated Silica	Rabbit	No significant irritation
Diphenyliodonium Hexafluorophosphate	Rabbit	Mild irritant

Skin Sensitization

Name	Species	Value
Overall product	Guinea pig	Sensitizing
Silane Treated Quartz	Human and animal	Not classified
Polyethylene Glycol Dimethacrylate (PEGDMA)	Guinea pig	Not classified
Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA)	Mouse	Not classified
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
Overall product	In Vitro	Not mutagenic
Silane Treated Quartz	In Vitro	Not mutagenic
Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA)	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	Not Specified		Some positive data exist, but the data are not sufficient for classification
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
Silane Treated Quartz	Ingestion	Not classified for female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
Silane Treated Quartz	Ingestion	Not classified for male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
Silane Treated Quartz	Ingestion	Not classified for development	Rat	NOAEL 1,350 mg/kg/day	during organogenesis
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
Polyethylene Glycol Dimethacrylate (PEGDMA)	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
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	respiratory system silicosis	Not classified	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 kidney and/or bladder respiratory system vascular system	Not classified	Rat	NOAEL 1,000 mg/kg/day	90 days
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 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

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

Serious eye damage or eye 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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