SAFETY DATA SHEETS

This SDS packet was issued with item: 071219054

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

070387076 070617324 070617332 070617340 070617357 070617449 070617639 070617647 070617654 070617662 070617670 071219070 071219088 071226430 071226448 075023759 075023767 075023775 075023783 075023791 075023908 075023916 075023924 075023932 075023940 273012944 273016310 273018183 273022135 273023188 273023189



Safety Data Sheet

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Issue Date:	07/23/21	Supercedes Date:	06/29/20

SECTION 1: Identification

1.1. Product identifier

Filtek[™] Bulk Fill Flowable Restorative

Product Identification Numbers

70-2014-0039-0, 70-2014-0040-8, 70-2014-0041-6, 70-2014-0042-4, 70-2014-0051-5, 70-2014-0052-3, 70-2014-0053-1, 70-2014-0042-4, 70-2014-0051-5, 70-2014-0052-3, 70-2014-0053-1, 70-2014-0042-4, 70-2014-0042-4, 70-2014-0051-5, 70-2014-0052-3, 70-2014-0053-1, 70-2014-0042-4, 70-2014-0042-4, 70-2014-0051-5, 70-2014-0052-3, 70-2014-0053-1, 70-2014-0042-4, 70-2014-0042-4, 70-2014-0051-5, 70-2014-0052-3, 70-2014-0053-1, 70-2014-0042-4, 70-2014-0051-5, 70-2014-0052-3, 70-2014-0053-1, 70-2014-0051-5, 70-2014-0052-3, 70-2014-0053-1, 70-2014-0051-5, 70-2014-0052-3, 70-2014-0053-1, 70-2014-0051-5, 70-2014-0052-3, 70-2014-0053-1, 70-2014-0052-3, 70-2014-0053-1, 70-2014-0052-3, 70-2014-0053-1, 70-2014-0052-3, 70-2014-0053-1, 70-2014-0050-1, 70-2014-0050-1, 70-2014-0050-1, 70-2014-0050-1, 70-2014-0050-1, 70-20050-1, 2014-0054-9, 70-2014-0056-4, 70-2014-0060-6, 70-2014-0829-4, 70-2014-0830-2, 70-2014-0831-0, 70-2014-0832-8, 70-2014-0842-8, 70 2014-0834-4, 70-2014-0835-1, 70-2014-0836-9, 70-2014-0837-7, 70-2014-0839-3, 70-2014-0840-1, 70-2014-0841-9, 70-2014-0842-7, 70-2014-0868-2, 70-2014-0869-0, 70-2014-0871-6, 70-2014-0938-3, 70-2014-0939-1, 70-2014-0940-9, 70-2014-1088-6, 70-2014-1089-4, 70-2014-1090-2, 70-2014-1091-0, 70-2014-1092-8, 70-2014-1093-6, 70-2014-1094-4, 70-2014-1156-1, 70-2014-1300-5, 70-2014-1301-3, 70-2014-1302-1, 70-2014-1303-9, 70-2014-1304-7, 70-2014-1305-4, 70-2014-1306-2, 70-2014-1307-0, 70-2014-1308-8, 70-2014-1309-6, 70-2014-1437-5, 70-2014-1438-3, 70-2014-1439-1, 70-2014-1440-9, 70-2014-1441-7, 70-2014-1442-5, 70-2014-1443-3, 70-2014-1444-1, 70-2014-1455-7, 70-2014-1456-5, 70-2014-1456-5, 70-2014-1446-1, 70-2014-1456-7, 70-2014-1456-5, 70-2014-1456-7, 70 2014-1457-3, 70-2014-1458-1, 70-2014-1459-9, 70-2014-1460-7, 70-2014-1461-5, 70-2014-1462-3, 70-2014-1472-2, 70-2014-1461-5, 70-2014-146-5, 70-2014-1461-5, 70-2014-1461-5, 70-2014-1461-5, 70-2014-1461-5, 70-2014-1461-5, 70-2014-1461-5, 70-2014-1461-5, 70-2014-1461-5, 70-2014-1461-5, 70-2014-1461-5, 70-2014-146-5, 70-2004-146-5, 70-2004-146-5, 70-2004-146-5, 70-2004-146-5, 70-2004-146-5, 70-2004-146-5, 70-2004-146-5, 70-2004-146-5, 70-2004-140-5, 70-2 2014-1473-0 7100036588, 7100036668, 7100036669, 7100036670, 7100038838, 7100038839, 7100038860, 7100038861, 7100036671, 7100038863, 7100156373, 7100156376, 7100156377, 7100156374, 7100156418, 7100156417, 7100156427, 7100156416, 7100156428, 7100156419, 7100141225, 7100141226, 7100141207, 7100141223, 7100141210, 7100141221, 7100141184, 7100141185, 7100141186, 7100219137, 7100219138, 7100219139, 7100219140, 7100219142, 7100219384, 7100219360, 7100219485, 7100219361, 7100219141, 7100219377, 7100219362, 7100219373, 7100219374, 7100219383, 7100219535, 7100219522, 7100219500, 7100219501, 7100219499, 7100226069, 7100226070, 7100226071, 7100226072, 7100233420, 7100233421, 7100233422, 7100233391, 7100233392, 7100233413, 7100233423, 7100233424, 7100234886, 7100234900, 7100234887, 7100234901, 7100234902, 7100234903, 7100234888, 7100234904, 7100234889, 7100234926

1.2. Recommended use and restrictions on use

Recommended use Dental Product, Bulk fill flowable restorative **Restrictions on use** For use only by dental professionals

1.3. Supplier's details		
MANUFACTURER:	3M	
DIVISION:	Oral Care Solutions Division	
ADDRESS:	3M Center, St. Paul, MN 55	5144-1000, USA
Telephone:	1-888-3M HELPS (1-888-364	4-3577)

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 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.

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 Ceramic	444758-98-9	50 - 60 Trade Secret *
Diurethane Dimethacrylate (UDMA)	72869-86-4	10 - 20 Trade Secret *
Substituted Dimethacrylate	27689-12-9	10 - 20 Trade Secret *
Ytterbium Fluoride (Ybf3)	13760-80-0	1 - 10 Trade Secret *
Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA)	1565-94-2	1 - 5 Trade Secret *
Bisphenol A Polyethylene Glycol Diether Dimethacrylate (BISEMA-6)	41637-38-1	1 - 5 Trade Secret *
Triethylene Glycol Dimethacrylate (TEGDMA)	109-16-0	< 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

Allergic skin reaction (redness, swelling, blistering, and itching).

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	<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

Contain spill. 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. Avoid breathing dust/fume/gas/mist/vapors/spray. 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. 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 heat. 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
FLUORIDES	13760-80-0	ACGIH	TWA(as F):2.5 mg/m3	A4: Not class. as human
				carcin
FLUORIDES	13760-80-0	OSHA	TWA(as F):2.5	
			mg/m3;TWA(as dust):2.5	
			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

Physical state ColorLiquid ToothSpecific Physical Form: OdorViscous liquid-like paste Slight AcrylateOdorSlight AcrylateOdor thresholdNo Data AvailablepHNo Data AvailableMelting pointNo Data AvailableBoiling PointNot ApplicableFlash PointFlash point > 93 °C (200 °F)Evaporation rateNo Data AvailableFlammability (solid, gas)Not ApplicableFlammabile Limits(LEL)Not ApplicableFlammable Limits(UEL)Not ApplicableVapor PressureNot ApplicableVapor Density1.5 g/cm3Specific Gravity1.5 [Ref Std:WATER=1]Solubility in WaterNo Data AvailablePartition coefficient: n-octanol/ waterNo Data AvailableAutoignition temperatureNo Data AvailableViscosityNo Data AvailableMolecular weightNo Data AvailableViscosite Organic CompoundsNo Data Available	Appearance	-
Specific Physical Form:Viscous liquid-like pasteOdorSlight AcrylateOdor thresholdNo Data AvailablepHNot ApplicableMelting pointNo Data AvailableBoiling PointNot ApplicableFlash PointFlash point > 93 °C (200 °F)Evaporation rateNo Data AvailableFlammability (solid, gas)Not ApplicableFlammable Limits(LEL)Not ApplicableFlammable Limits(UEL)Not ApplicableVapor PressureNot ApplicableVapor DensityNot ApplicableDensity1.5 g/cm3Specific Gravity1.5 [Ref Std:WATER=1]Solubility in WaterNo Data AvailablePartition coefficient: n-octanol/waterNo Data AvailableAutoignition temperatureNo Data AvailableViscosityNo Data AvailableMolecular weightNo Data Available	Physical state	Liquid
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ViscosityNo Data AvailableMolecular weightNo Data Available		
Molecular weight No Data Available		No Data Available
	•	No Data Available
Volatile Organic CompoundsNo Data Available		
	Volatile Organic Compounds	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 Heat

10.5. Incompatible materials Strong oxidizing agents

10.6. Hazardous decomposition products **Substance**

None known.

Condition

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. The information below represents toxicological information associated with the individual components of the uncured product. Once properly mixed and/or cured, the product is safe for its intended use.

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:

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	Ingestion		No data available; calculated ATE2,000 - 5,000 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
Substituted Dimethacrylate	Dermal	Professio nal judgeme nt	LD50 estimated to be > 5,000 mg/kg
Substituted Dimethacrylate	Ingestion	Rat	LD50 > 17,600 mg/kg
Diurethane Dimethacrylate (UDMA)	Dermal	Professio nal judgeme nt	LD50 estimated to be > 5,000 mg/kg
Diurethane Dimethacrylate (UDMA)	Ingestion	Rat	LD50 > 5,000 mg/kg

Ytterbium Fluoride (Ybf3)	Dermal	Professio	LD50 estimated to be > 5,000 mg/kg
		nal	
		judgeme	
		nt	
Ytterbium Fluoride (Ybf3)	Ingestion	Rat	LD50 > 5,000 mg/kg
Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA)	Dermal	Professio	LD50 estimated to be $> 5,000 \text{ mg/kg}$
		nal	
		judgeme	
		nt	
Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA)	Ingestion	Rat	LD50 > 11,700 mg/kg
Bisphenol A Polyethylene Glycol Diether Dimethacrylate	Dermal	Rat	LD50 > 2,000 mg/kg
(BISEMA-6)			
Bisphenol A Polyethylene Glycol Diether Dimethacrylate	Ingestion	Rat	LD50 > 35,000 mg/kg
(BISEMA-6)	-		
Triethylene Glycol Dimethacrylate (TEGDMA)	Dermal	Professio	LD50 estimated to be $> 5,000 \text{ mg/kg}$
		nal	
		judgeme	
		nt	
Triethylene Glycol Dimethacrylate (TEGDMA)	Ingestion	Rat	LD50 10,837 mg/kg
ATE – aguta taxiaity actimata			

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Silane Treated Ceramic	similar	No significant irritation
	compoun	
	ds	
Substituted Dimethacrylate	Rabbit	No significant irritation
Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA)	Rabbit	No significant irritation
Bisphenol A Polyethylene Glycol Diether Dimethacrylate (BISEMA-6)	Rabbit	Minimal irritation
Triethylene Glycol Dimethacrylate (TEGDMA)	Guinea	Mild irritant
	pig	

Serious Eye Damage/Irritation

Name	Species	Value
Silane Treated Ceramic	similar	Mild irritant
	compoun	
	ds	
Substituted Dimethacrylate	Rabbit	Mild irritant
Ytterbium Fluoride (Ybf3)	Professio	Mild irritant
	nal	
	judgeme	
	nt	
Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA)	In vitro	No significant irritation
	data	
Bisphenol A Polyethylene Glycol Diether Dimethacrylate (BISEMA-6)	Rabbit	No significant irritation
Triethylene Glycol Dimethacrylate (TEGDMA)	Professio	Moderate irritant
	nal	
	judgeme	
	nt	

Skin Sensitization

Name	Species	Value
Silane Treated Ceramic	similar	Not classified
	compoun	
	ds	
Substituted Dimethacrylate	Guinea	Not classified
	pig	
Diurethane Dimethacrylate (UDMA)	Guinea	Sensitizing
	pig	
Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA)	Mouse	Not classified
Bisphenol A Polyethylene Glycol Diether Dimethacrylate (BISEMA-6)	Guinea	Not classified
	pig	
Triethylene Glycol Dimethacrylate (TEGDMA)	Human	Sensitizing

	and animal
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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
Substituted Dimethacrylate	In Vitro	Not mutagenic
Bisphenol A Diglycidyl Ether Dimethacrylate (BISGMA)	In Vitro	Not mutagenic
Bisphenol A Polyethylene Glycol Diether Dimethacrylate (BISEMA-6)	In Vitro	Not mutagenic
Triethylene Glycol Dimethacrylate (TEGDMA)	In Vitro	Some positive data exist, but the data are not
		sufficient for classification

Carcinogenicity

Name	Route	Species	Value
Silane Treated Ceramic	Inhalation	similar	Some positive data exist, but the data are not
		compoun	sufficient for classification
		ds	
Triethylene Glycol Dimethacrylate (TEGDMA)	Dermal	Mouse	Not carcinogenic

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
Triethylene Glycol Dimethacrylate (TEGDMA)	Ingestion	Not classified for female reproduction	Mouse	NOAEL 1 mg/kg/day	1 generation
Triethylene Glycol Dimethacrylate (TEGDMA)	Ingestion	Not classified for male reproduction	Mouse	NOAEL 1 mg/kg/day	1 generation
Triethylene Glycol Dimethacrylate (TEGDMA)	Ingestion	Not classified for development	Mouse	NOAEL 1 mg/kg/day	1 generation

Target Organ(s)

Specific Target Organ Toxicity - single exposure

For the component/components, either no data are currently available or the data are not sufficient for classification.

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Silane Treated Ceramic	Inhalation	pulmonary fibrosis	Not classified	similar compoun ds	NOAEL Not available	
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
Triethylene Glycol	Dermal	kidney and/or	Not classified	Mouse	NOAEL 833	78 weeks
Dimethacrylate		bladder blood			mg/kg/day	

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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

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.

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