



<u>Safety Data Sheet Cover-Sheet</u> – This page provides additional New Zealand specific information for this product, and must be read in conjunction with the Safety Data Sheet (SDS) attached.

Product Name: ESPE™ RelyX™ Ceramic Primer

Manufacturer: 3M

SDS Expiry: 18 November 2023

Supplier Details: Henry Schein New Zealand

23 William Pickering Drive, Albany

PO Box 101 140, North Shore, Auckland 0745

Ph. 0800 808 855

www.henryschein.co.nz

Emergency Contacts: Poisons/Hazardous Chemical Info Centre – 0800POISON/0800764766 (24 Hours)

Phone 111 for Fire, Ambulance or Police

HSNO Class/Category: 3/6/9

HSNO Group Standard: Dental Products Flammable Group Standard 2017 HSR002556

Statements/Pictograms: As per attached Safety Data Sheet (SDS)

Date Prepared: This coversheet was prepared on 30 November 2018

This SDS coversheet has been produced by Henry Schein NZ and has been prepared in accordance with NZ EPA advice on making overseas SDS compliant to HSNO Act. The above information is based on the present state of our knowledge of the product at the time of publication. It is given in good faith, no warranty is implied with respect to the quality or the specifications of the product. Users must satisfy that the product is entirely suitable for their purpose. The SDS and this coversheet may be revised from time to time, please ensure you have a current copy.





## **Safety Data Sheet**

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This Safety Data Sheet has been prepared in accordance with the New Zealand, Hazardous Substances (Safety Data Sheets) Notice 2017.

## **SECTION 1: Identification**

#### 1.1. Product identifier

2721 3MTM ESPETM RelyXTM Ceramic Primer

#### **Product Identification Numbers**

70-2010-2492-7

#### 1.2. Recommended use and restrictions on use

#### Recommended use

Dental Product, Primer

## Restrictions on use

For use by dental professionals only.

#### 1.3. Supplier's details

Address: 3M New Zealand Ltd, 94 Apollo Drive, Rosedale 0632, Auckland

**Telephone:** (09) 477 4040

**E Mail:** innovation@nz.mmm.com

Website: 3m.co.nz

#### 1.4. Emergency telephone number

24 hr Medical Emergency, National Poisons Centre, 0800 764 766 (0800 POISON)

## **SECTION 2: Hazard identification**

Classified as hazardous in accordance with the relevant criteria of the HSNO Act 1996, the Hazardous Substances (Classification) Notice 2017 and Hazardous Substances (Minimum Degrees of Hazard) Notice 2017. Refer to Section 14 of this Safety Data Sheet for product Dangerous Goods Classification.

#### 2.1. Classification of the substance or mixture

GHS	HSNO
Flammable Liquid: Category 2	3.1B Flammable Liquid
Serious Eye Damage/Irritation: Category 2	6.4A Irritating to the eye
Specific Target Organ Toxicity (repeated exposure):	6.9B Harmful to human target organs/systems

Category 2	
Specific Target Organ Toxicity (single exposure):	6.9B Narcotic effects
Category 3	
Acute Aquatic Toxicity: Category 3	9.1D Aquatic toxicity (acute)

# 2.2. Label elements SIGNAL WORD

DANGER!

**Symbols:** 

Flame | Exclamation mark | Health Hazard |

**Pictograms** 







#### **HAZARD STATEMENTS:**

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure:

respiratory system

H402 Harmful to aquatic life.

#### PRECAUTIONARY STATEMENTS

**Prevention:** 

P210A Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P240B Ground and bond container and receiving equipment.

P242A Use non-sparking tools.
P233 Keep container tightly closed.

P243A Take action to prevent static discharges.

P241 Use explosion-proof electrical/ventilating/lighting equipment.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P271 Use only outdoors or in a well-ventilated area.

P280A Wear eye/face protection.

P280B Wear protective gloves and eye/face protection. P264B Wash exposed skin thoroughly after handling.

**Response:** 

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P312 Call a POISON CENTRE or doctor/physician if you feel unwell.

P314 Get medical advice/attention if you feel unwell.

P370 + P378G In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry

chemical or carbon dioxide to extinguish.

P303 + P361 + P353A IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin

with water or shower.

**Storage:** 

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Disposal:

P501 Dispose of contents/container in accordance with applicable

local/regional/national/international regulations.

## **SECTION 3: Composition/information on ingredients**

Ingredient	CAS Nbr	% by Weight
Ethanol	64-17-5	70 - 80
Water	7732-18-5	20 - 30
3-Trimethoxysilylpropyl methacrylate	2530-85-0	< 2

## **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.

#### Eve contact

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

A product risk assessment is recommended to determine if eye wash facilities may be required when using this product in the workplace.

#### 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 flammable liquids such as dry chemical or carbon dioxide to extinguish.

## 5.2. Special hazards arising from the substance or mixture

Closed containers exposed to heat from fire may build pressure and explode.

## **Hazardous Decomposition or By-Products**

Substance

Carbon monoxide. Carbon dioxide.

### Condition

During combustion.

During combustion.

#### 5.3. Special protective actions for fire-fighters

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. 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.

**5.4. Hazchem code:** -2YE

## **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. 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. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. 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

Cover spill area with a fire-extinguishing foam designed for use on solvents, such as alcohols and acetone, that can dissolve in water. An AR-AFFF type foam is recommended. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible using non-sparking tools. Place in a metal container approved for transportation by appropriate authorities. Clean up residue with water. 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**

Refer to Section 15 - Controls for more information

#### 7.1. Precautions for safe handling

Avoid prolonged or repeated skin contact. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapours/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. Avoid release to the environment. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.)

#### 7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep container tightly closed. Store away from heat. Store away from acids. Store away from oxidising agents.

#### 7.3. Certified handler

Not required

## **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 **CAS Nbr Additional comments** Agency Limit type STEL:1000 ppm Ethanol **ACGIH** A3: Confirmed animal 64-17-5 carcinogen.

Ethanol 64-17-5 New Zealand TWA(8 hours):1880 mg/m3(1000 ppm)WES

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

CMRG: Chemical Manufacturer's Recommended Guidelines New Zealand WES: New Zealand Workplace Exposure Standards.

TWA: Time-Weighted-Average STEL: Short Term Exposure Limit ppm: parts per million mg/m3: milligrams per cubic metre

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.

Refer AS/NZS 1336 - Recommended practices for occupational eye protection and for performance specifications AS/NZS 1337, Parts 1 - 6 - Personal eye-protection.

## Skin/hand protection

See Section 7.1 for additional information on skin protection.

## Respiratory protection

Respiratory protection is not required.

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state Liquid. **Specific Physical Form:** Liquid.

Appearance/Odour Characteristic odour, Clear

**Odour threshold** No data available. рH Not applicable. Melting point/Freezing point Not applicable. 82.2 °C

Boiling point/Initial boiling point/Boiling range

Flash point 21.1 °C [Test Method:Closed Cup]

**Evaporation rate** No data available. Not applicable. Flammability (solid, gas)

Flammable Limits(LEL)

Flammable Limits(UEL)

Vapour pressure

7,332.7 Pa [@ 25 °C ]

Vapour density

No data available.

**Density** 0.86 g/ml

**Relative density** 0.86 [*Ref Std*:WATER=1]

Water solubility
Complete
Solubility- non-water
No data available.
Partition coefficient: n-octanol/water
Autoignition temperature
No data available.
Decomposition temperature
No data available.
Viscosity
1.1 mPa-s

Molecular weightNo data available.Percent volatileNo 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 polymerisation will not occur.

## 10.4 Conditions to avoid

Heat.

Sparks and/or flames.

### 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 labelling, 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

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

Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

May cause additional health effects (see below).

#### Skin contact

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

#### Eve contact

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

#### Ingestion

Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea. May cause additional health effects (see below).

#### **Additional Health Effects:**

#### Single exposure may cause target organ effects:

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

Central nervous system (CNS) depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

#### Prolonged or repeated exposure may cause target organ effects:

Respiratory effects: Signs/symptoms may include cough, shortness of breath, chest tightness, wheezing, increased heart rate, bluish coloured skin (cyanosis), sputum production, changes in lung function tests, and respiratory failure.

### Additional information:

This product contains ethanol. Alcoholic beverages and ethanol in alcoholic beverages have been classified by the International Agency for Research on Cancer as carcinogenic to humans. There are also data associating human consumption of alcoholic beverages with developmental toxicity and liver toxicity. Exposure to ethanol during the foreseeable use of this product is not expected to cause cancer, developmental toxicity, or liver toxicity.

#### **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
Ethanol	Dermal	Rabbit	LD50 > 15,800 mg/kg
Ethanol	Inhalation- Vapor (4 hours)	Rat	LC50 124.7 mg/l
Ethanol	Ingestion	Rat	LD50 17,800 mg/kg
3-Trimethoxysilylpropyl methacrylate	Dermal	Rabbit	LD50 > 20,900 mg/kg
3-Trimethoxysilylpropyl methacrylate	Inhalation- Dust/Mist (4 hours)	Rat	LC50 > 2.28 mg/l
3-Trimethoxysilylpropyl methacrylate	Ingestion	Rat	LD50 > 5,225 mg/kg

ATE = acute toxicity estimate

#### Skin Corrosion/Irritation

Name	Species	Value

Ethanol	Rabbit	No significant irritation
3-Trimethoxysilylpropyl methacrylate	Rabbit	No significant irritation

## **Serious Eye Damage/Irritation**

Name	Species	Value
Ethanol	Rabbit	Severe irritant
3-Trimethoxysilylpropyl methacrylate	Rabbit	Mild irritant

## **Skin Sensitisation**

Name	Species	Value
Ethanol	Human	Not classified
3-Trimethoxysilylpropyl methacrylate	Guinea	Not classified
	pig	

## **Respiratory Sensitisation**

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

**Germ Cell Mutagenicity** 

Germ Centifutagementy	I _	I
Name	Route	Value
Ethanol	In Vitro	Some positive data exist, but the data are not
		sufficient for classification
Ethanol	In vivo	Some positive data exist, but the data are not
		sufficient for classification
3-Trimethoxysilylpropyl methacrylate	In Vitro	Not mutagenic
3-Trimethoxysilylpropyl methacrylate	In vivo	Not mutagenic

Carcinogenicity

- · · · · · · · · · · · · · · · · · · ·			
Name	Route	Species	Value
Ethanol	Ingestion	Multiple	Some positive data exist, but the data are not
		animal	sufficient for classification
		species	

## Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
Ethanol	Inhalation	Not classified for development	Rat	NOAEL 38 mg/l	during gestation
Ethanol	Ingestion	Not classified for development	Rat	NOAEL 5,200 mg/kg/day	premating & during gestation
3-Trimethoxysilylpropyl methacrylate	Ingestion	Not classified for development	Rat	NOAEL 2,100 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
Ethanol	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	LOAEL 2.6 mg/l	30 minutes
Ethanol	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	LOAEL 9.4 mg/l	not available
Ethanol	Ingestion	central nervous	May cause drowsiness or	Multiple	NOAEL not	
		system depression	dizziness	animal	available	

				species		
Ethanol	Ingestion	kidney and/or	Not classified	Dog	NOAEL	
		bladder			3,000 mg/kg	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Ethanol	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification	Rabbit	LOAEL 124 mg/l	365 days
Ethanol	Inhalation	hematopoietic system   immune system	Not classified	Rat	NOAEL 25 mg/l	14 days
Ethanol	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 8,000 mg/kg/day	4 months
Ethanol	Ingestion	kidney and/or bladder	Not classified	Dog	NOAEL 3,000 mg/kg/day	7 days
3-Trimethoxysilylpropyl methacrylate	Dermal	skin   liver   kidney and/or bladder	Not classified	Rabbit	NOAEL 2,100 mg/kg/day	17 days
3-Trimethoxysilylpropyl methacrylate	Inhalation	respiratory system	May cause damage to organs though prolonged or repeated exposure	Rat	LOAEL 0.05 mg/l	14 weeks
3-Trimethoxysilylpropyl methacrylate	Inhalation	liver   hematopoietic system   eyes   kidney and/or bladder	Not classified	Rat	NOAEL 0.244 mg/l	14 weeks

## **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**

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labelling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

## 12.1. Toxicity

## Ecotoxic to the aquatic environment.

Acute Aquatic Toxicity: Category 3 (HSNO 9.1D Aquatic toxicity)

No product test data available.

Material	CAS Number	Organism	Туре	Exposure	Test endpoint	Test result
Ethanol	64-17-5	Rainbow trout	Experimental	96 hours	LC50	42 mg/l
Ethanol	64-17-5	Water flea	Experimental	48 hours	LC50	5,012 mg/l
Ethanol	64-17-5	Algae other	Experimental	96 hours	NOEC	1,580 mg/l
Ethanol	64-17-5	Water flea	Experimental	10 days	NOEC	9.6 mg/l
3-	2530-85-0	Green algae	Experimental	72 hours	EC50	>100 mg/l
Trimethoxysily						
lpropyl						
methacrylate						
3-	2530-85-0	Water flea	Experimental	48 hours	EC50	>100 mg/l

Trimethoxysily						
lpropyl						
methacrylate						
3-	2530-85-0	Zebra Fish	Experimental	96 hours	LC50	>100 mg/l
Trimethoxysily						
lpropyl						
methacrylate						
3-	2530-85-0	Green algae	Experimental	72 hours	NOEC	>=100 mg/l
Trimethoxysily						
lpropyl						
methacrylate						

#### 12.2. Persistence and degradability

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Ethanol	64-17-5	Experimental	14 days	BOD	89 %	OECD 301C - MITI
		Biodegradation			BOD/ThBOD	test (I)
3-	2530-85-0	Experimental		Hydrolytic	4 hours (t 1/2)	Other methods
Trimethoxysily		Hydrolysis		half-life		
lpropyl						
methacrylate						

## 12.3: Bioaccumulative potential

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Ethanol	64-17-5	Experimental		Log Kow	-0.35	Other methods
		Bioconcentrati				
		on				
3-	2530-85-0	Experimental	42 days	Bioaccumulatio	<34	Other methods
Trimethoxysily		BCF-Carp	-	n factor		
lpropyl						
methacrylate						

## 12.4. Mobility in soil

Please contact manufacturer for more details

## 12.5 Other adverse effects

No information available.

## **SECTION 13: Disposal considerations**

### 13.1. Disposal methods

In accordance with the Hazardous Substances (Disposal) Notice 2017 and the relevant criteria of the HSNO Act 1996.

Incinerate in a permitted waste incineration facility.

Packaging (that may or may not contain any residual substance) may be lawfully disposed of by householders or other consumers through public or commercial waste collection services.

## **SECTION 14: Transport Information**

New Zealand Land Transport Rule: Dangerous Goods - Road/Rail Transport

**UN No.: UN1170** 

**Proper Shipping Name: ETHANOL SOLUTION** 

Class/Division: 3

**Sub Risk:** Not applicable. **Packing Group:** II **Hazchem Code:** -2YE

**IERG:** 14

**Special Instructions:** Dangerous goods in Excepted Quantities, Class 3

International Air Transport Association (IATA) - Air Transport

**UN No.: UN1170** 

**Proper Shipping Name: ETHANOL SOLUTION** 

Class/Division: 3

**Sub Risk:** Not applicable. **Packing Group:** II

Special Instructions: Dangerous goods in Excepted Quantities, Class 3

**International Maritime Dangerous Goods Code (IMDG) - Marine Transport** 

UN No.: UN1170

**Proper Shipping Name: ETHANOL SOLUTION** 

Class/Division: 3

**Sub Risk:** Not applicable. **Packing Group:** II

Marine Pollutant: Not applicable.

Special Instructions: FORBIDDEN BY THIS MODE OF TRANSPORT, 3M DIVISION POLICY

## **SECTION 15: Regulatory information**

HSNO Approval number HSR002556

Group standard name Dental Products (Flammable) Group Standard 2017

HSNO Hazard classification Refer to Section 2: Hazard identification

### NZ Inventory of Chemicals (NZIoC) Status

All applicable chemical ingredients in this material are in compliance with NZIoC listing requirements.

## Controls in accordance with the Health and Safety at Work (Hazardous Substances) Regulations 2017

Certified handler Not required

Location Compliance Certificate 100 L (closed containers greater than 5 L) 250 L (closed containers up to and

including 5 L) 50 L (open containers)

Hazardous atmosphere zone 100 L (closed containers) 25 L (decanting) 5 L (open occasionally) 1 L

(open containers in continuous use)

Fire extinguishers Two required for 250 L

Emergency response plan 100 L (for a HSNO 9.1A substance) or 1,000 L (for all other substances) Secondary containment 100 L (for a HSNO 9.1A substance) or 1,000 L (for all other substances)

Tracking Not required

Warning signage 100 L (for a HSNO 9.1A substance), or 250 L (for all other substances)

## **SECTION 16: Other information**

#### **Revision information:**

Complete document review.

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## Key to abbreviations and acronyms

GHS means the Globally Harmonised System of Classification and Labelling of Chemicals, 5th revised edition 2013 HSNO means Hazardous Substances and New Organisms Act 1996

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