

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

3M(TM) Marine Silicone Sealant - White, P.N. 08027

Product Identification Numbers

60-9800-4281-0

1.2. Recommended use and restrictions on use

Recommended use

Marine Mildew Resistant Silicone, Sealant.

For Industrial or Professional use 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		
Serious Eye Damage/Irritation: Category 2	6.4A Irritating to the eye		
Skin Corrosion/Irritation: Category 2	6.3A Irritating to the skin		
Reproductive Toxicity: Category 2	6.8B Suspected human reproductive/developmental		
	toxicant		

Chronic Aquatic Toxicity: Category 2	9.1B Aquatic toxicity (chronic)
No GHS Equivalent	9.3C Terrestrial vertebrate toxicity
No GHS Equivalent	9.4A Terrestrial invertebrate toxicity

2.2. Label elements SIGNAL WORD

WARNING!

Symbols:

Exclamation mark | Health Hazard | Environment |

Pictograms



HAZARD STATEMENTS:

H319 Causes serious eye irritation. H315 Causes skin irritation.

H361 Suspected of damaging fertility or the unborn child.

H411 Toxic to aquatic life with long lasting effects.

H433 Harmful to terrestrial vertebrates.
H441 Very toxic to terrestrial invertebrates.

PRECAUTIONARY STATEMENTS

Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P280A Wear eye/face protection. P280E Wear protective gloves.

P273 Avoid release to the environment.

P264B Wash exposed skin thoroughly after handling.

Response:

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.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P332 + P313 If skin irritation occurs: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P308 + P313 IF exposed or concerned: Get medical advice/attention.
P321 Specific treatment (see Notes to Physician on this label).

P391 Collect spillage.

Storage:

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
Siloxanes And Silicones, DI-ME, Hydroxy-Terminated	70131-67-8	80 - 90
Silicon dioxide	7631-86-9	10 - 20
Ethyltriacetoxysilane	17689-77-9	1 - 5
Methyltriacetoxysilane	4253-34-3	1 - 5
Titanium dioxide	13463-67-7	< 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.

Eye 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 are concerned, get medical advice.

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

Substance	Condition
Acetic Acid	During combustion.
Formaldehyde	During combustion.
Carbon monoxide.	During combustion.
Carbon dioxide.	During combustion.
Irritant vapours or gases.	During combustion.
Oxides of sulphur.	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.

5.4. Hazchem code: Not applicable.

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

Refer to Section 15 - Controls for more information

7.1. Precautions for safe handling

Keep out of reach of children. Do not handle until all safety precautions have been read and understood. Avoid breathing 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.) Use personal protective equipment (eg. gloves, respirators...) as required.

7.2. Conditions for safe storage including any incompatibilities

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 Additional comments CAS Nbr Limit type Agency Titanium dioxide 13463-67-7 ACGIH TWA:10 mg/m³ A4: Not class. as human carcinogin

Titanium dioxide 13463-67-7 New Zealand TWA(8 hours):10 mg/m3

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

Provide ventilated enclosure for curing. Curing enclosures must be exhausted to outdoors or to a suitable emission control device. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapours/spray. If ventilation is not adequate, use respiratory protection equipment.

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:

Indirect vented goggles.

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

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity. Gloves made from the following material(s) are recommended: Polymer laminate

Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapors and particulates

For questions about suitability for a specific application, consult with your respirator manufacturer.

Refer AS/NZS 1715 - Selection, use and maintenance of respiratory protective equipment and AS/NZS 1716 - Respiratory protective devices.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical stateSolid.Specific Physical Form:Paste

Colour White Odour Acetic Acid **Odour threshold** No data available. pН *Not applicable.* Melting point/Freezing point No data available. Boiling point/Initial boiling point/Boiling range Not applicable. Flash point No flash point **Evaporation rate** Not applicable. Flammability (solid, gas) Not classified

Flammable Limits(LEL)

Flammable Limits(UEL)

Vapour pressure

Vapour density

Not applicable.

Not applicable.

Not applicable.

Not applicable.

1.02 g/cm3

Relative density 1.02 [*Ref Std*:WATER=1]

Water solubilityNo data available.Solubility- non-waterNo data available.Partition coefficient: n-octanol/waterNo data available.Autoignition temperatureNo data available.Decomposition temperatureNo data available.ViscosityNot applicable.Percent volatile2 - 4 % weight

VOC less H2O & exempt solvents22 g/l [Test Method:calculated SCAQMD rule 443.1]VOC less H2O & exempt solvents2.2 % [Test Method:calculated per EPA method 24]

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

Not determined

10.5 Incompatible materials

Strong oxidising agents.

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 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

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

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 cause additional health effects (see below).

Additional Health Effects:

Reproductive/Developmental Toxicity:

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

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
Siloxanes And Silicones, DI-ME, Hydroxy-Terminated	Dermal	Rabbit	LD50 > 16,000 mg/kg
Siloxanes And Silicones, DI-ME, Hydroxy-Terminated	Ingestion	Rat	LD50 > 64,000 mg/kg
Ethyltriacetoxysilane	Ingestion	Rat	LD50 1,462 mg/kg
Methyltriacetoxysilane	Ingestion	Rat	LD50 1,602 mg/kg
Silicon dioxide	Dermal	Rabbit	LD50 > 5,000 mg/kg
Silicon dioxide	Inhalation-	Rat	LC50 > 0.691 mg/l
	Dust/Mist		
	(4 hours)		
Silicon dioxide	Ingestion	Rat	LD50 > 5,110 mg/kg
Titanium dioxide	Dermal	Rabbit	LD50 > 10,000 mg/kg
Titanium dioxide	Inhalation-	Rat	LC50 > 6.82 mg/l
	Dust/Mist		
	(4 hours)		
Titanium dioxide	Ingestion	Rat	LD50 > 10,000 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value		
Ethyltriacetoxysilane	Rabbit	Corrosive		
Methyltriacetoxysilane	Rabbit	Corrosive		
Silicon dioxide	Rabbit	No significant irritation		
Titanium dioxide	Rabbit	No significant irritation		

Serious Eve Damage/Irritation

Name	Species	Value
Ethyltriacetoxysilane	similar health	Corrosive
	hazards	
Methyltriacetoxysilane	Rabbit	Corrosive
Silicon dioxide	Rabbit	No significant irritation

Titanium dioxide	Rabbit	No significant irritation

Skin Sensitisation

Name	Species	Value
Silicon dioxide	Human	Not classified
	and	
	animal	
Titanium dioxide	Human	Not classified
	and	
	animal	

Respiratory Sensitisation

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

Germ Cell Mutagenicity

Oci in Centifutagementy				
Name	Route	Value		
Siloxanes And Silicones, DI-ME, Hydroxy-Terminated	In Vitro	Not mutagenic		
Silicon dioxide	In Vitro	Not mutagenic		
Titanium dioxide	In Vitro	Not mutagenic		
Titanium dioxide	In vivo	Not mutagenic		

Carcinogenicity

Name	Route	Species	Value
Silicon dioxide	Not specified.	Mouse	Some positive data exist, but the data are not sufficient for classification
Titanium dioxide	Ingestion	Multiple animal species	Not carcinogenic
Titanium dioxide	Inhalation	Rat	Carcinogenic.

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
Silicon dioxide	Ingestion	Not classified for female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
Silicon dioxide	Ingestion	Not classified for male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
Silicon dioxide	Ingestion	Not classified for development	Rat	NOAEL 1,350 mg/kg/day	during organogenesis

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	nme Route Target Organ(s) Value		Value	Species	Test result	Exposure
Tume	Route	ranger organ(s)	, and	Species	1 cst i csuit	Duration
Ethyltriacetoxysilane	Inhalation	respiratory irritation	Some positive data exist, but the	similar	NOAEL Not	
			data are not sufficient for	health	available	
			classification	hazards		
Methyltriacetoxysilane	Inhalation	respiratory irritation	Some positive data exist, but the	similar	NOAEL Not	
			data are not sufficient for	health	available	
			classification	hazards		

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Silicon dioxide	Inhalation	respiratory system silicosis	Not classified	Human	NOAEL Not available	occupational exposure

Titanium dioxide	Inhalation	respiratory system	Some positive data exist, but the	Rat	LOAEL 0.01	2 years
			data are not sufficient for		mg/l	
			classification			
Titanium dioxide	Inhalation	pulmonary fibrosis	Not classified	Human	NOAEL Not	occupational
					available	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

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.

Chronic Aquatic Toxicity: Category 2 (HSNO 9.1B Aquatic toxicity)

Ecotoxic to terrestrial vertebrates

9.3C Terrestrial vertebrate toxicity

Ecotoxic to terrestrial invertebrates

9.4A Terrestrial invertebrate toxicity

No product test data available.

Material	CAS Number	Organism	Type	Exposure	Test endpoint	Test result
Siloxanes And	70131-67-8		Data not			
Silicones, DI-			available or			
ME, Hydroxy-			insufficient for			
Terminated			classification			
Silicon dioxide	7631-86-9		Data not available or insufficient for classification			
Ethyltriacetoxy silane	17689-77-9	Green Algae	Estimated	72 hours	EC50	>1,562.5 mg/l
Ethyltriacetoxy silane	17689-77-9	Zebra Fish	Experimental	96 hours	LC50	251 mg/l
Ethyltriacetoxy silane	17689-77-9	Water flea	Estimated	48 hours	EC50	168.7 mg/l
Ethyltriacetoxy silane	17689-77-9	Green Algae	Estimated	72 hours	NOEC	40 mg/l
Ethyltriacetoxy silane	17689-77-9	Water flea	Estimated	21 days	NOEC	>=100 mg/l
Methyltriaceto	4253-34-3	Water flea	Experimental	48 hours	EC50	>500 mg/l
xysilane						
Methyltriaceto	4253-34-3	Zebra Fish	Experimental	96 hours	LC50	>500 mg/l
xysilane						
Methyltriaceto	4253-34-3	Green Algae	Estimated	72 hours	EC50	>500 mg/l

xysilane						
Methyltriaceto xysilane	4253-34-3	Water flea	Estimated	21 days	NOEC	31.4 mg/l
Methyltriaceto xysilane	4253-34-3	Fish other	Estimated	90 days	No obs Effect Level	1.26 mg/l
Methyltriaceto xysilane	4253-34-3	Green Algae	Estimated	72 hours	NOEC	500 mg/l
Titanium dioxide	13463-67-7	Diatom	Experimental	72 hours	EC50	>10,000 mg/l
Titanium dioxide	13463-67-7	Water flea	Experimental	48 hours	EC50	>100 mg/l
Titanium dioxide	13463-67-7	Fathead minnow	Experimental	96 hours	LC50	>100 mg/l
Titanium dioxide	13463-67-7	Diatom	Experimental	72 hours	NOEC	5,600 mg/l

12.2. Persistence and degradability

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Siloxanes And	70131-67-8	Data not			N/A	
Silicones, DI-		availbl-				
ME, Hydroxy-		insufficient				
Terminated						
Silicon dioxide	7631-86-9	Data not availbl-			N/A	
		insufficient				
Ethyltriacetoxy	17689-77-9	Experimental			<13 seconds (t	Other methods
silane		Hydrolysis			1/2)	
Ethyltriacetoxy	17689-77-9	Experimental	21 days	Dissolv.	74 % weight	Other methods
silane		Biodegradation		Organic		
				Carbon Deplet		
Methyltriaceto	4253-34-3	Experimental		Hydrolytic	<12 seconds (t	Other methods
xysilane		Hydrolysis		half-life	1/2)	
Methyltriaceto	4253-34-3	Experimental	21 days	Dissolv.	74 % weight	Other methods
xysilane		Biodegradation		Organic		
				Carbon Deplet		
Titanium	13463-67-7	Data not			N/A	
dioxide		availbl-				
		insufficient				

12.3 : Bioaccumulative potential

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Siloxanes And	70131-67-8	Data not	N/A	N/A	N/A	N/A
Silicones, DI-		available or				
ME, Hydroxy-		insufficient for				
Terminated		classification				
Silicon dioxide	7631-86-9	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Ethyltriacetoxy silane	17689-77-9	Estimated Bioconcentrati on		Log Kow	0.74	Other methods

Methyltriaceto	4253-34-3	Estimated		Log Kow	-0.17	Other methods
xysilane		Bioconcentrati				
		on				
Titanium	13463-67-7	Experimental	42 days	Bioaccumulatio	9.6	Other methods
dioxide		BCF-Carp	-	n factor		

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.

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

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.: Not applicable.

Proper Shipping Name: Not applicable.

Class/Division: Not applicable. Sub Risk: Not applicable. Packing Group: Not applicable.

Hazchem Code: Not applicable.

IERG: Not applicable.

International Air Transport Association (IATA) - Air Transport

UN No.: Not applicable.

Proper Shipping Name: Not applicable.

Class/Division: Not applicable. Sub Risk: Not applicable. Packing Group: Not applicable.

International Maritime Dangerous Goods Code (IMDG) - Marine Transport

UN No.: Not applicable.

Proper Shipping Name: Not applicable.

Class/Division: Not applicable.
Sub Risk: Not applicable.
Packing Group: Not applicable.
Marine Pollutant: Not applicable.

SECTION 15: Regulatory information

HSNO Approval number HSR002670

Group standard name Surface Coatings and Colourants (Subsidiary Hazard) 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 Not required
Hazardous atmosphere zone Not required
Fire extinguishers Not required

Emergency response plan 1,000 L or 1,000 kg (for a HSNO 6.1D, 6.5A, 6.5B, 9.1B or 9.1C substance);

or 10,000 L or 10,000 kg (for a HSNO 6.6A, 6.8A, 6.9A, 8.3A, 9.1D

substance)

Secondary containment 1,000 L or 1,000 kg (for a HSNO 6.1D, 6.5A, 6.5B, 9.1B or 9.1C substance);

or 10,000 L or 10,000 kg (for a HSNO 6.6A, 6.8A, 6.9A, 8.3A, 9.1D

substance)

Tracking Not required

Warning signage 1,000 L or 1,000 kg (for a HSNO 8.3A, 9.1B or 9.1C substance); or 10,000 L

or 10,000 kg (for a HSNO 6.1D or 9.1D substance)

SECTION 16: Other information

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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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