

**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 12/18/2025

Reviewed on 12/18/2025

**1 Identification****· Product identifier****· Trade name:** ***Miele ProCare Shine 12GC Tabs*****· Application of the substance / the mixture** Dishwasher formulation**· Details of the supplier of the safety data sheet****· Manufacturer/Supplier:**

Miele Inc.

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Princeton

NJ 08540

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[www.claro.at](http://www.claro.at)**· Information department:**

Labor: Tel.: +43 (0) 6232 / 2626 - 568

Contact: Mr. Dr. Lukasser; [josef.lukasser@claro.at](mailto:josef.lukasser@claro.at)**· Emergency telephone number:** Emergency hotline 911 or provincial poison control center**2 Hazard(s) identification****· Classification of the substance or mixture**

GHS08 Health hazard

Sensitization - Respiratory 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.



GHS05 Corrosion

Eye Damage 1

H318 Causes serious eye damage.



GHS07

Skin Irritation 2

H315 Causes skin irritation.

**· Label elements****· GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

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**Hazard pictograms**

GHS05 GHS08

**Signal word** Danger**Hazard-determining components of labeling:**

SODIUM CARBONATE PEROXIDE

Protease (Subtilisin)

Amylase

**Hazard statements**

H315 Causes skin irritation.

H318 Causes serious eye damage.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Precautionary statements**

P280 Wear eye protection / face protection.

P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.

P302+P352 If on skin: Wash with plenty of water.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P313 If skin irritation occurs: Get medical advice/attention.

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

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Classification system:****NFPA ratings (scale 0 - 4)**

Health = 3

Fire = 0

Reactivity = 0

**HMIS-ratings (scale 0 - 4)**

Health = \*3

Fire = 0

Reactivity = 0

**Other hazards****Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**3 Composition/information on ingredients****Chemical characterization: Mixtures****Description:** Mixture of the substances listed below with nonhazardous additions.

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**· Dangerous components:**

497-19-8	sodium carbonate ⚠ Eye Irritation 2A, H319	15-30%
1344-09-8	Silicic acid, sodium salt ⚠ Acute Toxicity - Inhalation 4, H332; Skin Irritation 2, H315; Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H335	15-30%
9004-34-6	Cellulose	15-30%
15630-89-4	SODIUM CARBONATE PEROXIDE ⚠ Oxidizing Solids 2, H272; ⚠ Eye Damage 1, H318; ⚠ Acute Toxicity - Oral 4, H302	5-15%
10543-57-4	N,N'-Ethylenebis[N-acetylacetamide] ⚠ Acute Toxicity - Inhalation 4, H332	0.2-5%
9038-95-3	Oxirane, methyl-, polymer with oxirane, monobutyl ether ⚠ Acute Toxicity - Oral 4, H302	0.2-5%
7757-82-6	Sodium sulphate	0.2-5%
9014-01-1	Protease (Subtilisin) ⚠ Sensitization - Respiratory 1, H334; ⚠ Eye Damage 1, H318; ⚠ Acute Toxicity - Oral 4, H302; Skin Irritation 2, H315; Specific Target Organ Toxicity - Single Exposure 3, H335	0.2-5%

**4 First-aid measures****· Description of first aid measures****· After inhalation:** In case of unconsciousness place patient stably in side position for transportation.**· After skin contact:**

Wash off with plenty of water. Remove clothing contaminated with product. In case of complaints, consult a doctor.

**· After eye contact:**

Rinse opened eye for several minutes under running water. Then consult a doctor.

**· After swallowing:** If symptoms persist consult doctor.**· Information for doctor:****· Most important symptoms and effects, both acute and delayed**

No further relevant information available.

**· Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

**5 Fire-fighting measures****· Extinguishing media****· Suitable extinguishing agents:**CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fire with alcohol resistant foam. Use fire fighting measures that suit the environment.**· Special hazards arising from the substance or mixture** No further relevant information available.**· Advice for firefighters****· Protective equipment:** The usual measures for fire protection are to be taken.**· Additional information**

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

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**6 Accidental release measures****· Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

**· Environmental precautions:** Do not allow to enter sewers/ surface or ground water.**· Methods and material for containment and cleaning up:**

Use neutralizing agent.

Dispose contaminated material as waste according to section 13.

Pick up mechanically (wipe up, sweep up) and collect in suitable containers for disposal.

**· Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

**· Protective Action Criteria for Chemicals****· PAC-1:**

497-19-8	sodium carbonate	7.6 mg/m <sup>3</sup>
1344-09-8	Silicic acid, sodium salt	5.9 mg/m <sup>3</sup>
7757-82-6	Sodium sulphate	9.8 mg/m <sup>3</sup>
112926-00-8	Silicon dioxide	18 mg/m <sup>3</sup>
13463-67-7	titanium dioxide	30 mg/m <sup>3</sup>

**· PAC-2:**

497-19-8	sodium carbonate	83 mg/m <sup>3</sup>
1344-09-8	Silicic acid, sodium salt	65 mg/m <sup>3</sup>
7757-82-6	Sodium sulphate	110 mg/m <sup>3</sup>
112926-00-8	Silicon dioxide	200 mg/m <sup>3</sup>
13463-67-7	titanium dioxide	330 mg/m <sup>3</sup>

**· PAC-3:**

497-19-8	sodium carbonate	500 mg/m <sup>3</sup>
1344-09-8	Silicic acid, sodium salt	390 mg/m <sup>3</sup>
7757-82-6	Sodium sulphate	650 mg/m <sup>3</sup>
112926-00-8	Silicon dioxide	1,200 mg/m <sup>3</sup>
13463-67-7	titanium dioxide	2,000 mg/m <sup>3</sup>

**7 Handling and storage****· Handling:****· Precautions for safe handling**

Thorough dedusting.

Ensure good ventilation/exhaustion at the workplace.

Ensure good ventilation of the workplace. Wear personal protective equipment. Avoid contact with eyes and skin.

**· Information about protection against explosions and fires:** No special measures required.**· Conditions for safe storage, including any incompatibilities****· Storage:****· Requirements to be met by storerooms and receptacles:** No special requirements.**· Information about storage in one common storage facility:** Not required.**· Further information about storage conditions:** Keep receptacle tightly sealed.

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- **Storage class:** 13
- **Specific end use(s)** No further relevant information available.

**8 Exposure controls/personal protection**

- **Additional information about design of technical systems:**  
Ensure good ventilation of the workplace.

**Control parameters****Components with limit values that require monitoring at the workplace:**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

**9004-34-6 Cellulose**

PEL	Long-term value: 15* 5** mg/m <sup>3</sup> *total dust **respirable fraction
REL	Long-term value: 10* 5** mg/m <sup>3</sup> *total dust **respirable fraction
TLV	Long-term value: 10 mg/m <sup>3</sup>

**7757-82-6 Sodium sulphate**

TLV	Short-term value: NIC-0.2 mg/m <sup>3</sup> thoracic fraction of aerosol
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**9014-01-1 Protease (Subtilisin)**

REL	Short-term value: 0.00006* mg/m <sup>3</sup> *60-min
TLV	Ceiling limit value: 0.00006 mg/m <sup>3</sup> as 100% crystalline active pure enzyme

- **Additional information:** The lists that were valid during the creation were used as basis.

**Exposure controls****Personal protective equipment:****General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.  
Avoid contact with the skin.  
Avoid contact with the eyes and skin.

**Breathing equipment:**

For short-term or low-level exposure, use respiratory filter device; for intensive or prolonged exposure, use self-contained breathing apparatus.

Not necessary if room is well-ventilated.

Wear dust mask if dust is generated: dust mask with filter type P2 (EN143) or fine dust mask FFP2 / FFP3 (EN149)

**Protection of hands:**

Protective gloves according to EN 374

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**· Material of gloves**

Recommended material thickness:  $\geq 0.4\text{mm}$

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Butyl rubber, BR

Nitrile rubber, NBR

Natural rubber, NR

**· Penetration time of glove material**

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

For the mixture of chemicals mentioned below the penetration time has to be at least 480 minutes (Permeation according to EN 16523-1:2015: Level 6).

**· Eye protection:**

Safety goggles according to EN166

**· Body protection:**

The above protective equipment instructions refer to commercial handling of larger quantities.

**9 Physical and chemical properties****· Information on basic physical and chemical properties****· General Information****· Appearance:**

**Form:**

Solid

**Color:**

According to product specification

**· Odor:**

Characteristic

**· Odor threshold:**

Not determined.

**· pH-value at 20 °C (68 °F):**

10.7 (1%)

**· Change in condition**

**Melting point/Melting range:**

Undetermined.

**Boiling point/Boiling range:**

Undetermined.

**· Flash point:**

Not applicable.

**· Flammability:**

Not determined.

**· Decomposition temperature:**

Not determined.

**· Ignition temperature:**

Product is not selfigniting.

**· Danger of explosion:**

Product does not present an explosion hazard.

**· Explosion limits:**

**Lower:**

Not determined.

**Upper:**

Not determined.

**· Vapor pressure:**

Not applicable.

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· <b>Density:</b>	Not determined.
· <b>Relative density</b>	Not determined.
· <b>Vapor density</b>	Not applicable.
· <b>Evaporation rate</b>	Not applicable.
· <b>Solubility in / Miscibility with Water:</b>	Soluble.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not applicable.
<b>Kinematic:</b>	Not applicable.
· <b>Solvent content:</b>	
<b>VOC content:</b>	0.00 %
<b>Solids content:</b>	97.0 %
· <b>Other information</b>	No further relevant information available.

**10 Stability and reactivity**

- **Reactivity** The product is not reactive under normal conditions of use, storage and transport.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

**11 Toxicological information**

- **Information on toxicological effects**
- **Acute toxicity:**

**· LD/LC50 values that are relevant for classification:****497-19-8 sodium carbonate**

Oral	LD50	4,090 mg/kg (rat)
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**1344-09-8 Silicic acid, sodium salt**

Oral	LD50	3,400 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rat)
Inhalative	LC50/4 h	2.06 mg/l (rat)

**15630-89-4 SODIUM CARBONATE PEROXIDE**

Oral	LD50	1,034 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)

**10543-57-4 N,N'-Ethylenebis[N-acetylacetamide]**

Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)

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Inhalative	LC50/4 h	>2.08 mg/l (rat)
<b>9038-95-3 Oxirane, methyl-, polymer with oxirane, monobutyl ether</b>		
Oral	LD50	>300-2,000 mg/kg (rat)
<b>7757-82-6 Sodium sulphate</b>		
Oral	LD50	5,989 mg/kg (mouse)
<b>9014-01-1 Protease (Subtilisin)</b>		
Oral	LD50	1,800 mg/kg (rat)

· **Primary irritant effect:**

- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Strong irritant with the danger of severe eye injury.
- **Sensitization:** Sensitization possible through inhalation.

· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful  
Irritant  
Irritating to skin

· **Carcinogenic categories**· **IARC (International Agency for Research on Cancer)**

112926-00-8	Silicon dioxide	3
13463-67-7	titanium dioxide	2B

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

**12 Ecological information**· **Toxicity**· **Aquatic toxicity:**

<b>497-19-8 sodium carbonate</b>		
LC50/96 h (static)	300 mg/l (Lepomis macrochirus)	
EC50/48 h	200-227 mg/l (Ceriodaphnia dubia)	

**1344-09-8 Silicic acid, sodium salt**

LC50/96 h	310 mg/l (Oncorhynchus mykiss)
ErC50/72h	>345.4 mg/l (algae)
EC50/48 h	1,700 mg/l (Daphnia magna)

**15630-89-4 SODIUM CARBONATE PEROXIDE**

LC50/96 h	70.7 mg/l (Pimephales promelas)
EC50/48 h	4.9 mg/l (Daphnia pulex)
NOEC/48h	2 mg/l (Daphnia pulex)
NOEC/96h	7.4 mg/l (Pimephales promelas)

**9038-95-3 Oxirane, methyl-, polymer with oxirane, monobutyl ether**

LC50/96 h	>100 mg/l (Brachydanio rerio)
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EC50/48 h	>100 mg/l (Daphnia magna)
EC50/72h	>100 mg/l (Scenedesmus subspicatus)

**7757-82-6 Sodium sulphate**

EC50/96h	4,547 mg/l (Daphnia magna) 13,500 mg/l (Lepomis macrochirus)
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**9014-01-1 Protease (Subtilisin)**

LC50/96h	17.7 mg aep/l (Oncorhynchus mykiss)
EC50/72h	0.513 mg/l (Pseudokirchneriella subcapitata)
EC50/48h	1.29 mg aep/l (daphnia)
NOEC/48h	0.066 mg/l (daphnia)
NOEC/96h	10.2 mg/l (Oncorhynchus mykiss)
NOEC / 72h	0.073 mg/L (Pseudokirchneriella subcapitata)

**Persistence and degradability**

The surfactants contained in this preparation fulfill the conditions of biodegradability as laid down in Regulation (EC) No 648/2004 on detergents. Documentation confirming this will be held at the disposal of the competent authorities of the Member States and will only be made available to them either at their direct request or at the request of a detergent manufacturer.

**Behavior in environmental systems:**

**Bioaccumulative potential** No further relevant information available.

**Mobility in soil** No further relevant information available.

**Additional ecological information:****General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

**Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

**Other adverse effects** No further relevant information available.

**13 Disposal considerations****Waste treatment methods****Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Dispose of contents and container to a recognized hazardous waste disposal company or take to hazardous waste collection point.

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

**Uncleaned packagings:****Recommendation:**

Disposal must be made according to official regulations.

Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

Recycle or dispose of in accordance with applicable legal requirements.

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**· Recommended cleansing agent:** Water, if necessary with cleansing agents.**14 Transport information**

· <b>UN-Number</b>	
· <b>ADR, ADN, IMDG, IATA</b>	Void
· <b>UN proper shipping name</b>	
· <b>ADR, ADN, IMDG, IATA</b>	Void
· <b>Transport hazard class(es)</b>	
· <b>ADR, ADN, IMDG, IATA</b>	
· <b>Class</b>	Void
· <b>Packing group</b>	
· <b>ADR, IMDG, IATA</b>	Void
· <b>Environmental hazards:</b>	Not applicable.
· <b>Special precautions for user</b>	Not applicable.
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>UN "Model Regulation":</b>	Void

**15 Regulatory information**

· <b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b>
· <b>Sara</b>

**· Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

**· Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

**· TSCA (Toxic Substances Control Act):**

497-19-8	sodium carbonate	ACTIVE
1344-09-8	Silicic acid, sodium salt	ACTIVE
9004-34-6	Cellulose	ACTIVE
15630-89-4	SODIUM CARBONATE PEROXIDE	ACTIVE
164462-16-2	Trisodium Dicarboxymethylalaninate	ACTIVE
50-70-4	Sorbitol	ACTIVE
10543-57-4	N,N'-Ethylenebis[N-acetylacetamide]	ACTIVE
9038-95-3	Oxirane, methyl-, polymer with oxirane, monobutyl ether	ACTIVE
7757-82-6	Sodium sulphate	ACTIVE
25213-24-5	Polyvinyl Alcohol	ACTIVE
29329-71-3	(1-Hydroxyehyliden) - bisphophonsäure, Natriumsalz	ACTIVE
813-93-4	Bismutcitrat	ACTIVE

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9014-01-1	Protease (Subtilisin)	ACTIVE
501019-91-6	Modified fatty alcohol polyglycoether	ACTIVE
13463-67-7	titanium dioxide	ACTIVE
9000-90-2	Amylase	ACTIVE

**· Hazardous Air Pollutants**

None of the ingredients is listed.

**· Proposition 65****· Chemicals known to cause cancer:**

None of the ingredients is listed.

**· Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

**· Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

**· Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

**· Cancerogenity categories****· EPA (Environmental Protection Agency)**

None of the ingredients is listed.

**· TLV (Threshold Limit Value)**

13463-67-7	titanium dioxide	A4
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**· NIOSH-Ca (National Institute for Occupational Safety and Health)**

13463-67-7	titanium dioxide
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**· GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

**· Hazard pictograms**

GHS05 GHS08

**· Signal word** Danger**· Hazard-determining components of labeling:**

SODIUM CARBONATE PEROXIDE

Protease (Subtilisin)

Amylase

**· Hazard statements**

H315 Causes skin irritation.

H318 Causes serious eye damage.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**· Precautionary statements**

P280 Wear eye protection / face protection.

P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.

P302+P352 If on skin: Wash with plenty of water.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P313 If skin irritation occurs: Get medical advice/attention.

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P337+P313 If eye irritation persists: Get medical advice/attention.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**National regulations:****Additional classification according to Decree on Hazardous Materials:** -**Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.**16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Department issuing SDS:** Labor: Tel.: +43 (0)6232/2626-568**Contact:** Mr. Josef Lukasser**Date of preparation / last revision** 12/18/2025 / 2.4**Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Oxidizing Solids 2: Oxidizing solids – Category 2

Acute Toxicity - Inhalation 4: Acute toxicity – Category 4

Skin Irritation 2: Skin corrosion/irritation – Category 2

Eye Damage 1: Serious eye damage/eye irritation – Category 1

Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A

Sensitization - Respiratory 1: Respiratory sensitisation – Category 1

Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3

**\* Data compared to the previous version altered.**

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