



# SAFETY DATA SHEET

according to 29 CFR 1910.1200 and GHS

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## Synergize® NF

Revision 0  
Revision date 2019-11-21

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product name	Synergize® NF
Product code	434700, 334600

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Product Use	[SU22] Professional uses: Public domain (administration, education, entertainment, services, craftsmen); [PC8] Biocidal products (e.g. Disinfectants, pest control);
Description	Disinfectant.

#### 1.3. Details of the supplier of the safety data sheet

Company	Neogen Corporation
Address	620 Leshar Place Lansing MI 48912 USA
Web	www.neogen.com
Telephone	517-372-9200/800-234-5333
Email	SDS@neogen.com

#### 1.4. Emergency telephone number

	24 hours: Medical: 1-800-498-5743 (U.S. and Canada) or 1-651-523-0318 (international) Spill/CHEMTREC: 1-800-424-9300 (U.S. and Canada) or 1-703-527-3887 (international)
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#### Further information

	Preserve International 944 Nandino Blvd. Lexington, KY 40511-1205 U.S.A.  Preserve International is a wholly-owned subsidiary of Neogen Corporation.
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### SECTION 2: Hazards identification

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


2.1.2. Classification - GHS	Acute Tox. 4: H302; Skin Corr. 1B: H314; Skin Sens. 1: H317; Resp. Sens. 1: H334; STOT SE 3: H335; Aquatic Chronic 1: H410;
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#### 2.2. Label elements

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## 2.2. Label elements

Hazard pictograms	
Signal Word	Danger
Hazard Statement	<p>Acute Tox. 4: H302 - Harmful if swallowed.          Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.          Skin Sens. 1: H317 - May cause an allergic skin reaction.          Resp. Sens. 1: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.          STOT SE 3: H335 - May cause respiratory irritation.          Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.</p>
Precautionary Statement: Prevention	<p>P260 - Do not breathe dust/fume/gas/mist/vapours/spray.          P264 - Wash thoroughly after handling.          P270 - Do not eat, drink or smoke when using this product.          P272 - Contaminated work clothing should not be allowed out of the workplace.          P273 - Avoid release to the environment.          P280 - Wear protective gloves/protective clothing/eye protection/face protection.          P284 - [In case of inadequate ventilation] wear respiratory protection.</p>
Precautionary Statement: Response	<p>P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.          P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.          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.          P312 - Call a POISON CENTER/doctor/ if you feel unwell.          P363 - Wash contaminated clothing before reuse.</p>
Precautionary Statement: Storage	P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
Precautionary Statement: Disposal	P501 - Dispose of contents/container to an approved hazardous/special waste disposal facility in accordance with local and national regulations

## 2.3. Other hazards

Other hazards	Read the entire label and follow all use directions, restrictions, and precautions.
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## SECTION 3: Composition/information on ingredients

## 3.2. Mixtures

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## 3.2. Mixtures

## EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
Phosphoric acid...% (Phosphoric acid)	015-011-00-6	7664-38-2	231-633-2		1 - 10%	Skin Corr. 1B: H314;
Alkyl dimethylbenzyl ammonium chloride		68391-01-5	269-919-4		20 - 30%	Acute Tox. 4: H302; Skin Corr. 1B: H314; Aquatic Acute 1: H400; Aquatic Chronic 1: H410;
Glutaral (Glutaraldehyde)	605-022-00-X	111-30-8	203-856-5		1 - 10%	Acute Tox. 2: H330; Acute Tox. 3: H301; STOT SE 3; H335; Skin Corr. 1B: H314; Resp. Sens. 1: H334; Skin Sens. 1: H317; Aquatic Acute 1: H400; Aquatic Chronic 2: H411;
tetrasodium ethylene diamine tetraacetate	607-428-00-2	64-02-8	200-573-9		1 - 10%	Acute Tox. 4: H302; Eye Dam. 1: H318;
Terpineol 900		98-55-5	202-680-6		1 - 10%	Acute Tox. 5: H303+H313; Skin Irrit. 2: H315; Eye Irrit. 2: H319; STOT SE 3: H335;
Pine oil 30		8002-09-3	304-455-9		1 - 10%	Flam. Liq. 3: H226; Asp. Tox. 1: H304; Skin Sens. 1: H317; Aquatic Chronic 1: H410;

## Description

Concentrations listed are not product specifications.

## Further information

Full text of Hazard Statements listed in this Section is provided in Section 16.

## SECTION 4: First aid measures

## 4.1. Description of first aid measures

Inhalation	Move the exposed person to fresh air. If breathing is difficult give oxygen. If breathing stops, provide artificial respiration. Call a poison control center or doctor for treatment advice.
Eye contact	Rinse immediately with plenty of water. Contact lenses should be removed. Call a poison control center or doctor for treatment advice.
Skin contact	Remove contaminated clothing. Wash with soap and water. Call a poison control center or doctor for treatment advice.
Ingestion	Call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Never give anything by mouth to an unconscious person.

## 4.2. Most important symptoms and effects, both acute and delayed

Inhalation	May be harmful if inhaled. May cause dizziness and headache. May cause irritation to respiratory system.
Eye contact	Causes serious eye damage. Causes severe inflammation and may damage the cornea.
Skin contact	Causes skin burns. Corrosive to living tissue. May cause allergic reactions in susceptible people. May cause dermatitis.
Ingestion	Harmful if swallowed. Causes burns. Corrosive to living tissue.

## 4.3. Indication of any immediate medical attention and special treatment needed

Remove the affected person from the source of contamination immediately. Transfer to hospital if there are burns or symptoms of poisoning. Seek medical attention if irritation or symptoms persist. If medical advice is needed, have product container or label at hand.

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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Use extinguishing media appropriate to the surrounding fire conditions.

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

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Do not allow runoff water to enter sewers or drains.

### 5.3. Advice for firefighters

Do not breathe dust or vapor. Wear suitable respiratory equipment when necessary.

## SECTION 6: Accidental release measures

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

Wear suitable protective clothing, gloves and eye/face protection. Appropriate local exhaust ventilation is required. Avoid prolonged or repeated exposure.

### 6.2. Environmental precautions

Prevent further spillage if safe. Clean spillage area thoroughly with plenty of water. Do not flush into surface water. Do not let product contaminate subsoil.

### 6.3. Methods and material for containment and cleaning up

Clean spillage area thoroughly with plenty of water. Do not contaminate water by cleaning of equipment or disposal of wastes.

### 6.4. Reference to other sections

See Section(s) 2, 8, and 13 for further information.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Adopt best Manual Handling considerations when handling, carrying and dispensing. Avoid contact with eyes. Do not eat, drink or smoke in areas where this product is used or stored. Ensure adequate ventilation of the working area. Do not contaminate water by cleaning of equipment or disposal of wastes. Read the entire label and follow all use directions, restrictions, and precautions. Use as appropriate: Protective clothing.

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

Store in correctly labelled containers. Keep container tightly closed. Do not contaminate water, food, or feed by storage or disposal. Follow label instructions.

### 7.3. Specific end use(s)

See Section(s) 1.2 for further information.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure Limit Values


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## Exposure Limit Values

Glutaral (Glutaraldehyde)	ACGIH TLV TWA: - Notations: SEN; A4 OSHA PEL 8hr TWA mg m3: - NIOSH REL 10hr TWA ppm: NIOSH REL 15 min ST ppm:	ACGIH TLV STEL: C 0.05 ppm OSHA PEL 8hr TWA ppm: - Skin Designation: - NIOSH REL 10hr TWA mg m3: NIOSH REL 15 min ST mg m3:
Phosphoric acid...% (Phosphoric acid)	ACGIH TLV TWA: 1 mg/m <sup>3</sup> Notations: - OSHA PEL 8hr TWA mg m3: 1 NIOSH REL 10hr TWA ppm: NIOSH REL 15 min ST ppm:	ACGIH TLV STEL: 3 mg/m <sup>3</sup> OSHA PEL 8hr TWA ppm: - Skin Designation: - NIOSH REL 10hr TWA mg m3: NIOSH REL 15 min ST mg m3:

## 8.2. Exposure controls

	
Appropriate engineering controls	Ensure adequate ventilation of the working area.
Individual protection measures	Use as appropriate: Protective equipment.
Eye / face protection	Wear: Approved safety goggles, Face shield.
Skin protection - Hand protection	Wear suitable gloves. Wash the outside of gloves before removing them. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.
Skin protection - Other	Use as appropriate: Protective clothing.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Occupational exposure controls	Exposure above the recommended occupational exposure limit (OEL) may cause adverse health effects. Protect clothing from contact with the product. Provide chemical shower. Provide eye wash station.
Further information	Refer to product label for additional PPE requirements and recommendations. Follow label instructions.

## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

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## 9.1. Information on basic physical and chemical properties

<b>State</b>	Liquid
<b>Color</b>	Light yellow
<b>Odor</b>	Characteristic
<b>pH</b>	3 - 4.5
<b>Relative density</b>	1.03 - 1.04
<b>Partition coefficient</b>	No data available
<b>Autoignition temperature</b>	No data available
<b>Viscosity</b>	No data available
<b>Oxidizing properties</b>	No data available
<b>Melting point</b>	No data available
<b>Freezing Point</b>	No data available
<b>Boiling point</b>	No data available
<b>Flash point</b>	No data available
<b>Evaporation rate</b>	No data available
<b>Odor threshold</b>	No data available
<b>Vapor pressure</b>	No data available
<b>Vapor density</b>	No data available
<b>Flammability limits</b>	Not applicable.
<b>Explosive properties</b>	Not applicable.
<b>Solubility</b>	Soluble in water

## 9.2. Other information

<b>VOC (Volatile organic compounds)</b>	No data available
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## SECTION 10: Stability and reactivity

## 10.1. Reactivity

	Stable under normal conditions.
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## 10.2. Chemical stability

	Stable under normal conditions.
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## 10.3. Possibility of hazardous reactions

	Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.
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## 10.4. Conditions to avoid

	Keep away from extreme temperatures.
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## 10.5. Incompatible materials

	Strong oxidizing agents.
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## 10.6. Hazardous decomposition products

	Carbon oxides.
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## SECTION 11: Toxicological information

## 11.1. Information on toxicological effects

<b>Acute toxicity</b>	Harmful if swallowed. May be harmful if inhaled.
<b>Skin corrosion/irritation</b>	Causes severe burns. Corrosive to living tissue.

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## 11.1. Information on toxicological effects

<b>Serious eye damage/irritation</b>	Causes serious eye damage. Causes severe inflammation and may damage the cornea.
<b>Respiratory or skin sensitization</b>	May cause allergic reactions in susceptible people. May cause sensitization by inhalation and skin contact. May cause dermatitis.
<b>Germ cell mutagenicity</b>	Adverse mutagenic and teratogenic effects have been found in laboratory animals.
<b>Carcinogenicity</b>	Not found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs, Volumes 1-123. Not listed in the National Toxicology Program (NTP) 14th Report on Carcinogens. Not listed in the American Conference of Governmental Industrial Hygienists (ACGIH) Guide to Occupational Exposure Values. Not listed in the OSHA standard 1910.1003 Carcinogens.
<b>Reproductive toxicity</b>	Adverse reproductive effects have been found in laboratory animals.
<b>STOT-single exposure</b>	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
<b>STOT-repeated exposure</b>	Component(s) may cause damage to human organs based on animal data.
<b>Aspiration hazard</b>	Potential for aspiration if swallowed.
<b>Repeated or prolonged exposure</b>	Avoid prolonged or repeated exposure. Exposure above the recommended occupational exposure limit (OEL) may cause adverse health effects. Delayed appearance of the complaints and development of hypersensitivity (difficult breathing, coughing, asthma) are possible.

## 11.1.2. Mixtures

	See Section(s) 3 for further information.
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## 11.1.3. Hazard Information

	See Section(s) 2 and 3 for further information.
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## 11.1.4. Toxicological information

	No data available
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## 11.1.5. Hazard Class

	See Section(s) 2 and 14 for further information.
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## 11.1.6. Classification Criteria

	Based on the Globally Harmonized System (GHS) considerations for the classification of mixtures. See Section 15 for regulatory citations.
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## 11.1.7. Information on likely routes of exposure

	Eye contact. Ingestion. Inhalation. Skin contact.
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## 11.1.8. Symptoms related to the physical, chemical and toxicological characteristics

	See Section(s) 4.2 for further information.
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## 11.1.9. Delayed and immediate effects as well as chronic effects from short and long-term exposure

	See Section(s) 4.2 for further information.
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## 11.1.10. Interactive effects

	No data available.
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## 11.1.11. Absence of specific data

	<1% of this mixture consists of ingredients of unknown acute toxicity.
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## 11.1.12. Mixture versus substance information

	See Section(s) 3 for further information.
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## 11.1.13. Other information

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## 11.1.13. Other information

No data available.

**SECTION 12: Ecological information**

## 12.1. Toxicity

No data available

## 12.2. Persistence and degradability

No data is available on this product.

## 12.3. Bioaccumulative potential

No data is available on this product.

## Partition coefficient

Synergize® NF No data available

## 12.4. Mobility in soil

No data is available on this product.

## 12.5. Results of PBT and vPvB assessment

No data is available on this product.

**SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

Dispose of in compliance with all local and national regulations. Follow label instructions.

## Disposal methods

Do not contaminate water by cleaning of equipment or disposal of wastes. Do not flush into surface water. Dispose of in compliance with all local and national regulations.

## Disposal of packaging

Nonrefillable container. Do not reuse or refill this container.  
 If empty: Do not reuse this container. Place in trash or offer for recycling, if available.  
 If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

**SECTION 14: Transport information**

## Hazard pictograms



## 14.1. UN number

UN1903

## 14.2. UN proper shipping name

DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Dimethylbenzyl ammonium chloride, Glutaraldehyde)



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## 14.3. Transport hazard class(es)

DOT	8
Subsidiary risk	-
IMDG	8
Subsidiary risk	-
IATA	8
Subsidiary risk	-

## 14.4. Packing group

Packing group	III
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## 14.5. Environmental hazards

Environmental hazards	No
Marine pollutant	No

## DOT

Hazard ID	80
Tunnel Category	(E)

## IMDG

EmS Code	F-A S-B
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## IATA

Packing Instruction (Cargo)	856
Maximum quantity	60 L
Packing Instruction (Passenger)	852
Maximum quantity	5 L

## SECTION 15: Regulatory information

## 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

<b>Regulations</b>	Hazard Communication Standard: 29 Code of Federal Regulations 1910.1200: Occupational Safety and Health Standards: Z: Toxic and Hazardous Substances: Hazard Communication.
<b>Chemical Inventories/Right-to-Know Lists:</b>	Toxic Substances Control Act (TSCA): All ingredients listed or exempt. Massachusetts Right-to-Know Hazardous Substance List: Phosphoric acid. New Jersey Worker and Community Right to Know Act: Phosphoric acid, Propylene glycol. Pennsylvania Right to Know Law: Pentanedial, Phosphoric acid, 1,2-Propanediol. Rhode Island Right-to-Know General Law: Glutaraldehyde, Phosphoric acid, Propylene glycol.  California Prop 65: This material contains no reportable components.

## Inventories

Ingredient	TSCA	MA	SARA313	CALPROP65	CWA307	CAA112	CWA311	SARA302	SARA304
Phosphoric acid...% (Phosphoric acid)	Y	Y	N	N	N	N	Y	N	N
Glutaral (Pentanedial)	Y	N	N	N	N	N	N	N	N
Propylene glycol (1,2-Propanediol)	Y	Y	N	N	N	N	N	N	N
tetrasodium ethylene diamine tetraacetate (Glycine, N,N'-1,2-ethanediybis[N-(carboxymethyl)-, tetrasodium salt])	Y	N	N	N	N	N	N	N	N

## Further information

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## Further information

FIFRA Signal Word FIFRA Warning	This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.
	DANGER.
	Keep out of reach of children. Hazards to humans and domestic animals. Corrosive. Causes eye damage and skin damage. May be fatal if inhaled. Harmful if swallowed or absorbed through the skin. Do not get in eyes, on skin, or on clothing. Do not breathe vapor or spray mist. Wear goggles or face shield and rubber gloves when handling this product. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

## SECTION 16: Other information

## Other information

Acronyms	<p>ADR/RID: European Agreements Concerning the International Carriage of Dangerous Goods by Rail (RID) and by Road (ADR).</p> <p>CAS No.: Chemical Abstracts Service.</p> <p>GHS: Globally Harmonized System.</p> <p>HCS 2012: Hazard Communication Standard (2012 revision).</p> <p>IATA: International Air Transport Association.</p> <p>ICAO: International Civil Aviation Organization.</p> <p>IMDG: International Maritime Dangerous Goods.</p> <p>LD: Lethal dose.</p> <p>OEL: Occupational exposure limit.</p> <p>OSHA: U.S. Occupational Safety and Health Administration.</p> <p>PEL: Permissible Exposure Limit.</p> <p>REACH: Registration, Evaluation, Authorization, and Restriction of Chemicals.</p> <p>SVHC: Substance of very high concern.</p> <p>US DOT: United States Department of Transportation.</p> <p>VOC: Volatile Organic Compound.</p> <p>WEL: Workplace Exposure Limit.</p>
Text of Hazard Statements in Section 3	<p>Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.</p> <p>Skin Irrit. 2: H315 - Causes skin irritation.</p> <p>Eye Irrit. 2: H319 - Causes serious eye irritation.</p> <p>Acute Tox. 4: H302 - Harmful if swallowed.</p> <p>Aquatic Acute 1: H400 - Very toxic to aquatic life.</p> <p>Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.</p> <p>Acute Tox. 3: H301 - Toxic if swallowed.</p> <p>Skin Sens. 1: H317 - May cause an allergic skin reaction.</p> <p>Acute Tox. 2: H330 - Fatal if inhaled.</p> <p>Resp. Sens. 1: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.</p> <p>STOT SE 3: H335 - May cause respiratory irritation.</p> <p>Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.</p> <p>Eye Dam. 1: H318 - Causes serious eye damage.</p> <p>Acute Tox. 5 - H303+H313 - May be harmful if swallowed or in contact with skin.</p> <p>Flam. Liq. 3: H226 - Flammable liquid and vapour.</p> <p>Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways.</p>

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## Further information

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