

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
OSHA GHS

Printing date 09.03.2015

Revision: 09.03.2015

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

- **1.1 Product identifier**
- **Trade name: P.V.S. 8 Water Based Duct Sealer**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture** Sealant
- **1.3 Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**
Mon-Eco Industries, Inc.
5 Joanna Ct.
East Brunswick, NJ 08816
Phone: 732-257-7942
- **1.4 Emergency telephone number:**
ChemTel Inc.
(800)255-3924, +1 (813)248-0585



MON-ECO INDUSTRIES, INCORPORATED

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
Classifications listed also are applicable to the OSHA GHS Hazard Communication Standard (29CFR1910.1200).
The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H411.



health hazard

Carc. 1B H350 May cause cancer.



environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

Lact. H362 May cause harm to breast-fed children.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



N; Dangerous for the environment

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R64: May cause harm to breastfed babies.

- **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

- **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

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The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is additionally classified and labelled according to the Globally Harmonized System within the United States (GHS).

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



This pictogram only applicable for EU regulations. Not for use in the United States (OSHA GHS).



GHS08 GHS09

Signal word Danger

Hazard-determining components of labelling:

Petroleum Distillates

Alkanes, chloro

Hazard statements

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H411.

H350 May cause cancer.

H362 May cause harm to breast-fed children.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P263 Avoid contact during pregnancy/while nursing.

P260 Do not breathe mist/vapours/spray.

P281 Use personal protective equipment as required.

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

P308+P313 IF exposed or concerned: Get medical advice/attention.

P391 Collect spillage.

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

Additional information:

Restricted to professional users.

Hazard description:

WHMIS-symbols: Not hazardous under WHMIS.

NFPA ratings (scale 0 - 4)



Health = 0

Fire = 0

Reactivity = 0

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· **HMIS-ratings (scale 0 - 4)**

HEALTH	0	Health = *0
FIRE	0	Fire = 0
REACTIVITY	0	Reactivity = 0

* - Indicates a long term health hazard from repeated or prolonged exposures.

· **HMIS Long Term Health Hazard Substances**

13463-67-7	titanium dioxide
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· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.





· **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**

· **Description:** Mixture of substances listed below with nonhazardous additions.


· **Dangerous components:**

	Vinyl-Acrylic copolymer  Xi R36/38  Skin Irrit. 2, H315; Eye Irrit. 2, H319	2,5-10%
CAS: 61788-76-9 EINECS: 263-004-3	Alkanes, chloro  N R50/53  Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Lact., H362	2,5-10%
CAS: 1332-58-7 EC number: 310-194-1	Kaolin substance with a Community workplace exposure limit	2,5-10%
CAS: 13463-67-7 EINECS: 236-675-5	titanium dioxide substance with a Community workplace exposure limit	≤ 2,5%
CAS: 57-55-6 EINECS: 200-338-0	Propylene Glycol substance with a Community workplace exposure limit	≤ 2,5%

· **SVHC**

9016-45-9	4-nonylphenyl-polyethylene glycol
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· **Dangerous Components (Alternative Classifications):**

CAS: 13463-67-7 EINECS: 236-675-5	titanium dioxide	 Carc. 2, H351	< 2,5%
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· **Additional information:**

For the listed ingredients, the identity and exact percentages are being withheld as a trade secret.

For the wording of the listed risk phrases refer to section 16.

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· **Notable Trace Components ($\leq 0,1\%$ w/w)**

CAS: 1897-45-6

EINECS: 217-588-1

Index number: 608-014-00-4

chlorothalonil (ISO)

T+ R26; Xn R40; Xi R37-41; Xi R43; N R50/53

Carc. Cat. 3

Acute Tox. 2, H330

Carc. 2, H351

Eye Dam. 1, H318

Aquatic Acute 1, H400; Aquatic Chronic 1, H410

Skin Sens. 1, H317; STOT SE 3, H335

SECTION 4: First aid measures

· **4.1 Description of first aid measures**

· **General information:** No special measures required.

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:**

Immediately remove any clothing soiled by the product.

Immediately wash with water and soap and rinse thoroughly.

If skin irritation is experienced, consult a doctor.

· **After eye contact:**

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:**

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

· **4.2 Most important symptoms and effects, both acute and delayed**

Slight irritant effect on eyes.

Slight irritant effect on skin and mucous membranes.

Gastric or intestinal disorders when ingested.

Nausea in case of ingestion.

· **Hazards**

May cause cancer.

May cause harm to breast-fed children.

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

No further relevant information available.

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**

· **Suitable extinguishing agents:**

Foam

Fire-extinguishing powder

Carbon dioxide

Water haze or fog

· **For safety reasons unsuitable extinguishing agents:** None.

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- **5.2 Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
- **5.3 Advice for firefighters**
- **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.
- **Additional information** No further relevant information available.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation
For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.
Wear protective equipment. Keep unprotected persons away.
Particular danger of slipping on leaked/spilled product.
- **6.2 Environmental precautions:**
Do not allow to enter sewers/ surface or ground water.
Inform respective authorities in case of seepage into water course or sewage system.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
Send for recovery or disposal in suitable receptacles.
- **6.4 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.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Use only in well ventilated areas.
Keep receptacles tightly sealed.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Provide ventilation for receptacles.
Avoid storage near extreme heat, ignition sources or open flame.
- **Information about storage in one common storage facility:**
Store away from foodstuffs.
Store away from oxidising agents.
- **Further information about storage conditions:** None.

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· **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

· **Additional information about design of technical facilities:** No further data; see item 7.· **8.1 Control parameters**· **Ingredients with limit values that require monitoring at the workplace:****1332-58-7 Kaolin**

PEL (USA)	Long-term value: 15* 5** mg/m ³ *total dust **respirable fraction
REL (USA)	Long-term value: 10* 5** mg/m ³ *total dust **respirable fraction
TLV (USA)	Long-term value: 2* mg/m ³ E; as respirable fraction
EL (Canada)	Long-term value: 2 mg/m ³
EV (Canada)	Long-term value: 2(D) mg/m ³ respirable

57-55-6 Propylene Glycol

WEEL (USA)	Long-term value: 10 mg/m ³
EV (Canada)	Long-term value: 155* 10** mg/m ³ , 50* ppm *vapour and aerosol; **aerosol only

13463-67-7 titanium dioxide

PEL (USA)	Long-term value: 15* mg/m ³ *total dust
REL (USA)	See Pocket Guide App. A
TLV (USA)	Long-term value: 10 mg/m ³ withdrawn from NIC
EL (Canada)	Long-term value: 10* 3** mg/m ³ *total dust; **respirable fraction; IARC 2B
EV (Canada)	Long-term value: 10 mg/m ³ total dust

· **DNELs** No further relevant information available.· **PNECs** No further relevant information available.· **Additional information:** The lists valid during the making were used as basis.· **8.2 Exposure controls**· **Personal protective equipment:**· **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Immediately remove all soiled and contaminated clothing.

Do not inhale gases / fumes / aerosols.

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- **Respiratory protection:**

Use suitable respiratory protective device in case of insufficient ventilation.

Use suitable respiratory protective device when high concentrations are present.

For spills, respiratory protection may be advisable.

NIOSH or EN approved organic vapor respirator equipped with a dust/mist prefilter should be used.

- **Protection of hands:**



Protective gloves

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

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

- **Material of gloves**

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.

- **Penetration time of glove material**

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

- **Eye protection:**



Safety glasses

- **Body protection:** Protective work clothing

- **Limitation and supervision of exposure into the environment**

No further relevant information available.

- **Risk management measures**

See Section 7 for additional information.

No further relevant information available.

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form: Pasty

Colour: White

- **Odour:** Mild

- **Odour threshold:** Not determined.

- **pH-value:** Not determined.

- **Change in condition**

Melting point/Melting range: Not Determined.

Boiling point/Boiling range: 100 °C (212 °F)

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- **Flash point:** Not applicable.
- **Flammability (solid, gaseous):** Not applicable.
- **Auto/Self-ignition temperature:** Not determined.
- **Decomposition temperature:** Not determined.
- **Self-igniting:** Product is not self-igniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Explosion limits:**
 - Lower:** Not determined.
 - Upper:** Not determined.
- **Vapour pressure at 20 °C (68 °F):** 17 mmHg
- **Density at 20 °C (68 °F):** 1,34 g/cm³ (11,182 lbs/gal)
- **Relative density** Not determined.
- **Vapour density** Not determined.
- **Evaporation rate** Not determined.
- **Solubility in / Miscibility with water:** Dispersible.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
 - Dynamic:** Not determined.
 - Kinematic:** Not determined.
- **9.2 Other information** No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions**
Toxic fumes may be released if heated above the decomposition point.
Reacts with strong acids and oxidising agents.
- **10.4 Conditions to avoid**
Store away from oxidising agents.
Keep away from heat and direct sunlight.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**
Carbon monoxide and carbon dioxide
Nitrogen oxides (NO_x)

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Hydrogen chloride (HCl)

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SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values relevant for classification:** None.
- **Primary irritant effect:**
- **on the skin:** Slight irritant effect on skin and mucous membranes.
- **on the eye:** Slight irritant effect on eyes.
- **Sensitisation:** No sensitising effects known.
- **Additional toxicological information:** May cause cancer.
- **Repeated dose toxicity:** May cause damage to organs through prolonged or repeated exposure.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):**
Carc. 1B, Lact.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** Toxic for aquatic organisms
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Toxic for fish
- **Additional ecological information:**
- **General notes:**
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into the ground.
Also poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms
Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- **14.1 UN-Number**
- **DOT**
- **ADR, IMDG, IATA**
- **14.2 UN proper shipping name**
- **DOT**
- **ADR**
- **IMDG**
- **IATA**
- **14.3 Transport hazard class(es)**
- **DOT, IMDG, IATA**
- **Class**
- **Label**
- **ADR**
- **Class**

UN3082

Classification as a MARINE POLLUTANT is based on MARPOL and DOT rules. Labeling as a MARINE POLLUTANT is not required for non-bulk single package shipments by motor vehicle, rail car or aircraft. Bulk packaging consists of a maximum capacity of greater than 450L (119 gallons) for a liquid and a maximum net mass greater than 400kg (882 pounds) for a solid.

UN3082

Environmentally hazardous substances, liquid, n.o.s.
(Alkanes, chloro)

3082 ENVIRONMENTALLY HAZARDOUS
SUBSTANCE, LIQUID, N.O.S. (Alkanes, chloro)
ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
LIQUID, N.O.S. (Alkanes, chloro), MARINE
POLLUTANT

ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
LIQUID, N.O.S. (Alkanes, chloro)

9 Miscellaneous dangerous substances and articles.

9



9 (M6) Miscellaneous dangerous substances and articles.

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<ul style="list-style-type: none"> · Label · 14.4 Packing group · DOT, ADR, IMDG, IATA · 14.5 Environmental hazards: · Marine pollutant: · Special marking (ADR): · Special marking (IATA): · 14.6 Special precautions for user · Danger code (Kemler): · EMS Number: · 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code · Transport/Additional information: 	<p style="text-align: right;">9</p> <p style="text-align: right;">III</p> <p style="text-align: right;">Yes Symbol (fish and tree)</p> <p style="text-align: right;">Symbol (fish and tree) Symbol (fish and tree)</p> <p style="text-align: right;">Warning: Miscellaneous dangerous substances and articles.</p> <p style="text-align: right;">90 F-A,S-F</p> <p style="text-align: right;">Not applicable.</p>
<ul style="list-style-type: none"> · ADR · Limited quantities (LQ) · Excepted quantities (EQ) · Transport category · Tunnel restriction code 	<p style="text-align: right;">5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml</p> <p style="text-align: right;">3 E</p>
<ul style="list-style-type: none"> · IMDG · Limited quantities (LQ) · Excepted quantities (EQ) · UN "Model Regulation": 	<p style="text-align: right;">5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Alkanes, chloro), 9, III</p>

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **United States (USA)**
- **SARA**

Section 355 (extremely hazardous substances):
--

None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):
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None of the ingredients are listed.

TSCA (Toxic Substances Control Act):

All ingredients are listed.

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- **Proposition 65 (California):**

- **Chemicals known to cause cancer:**

Reference to Carbon Black is based on unbound respirable particles and is not generally applicable to product as supplied.

Reference to Titanium Dioxide is based on unbound respirable particles and is not generally applicable to product as supplied.

Reference to Attapulgite is based on unbound respirable particles and is not generally applicable to product as supplied.

12174-11-7	Attapulgite (Palygorskite)
13463-67-7	titanium dioxide
1897-45-6	chlorothalonil (ISO)
1333-86-4	Carbon black

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

None of the ingredients are listed.

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

None of the ingredients are listed.

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

None of the ingredients are listed.

- **Carcinogenic Categories**

- **EPA (Environmental Protection Agency)**

None of the ingredients are listed.

- **IARC (International Agency for Research on Cancer)**

13463-67-7	titanium dioxide	2B
12174-11-7	Attapulgite (Palygorskite)	2B

- **TLV (Threshold Limit Value established by ACGIH)**

1332-58-7	Kaolin	A4
13463-67-7	titanium dioxide	A4

- **NIOSH-Ca (National Institute for Occupational Safety and Health)**

13463-67-7	titanium dioxide
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- **Canada**

- **Canadian Domestic Substances List (DSL)**

All ingredients are listed.

- **Canadian Ingredient Disclosure list (limit 0.1%)**

None of the ingredients are listed.

- **Canadian Ingredient Disclosure list (limit 1%)**

None of the ingredients are listed.

- **Other regulations, limitations and prohibitive regulations**

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

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· **Substances of very high concern (SVHC) according to REACH, Article 57**

9016-45-9	4-nonylphenyl-polyethylene glycol
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· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 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.

· **Relevant phrases**

H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H362 May cause harm to breast-fed children.
 H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.

R36/38 Irritating to eyes and skin.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 DOT: US Department of Transportation
 IATA: International Air Transport Association
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 ACGIH: American Conference of Governmental Industrial Hygienists
 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)
 WHMIS: Workplace Hazardous Materials Information System (Canada)
 DNEL: Derived No-Effect Level (REACH)
 PNEC: Predicted No-Effect Concentration (REACH)
 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
 Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
 Carc. 1B: Carcinogenicity, Hazard Category 1B
 Lact.: Reproductive toxicity, Additional category, Effects on or via lactation
 Aquatic Acute 1: Hazardous to the aquatic environment - Acute Hazard, Category 1
 Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1
 Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

· **Sources**

SDS Prepared by:
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