



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 21.06.2022

Version number 17.0 (replaces version 16.0)

Revision: 21.06.2022

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

- **1.1 Product identifier**
- **Trade name: KEIM LIGNOSIL-COLOR**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture** Silicate-based wood-paint for exterior use.
- **Uses advised against** All other uses are not recommended.
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
KEIM MINERAL PAINTS LTD
Santok Building / Deer Park Way, Donnington Wood GB-Telford, Shropshire TF2 7NA
Tel +44 1952 231 250 / Fax +44 1952 231 251
www.keim.com / sales@keimpaints.co.uk
- **Further information obtainable from:**
David Pratt
Telefon: +44 1952 231250
E-Mail: sales@keimpaints.co.uk
- **1.4 Emergency telephone number:**
GBK GmbH Global Regulatory Compliance
Emergency number: +49(0)6132/84463

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the GB CLP regulation.
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements**
H412 Harmful to aquatic life with long lasting effects.
- **Precautionary statements**
P102 Keep out of reach of children.
P280 Wear protective gloves/protective clothing/eye protection.
P273 Avoid release to the environment.
P501 Dispose of contents/container in accordance with regional/national regulations.
- **Additional information:**
EUH208 Contains propiconazole (ISO), 3-iodo-2-propynyl butylcarbamate, 2-methylisothiazol-3(2H)-one. May produce an allergic reaction.
EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
- **2.3 Other hazards** Alkaline product. Avoid contact with skin and eyes.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable

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· **vPvB:** Not applicable

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Description:

Exterior paint on silicate base with light-resistant, inorganic pigments and mineral fillers.

· Dangerous components:

CAS: 13463-67-7 EINECS: 236-675-5 Index number: 022-006-00-2 Reg.nr.: 01-2119486799-10-xxxx	titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$] 	2.5-10%
CAS: 1312-76-1 EINECS: 215-199-1 Reg.nr.: 01-2119456888-17-xxxx	Silicic acid, potassium salt Specific concentration limits: Skin Irrit. 2; H315: C ≥ 40 % Eye Irrit. 2; H319: C ≥ 40 % STOT SE 3; H335: C ≥ 40 %	$\leq 2.5\%$
CAS: 60207-90-1 EINECS: 262-104-4 Index number: 613-205-00-0	propiconazole (ISO) 	$\geq 0.1 < 0.25\%$
CAS: 55406-53-6 EINECS: 259-627-5 Index number: 616-212-00-7	3-iodo-2-propynyl butylcarbamate 	$\geq 0.1 < 0.25\%$
CAS: 2682-20-4 EINECS: 220-239-6 Index number: 613-326-00-9	2-methylisothiazol-3(2H)-one Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.0015 %	$< 0.0015\%$

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· General information:

With appearance of symptoms or in cases of doubt seek medical advice .

When seeing the doctor we suggest to present this safety data sheet.

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- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
Do not use solvents or thinners.
If skin irritation continues, consult a doctor.
- **After eye contact:**
Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:**
Rinse mouth and throat well with water.
Do not induce vomiting; call for medical help immediately.
- **4.2 Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **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:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **5.2 Special hazards arising from the substance or mixture**
Harmful and flammable vapour is released during pyrolysis.
In case of fire, the following can be released:
carbon oxide (CO_x)
acrylic monomers
Hydrogen fluoride (HF)
- **5.3 Advice for firefighters**
- **Special protective equipment:** Wear self-contained respiratory protective device.
- **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
In case of fire do not breathe smoke, fumes and vapours.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Respect the protection rules (see section 7 a. 8).
Avoid contact with skin and eyes.
Particular danger of slipping on leaked/spilled product.
- **6.2 Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Follow local governmental rules and regulations.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Close drainages (risk of blocking due to polymer precipitation)
Dispose of the material collected according to regulations.

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Flush rests with sufficient amount of water.
Clear contaminated areas thoroughly.

· **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**

Keep receptacles tightly sealed.
Ensure good ventilation/exhaustion at the workplace.
Avoid contact with skin and eyes.
Do not inhale aerosols.
See item 8 (8.2) for information about suitable protective equipment and technical precautions.
Respect the protection rules.

· **Information about fire - and explosion protection:**

The product is not flammable.
No special measures required.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Keep in the original containers in a cool and dry place.
Store only in unopened original receptacles.
Unsuitable material for receptacles and pipes:
iron and ferrous metals
Suitable material for receptacles and pipes:
Polyethylene

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:**

Protect from frost.
Store in a cool place.
Protect from heat and direct sunlight.

· **Storage class:** 12

· **General information:** Stir up well before use.

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

SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

13463-67-7 titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]

WEL	Long-term value: 10* 4** mg/m ³ *total inhalable **respirable
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- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures:**
 - Avoid contact with the eyes and skin.
 - Do not inhale aerosols.
 - Wash hands before breaks and at the end of work.
 - Immediately remove all soiled and contaminated clothing.
- **Respiratory protection:**
 - Use suitable respiratory protective device only when aerosol or mist is formed.
 - Combination filter A/P
- **Hand protection** Protective gloves
- **Material of gloves**
 - suitable material e.g.:
 - Nitrile impregnated cotton-gloves
 - Nitrile rubber, NBR
 - Butyl rubber, BR
 - PVC or PE gloves
 - Recommended thickness of the material: ≥ 0.5 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.
- **Penetration time of glove material**
 - Value for the permeation: level ≥ 6 (480 min)
 - The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.
 - The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye/face protection** Tightly sealed goggles
- **Body protection:** Protective work clothing
- **Environmental exposure controls**
 - See Section 12 and 6.2
 - No further relevant information available.

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Physical state** Fluid
- **Colour:** Different, according to colouring.
- **Odour:** Weak, characteristic
- **Odour threshold:** Not determined
- **Melting point/freezing point:** Not determined

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· Boiling point or initial boiling point and boiling range	Not determined
· Flammability	Not applicable
· Lower and upper explosion limit	
· Lower:	Not applicable
· Upper:	Not applicable
· Flash point:	Not applicable
· Ignition temperature:	Not determined
· Decomposition temperature:	Not determined
· pH at 20 °C	~11*
· Viscosity:	
· Kinematic viscosity	Not determined
· Dynamic at 20 °C:	800-1100* mPas
· Solubility	
· water:	Miscible
· Partition coefficient n-octanol/water (log value)	Not applicable
· Vapour pressure at 20 °C:	~23 hPa
· Density and/or relative density	
· Density at 20 °C:	1.4-1.6* g/cm ³
· Relative density	Not determined
· Vapour density	Not applicable.
· 9.2 Other information	* The values are for freshly produced material and may change with the time.
· Appearance:	
· Form:	Pasty
· Important information on protection of health and environment, and on safety.	
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product does not present an explosion hazard.
· Solvent content:	
· VOC (EC)	≥0.26-<0.59 %
· Change in condition	
· Softening point/range	
· Oxidising properties:	Not applicable
· Evaporation rate	Not applicable
· Information with regard to physical hazard classes	
· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Void
· Flammable solids	Void

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· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability** Stable under normal conditions of storage and use.
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:**
Acids
Metals
- **10.6 Hazardous decomposition products:**
At high temperature formation of flammable and harmful products.
In case of fire, the following can be released:
Carbon oxides (CO_x)
acrylic monomers
Hydrogen fluoride
No hazardous decomposition products if stored and handled as prescribed.

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity**

- **LD/LC50 values relevant for classification:**

13463-67-7 titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]

Inhalative	ATE mix (4h)	>5 mg/l (inhalative)
	ATE mix	>2,000 mg/kg (dermal) >2,000 mg/kg (orally)
	NOAEL	3,500 mg/kg /Oral (rat) (90d)

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60207-90-1 propiconazole (ISO)

Oral	LD50	1,517 mg/kg (rat)
Dermal	LD50	>4,000 mg/kg (rat)

55406-53-6 3-iodo-2-propynyl butylcarbamate

Oral	LD50	>300-500 mg/kg (rat) (OECD 423)
Dermal	LD50	>5,000 mg/kg (rat) (OECD 402)
	NOAEL	20 mg/kg /oral, 2a (rat)

1312-76-1 Silicic acid, potassium salt

Oral	LD50	>5,000 mg/kg (rat) (OECD 401)
Dermal	LD50	>5,000 mg/kg (rat) (OECD 402)
Inhalative	LC50/4 h	>5 mg/l (rat)

2682-20-4 2-methylisothiazol-3(2H)-one

Oral	LD50	235 mg/kg (rat) (male) 183 mg/kg (rat) (female)
Dermal	LD50	242 mg/kg (rat) (OECD 402)

- **Skin corrosion/irritation** Frequent persistent contact with the skin may cause skin irritation.

- **Serious eye damage/irritation**

In case of longer exposure, slightly irritating effect to the eyes is possible.

- **during inhalation:** Irritant effect possible.

- **during swallowing:** Irritant effect possible

- **Respiratory or skin sensitisation**

Contains Propiconazol (ISO) , MIT, IPBC. May produce an allergic reaction.

MIT = 2-methylisothiazol-3(2H)-one

IPBC = 3-iodo-2-propynyl butylcarbamate

- **Other information (about experimental toxicology):**

Experimental analysis are not available.

The product was not tested. The statements on toxicology have been derived from the properties of the individual components.

- **Subacute to chronic toxicity:**

- **Repeated dose toxicity**

13463-67-7 titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$]

Inhalative	NOAEC	10 mg/m ³ (rat) (90d)
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- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)** Not applicable

- **11.2 Information on other hazards**

- **Endocrine disrupting properties**

60207-90-1	propiconazole (ISO)
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SECTION 12: Ecological information

12.1 Toxicity**Aquatic toxicity:**

Harmful to aquatic organisms.

May cause long-term adverse effects in the aquatic environment.

13463-67-7 titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$]

NOEC	$\geq 100,000$ mg/kg (Freshwater sediment) Hyalella azteca
EC50	>100 mg/kg (Freshwater algae) (OECD 201)
EC 50	$>10,000$ mg/l (algae) (ISO 10253)
LC 50	$>10,000$ mg/l (marine fish) (OECD 203) $>1,000$ mg/l (freshwater fish) (EPA-540/9-85-006) $>1,000$ mg/l (daphnia) (OECD 202)

60207-90-1 propiconazole (ISO)

EC 50/48h	10.2 mg/l (daphnia) (OECD 202)
EC 50/96h	0.51 mg/l (Mysidopsis bahia)
EC 50/72 h	0.76 mg/l (algae)
LC 50/96 h	4.3 mg/l (fish) (OECD 203)

55406-53-6 3-iodo-2-propynyl butylcarbamate

NOEC	0.0046 mg/l /(72h) (algae) (OECD 201) 0.0084 mg/l /(35d) (fish) (OECD 210) 0.05 mg/l (daphnia) (21d)
EC 50/48h	0.16 mg/l (daphnia) (OECD 202)
EC 50/3h	44 mg/l (activated sludge) 3h
EC 50/72 h	0.022 mg/l (algae) (OECD 201)
LC 50/96 h	0.067 mg/l (freshwater fish) (OECD 203)

1312-76-1 Silicic acid, potassium salt

NOEC	>1 mg/l (fish) >1 mg/l (invertebrates)
EC 50/48h	>100 mg/l (daphnia) (OECD 202)
EC 50/72 h	>100 mg/l (algae)
LC 50/96 h	>100 mg/l (fish) (DIN EN ISO 7346-2)
EC 0	$>1,000$ mg/l (activated sludge) (30min)

2682-20-4 2-methylisothiazol-3(2H)-one

NOEC	2.1 mg/l (fish) (33d) 0.04 mg/l (daphnia) (21d)
EC 50/72 h	0.158 mg/l (algae) (OECD 201)

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LC 50/96 h	4.77 mg/l (Oncorhynchus mykiss) (OECD 203)
LC 50/48h	0.93-1.9 mg/l (daphnia)
LC50/EC50/IC50	<1 mg/l (fish)

· **12.2 Persistence and degradability** No further relevant information available.

· **Other information:**

Elimination in biological waste water treatment plants is effected by flocculation, precipitation and adsorption on sewage sludge.

· **12.3 Bioaccumulative potential**

60207-90-1 propiconazole (ISO)

LogPow | 3.72 (n-Octanol/ H₂O) (OECD 107)

55406-53-6 3-iodo-2-propynyl butylcarbamate

LogPow | 2.8 (n-Octanol/ H₂O) (Prüfbericht)

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

· **12.5 Results of PBT and vPvB assessment**

· **PBT:** Not applicable

· **vPvB:** Not applicable

· **12.6 Endocrine disrupting properties**

For information on endocrine disrupting properties see section 11.

· **12.7 Other adverse effects**

· **Other information:** Pretreat waste water with help of precipitation.

· **Additional ecological information:**

· **AOX-indication:**

Due to the substance of content which do include organic jointed halogens, the product can take influence on the AOX-load of the waste water.

· **According to the formulation contains the following heavy metals and compounds from the EU guideline NO. 2006/11/EC:**

The product contains TiO₂, ZnS.

· **General notes:**

Do not allow product to reach ground water, water course or sewage system.

At present there are no ecotoxicological assessments.

The statements on ecotoxicology have been derived from the properties of the individual components.

Harmful to aquatic organisms

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation**

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

Disposal must be made according to official regulations.

· **European waste catalogue**

08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
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- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary with cleansing agents.

SECTION 14: Transport information

· 14.1 UN number or ID number · ADR, IMDG, IATA	Void
· 14.2 UN proper shipping name · ADR, IMDG, IATA	Void
· 14.3 Transport hazard class(es) · ADR, IMDG, IATA · Class	Void
· 14.4 Packing group · ADR, IMDG, IATA	Void
· 14.5 Environmental hazards: · Marine pollutant:	No
· 14.6 Special precautions for user	Not applicable
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable
· Transport/Additional information:	No dangerous good in sense of these transport regulations.
· UN "Model Regulation":	Void

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to Regulation (EC) No 1272/2008**
For information on labelling please refer to section 2 of this document.
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **National regulations:**
- **Waterhazard class:** Water hazard class 2 (Self-assessment): hazardous for water.
- **Other regulations, limitations and prohibitive regulations**
- **Please note:**
TRGS 200 (Germany)
TRGS 500 (Germany)

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TRGS 510 (Germany)

TRGS 900 (Germany)

· **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

- H301 Toxic if swallowed.
- H302 Harmful if swallowed.
- H311 Toxic in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H330 Fatal if inhaled.
- H331 Toxic if inhaled.
- H335 May cause respiratory irritation.
- H351 Suspected of causing cancer.
- H360D May damage the unborn child.
- H372 Causes damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- EUH071 Corrosive to the respiratory tract.

· **Department issuing SDS:** KEIMFARBEN Germany, Product safety department

· 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
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- 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)
- TRGS: Technische Regeln für Gefahrstoffe (Technical Rules for Dangerous Substances, BAuA, Germany)
- 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
- EC10: Effective concentration at 10% mortality rate.
- EC50: Half maximal effective concentration.
- LC10: Lethal concentration at 10% mortality rate.
- NOEC: No observed effect concentration.
- UK REACH: Registration, Evaluation and Authorisation of Chemicals (Regulation (EC) No.1907/2006)
- Acute Tox. 4: Acute toxicity – Category 4
- Acute Tox. 2: Acute toxicity – Category 2
- Acute Tox. 3: Acute toxicity – Category 3
- Skin Corr. 1B: Skin corrosion/irritation – Category 1B
- Skin Irrit. 2: Skin corrosion/irritation – Category 2

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Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1A: Skin sensitisation – Category 1A
Carc. 2: Carcinogenicity – Category 2
Repr. 1B: Reproductive toxicity – Category 1B
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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