

SAFETY DATA SHEET

Version: 03
Date of Issue: 23 November 2018
Date of First Issue: 24 August 2012


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SAFETY DATA SHEET ACCORDING TO EC-REGULATIONS 1907/2006
(REACH), 1272/2008 (CLP) & 2015/830

1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1 Product identifier**
Product Name H Cement Thinner
CAS No. Mixture
EINECS No. Mixture
REACH Registration No. None assigned.
- 1.2 Recommended use of the chemical and restrictions on use**
Identified Use(s) PC14 Metal surface treatment products, including galvanic and electroplating products
Uses Advised Against For professional users only.
- 1.3 Supplier's details**
Company Identification VISHAY MEASUREMENTS GROUP UK LTD
Stroudley Road
Basingstoke
Hampshire
RG24 8FW
United Kingdom
Telephone +44 (0) 1256 462131
Fax +44 (0) 1256 471441
E-Mail (competent person) mm.uk@vishaypg.com
- 1.4 Emergency Phone No.** (00-1) 703-527-3887 – CHEMTREC
Languages spoken 24 hours, English spoken

2. SECTION 2: HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture**
2.1.1 Regulation (EC) No. 1272/2008 (CLP) Met. Corr. 1; H290
Acute Tox. 4; H332
Skin Irrit. 2; H315
Skin Sens. 1; H317
Eye Dam. 1; H318
Resp. Sens. 1; H334
STOT SE 3; H335
Muta. 1B; H340
Carc. 1A; H350
Repr. 2; H361f
STOT RE 2; H373
Aquatic Chronic 2; H411
- 2.2 Label elements**
Product Name H Cement Thinner
Hazard Pictogram(s) 
- Signal Word(s) DANGER
- Contains: Phosphoric acid and Chromium (VI) trioxide
- Hazard Statement(s) H290: May be corrosive to metals.
H315: Causes skin irritation.

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H317: May cause an allergic skin reaction.
H318: Causes serious eye damage.
H332: Harmful if inhaled.
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335: May cause respiratory irritation.
H340: May cause genetic defects.
H350: May cause cancer.
H361f: Suspected of damaging fertility.
H373: May cause damage to organs through prolonged or repeated exposure.
H411: Toxic to aquatic life with long lasting effects.

Precautionary Statement(s)

P201: Obtain special instructions before use.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P304+P341: IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P342 + P311: If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310: Immediately call a POISON CENTER/doctor.

Additional Information

None.

2.3 Other hazards

None.

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances Not applicable

3.2 Mixtures Substances in preparations / mixtures

EC Classification Regulation (EC) No. 1272/2008 (CLP)

Chemical identity of the substance	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard Statement(s)
Phosphoric Acid	15 - 25	7664-38-2	231-633-2/ 616-646-7	Not yet assigned in the supply chain	Met. Corr. 1; H290 Skin Corr. 1B; H314 (SCL: \geq 25%)
Chromium (VI) Trioxide	1 - 5	1333-82-0	215-607-8	Not yet assigned in the supply chain	Ox. Sol. 1; H271 Acute Tox. 3; H301 Acute Tox. 3; H311 Acute Tox. 2; H330 Skin Corr. 1A; H314 Skin Sens. 1; H317 Resp. Sens. 1; H334 Muta. 1B; H340 Carc. 1A; H350 Repr. 2; H361f STOT SE 3; H335 (SCL: \geq 1%) STOT RE 1; H372 Aquatic Acute 1; H400 Aquatic Chronic 1; H410

For full text of H/P Statements see section 16.

4. SECTION 4: FIRST AID MEASURES



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4.1 Description of first aid measures

Self-protection of the first aider

Wear suitable protective clothing. Avoid all contact. Avoid breathing vapours. Do not employ mouth-to-mouth method. A washing facility/water for eye and skin cleaning purposes should be present.

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. If unconscious, place in recovery position and get medical attention immediately. Apply artificial respiration if necessary. Do not employ mouth-to-mouth method. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. IF exposed or concerned: Get medical advice/attention.

Skin Contact

IF ON SKIN: Remove contaminated clothing and wash all affected areas with plenty of water. Contaminated clothing should be thoroughly cleaned. If skin irritation or rash occurs: Get medical advice/attention. IF exposed or concerned: Get medical advice/attention.

Eye Contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if eye irritation develops or persists. Obtain prompt consultation, preferably from an ophthalmologist.

Ingestion

IF SWALLOWED: Rinse mouth with water (only if the person is conscious). Drink two glasses of water. Do not induce vomiting. Allow the patient to drink 5 - 10 g ascorbic acid (not effervescent tablets) dissolved in water. This dose can be repeated several times. Obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. May cause genetic defects. May cause cancer. Suspected of damaging fertility. May cause damage to organs through prolonged or repeated exposure.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Chemical eye burns may require extended irrigation. Due to possible delayed effect of poisoning and for safety reasons, they should be kept under medical observation for at least 48 hours.

Notes to a physician:

IF ON SKIN: If the skin becomes scratched or wounded, dab it with saturated gauze pads or compresses using a freshly made up ascorbic acid solution (10 g in 100 g water).

IF IN EYES: Obtain prompt consultation, preferably from an ophthalmologist. Chemical eye burns may require extended irrigation.

5. SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing media

As appropriate for surrounding fire. Extinguish preferably with foam, carbon dioxide or dry chemical.

Unsuitable extinguishing media

Do not use water jet. Direct water jet may spread the fire.

5.2 Special hazards arising from the substance or mixture

May decompose in a fire giving off toxic fumes. May decompose in a fire giving off toxic fumes. Carbon monoxide, Carbon dioxide, metal oxides/oxides and Oxides of phosphorus.

5.3 Advice for fire-fighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Avoid run off to waterways and sewers.

6. SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Stop leak if safe to do so. Eliminate all ignition sources if safe to do so. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid all contact. Use personal protective equipment as required. Avoid breathing vapours.

6.2 Environmental precautions

Avoid release to the environment. Do NOT wash away into sewer. Spillages or

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- 6.3 **Methods and material for containment and cleaning up** uncontrolled discharges into watercourses must be alerted to the Environment Agency or other appropriate regulatory body.
Adsorb spillages onto sand, earth or any suitable adsorbent material. Neutralize with: slaked lime (calcium hydroxide), sodium carbonate, calcium carbonate or sodium bicarbonate. Use only non-sparking tools. Transfer to a container for disposal. Dispose of this material and its container as hazardous waste.
- 6.4 **Reference to other sections** See Section: 8, 13

7. SECTION 7: HANDLING AND STORAGE

- 7.1 **Precautions for safe handling** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Ensure adequate ventilation. Avoid all contact. Do not breathe vapour. Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. See Section: 8.
- 7.2 **Conditions for safe storage, including any incompatibilities** Store in a well-ventilated place. Keep container tightly closed. Keep away from heat, sources of ignition and direct sunlight.
Storage temperature: Ambient. 5 - 25°C
Storage life: Stable under normal conditions.
Incompatible materials: Keep away from: Combustible materials, Alkalis, Reducing agents, Strong oxidising agents, Acids and metals. Keep away from water.
- Reacts violently with strong alkalis. Direct contact with alkalis may produce hydrogen gas. Hydrogen gas is released in contact with most metals. Exothermic reaction with water. May be corrosive to metals.
- 7.3 **Specific end use(s)** Suitable containers: Keep only in original container.
See Section: 1.2.

8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 **Control parameters**
8.1.1 **Occupational Exposure Limits**

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Note
Phosphoric Acid	7664-38-2	-	1	-	2	WEL

Note: WEL: Workplace Exposure Limit (UK HSE EH40)

- 8.1.2 **Biological limit value** Not established.
- 8.1.3 **PNECs and DNELs** Not established.
- 8.2 **Exposure controls**
- 8.2.1 **Appropriate engineering controls** Ensure adequate ventilation or use appropriate containment. Atmospheric levels should be controlled in compliance with the occupational exposure limit. Guarantee that the eye flushing systems and safety showers are located close to the working place.
- 8.2.2 **Individual protection measures, such as personal protective equipment (PPE)** General hygiene measures for the handling of chemicals are applicable. Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier. Avoid all contact. Do not breathe vapour. Wash hands before breaks and after work. Keep work clothes separately. Contaminated clothing should be thoroughly cleaned. Do not eat, drink or smoke at the work place.
- Eye/ face protection: Wear protective eye glasses for protection against liquid splashes. Wear eye protection with side protection (EN166).

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Skin protection



Hand protection: Wear impervious gloves (EN374). Gloves should be changed regularly to avoid permeation problems. Breakthrough time of the glove material: refer to the information provided by the gloves' producer.

Respiratory protection



Body protection: Chemical protection suit, boots and plastic gloves.

Do not use in areas without adequate ventilation. In case of inadequate ventilation wear respiratory protection. A suitable mask with filter type P may be appropriate.

Thermal hazards

Not applicable.

8.2.3 Environmental Exposure Controls

Avoid release to the environment.

9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Yellow-Red Liquid
Odour	No odour
Odour threshold	Not available.
pH	Not established.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	104°C (Mixture)
Flash point	Not applicable.
Evaporation rate	Not available.
Flammability (solid, gas)	Non-flammable.
Upper/lower flammability or explosive limits	Not available.
Vapour pressure	23.7 mmHg @ 20°C
Vapour density	0.7 (Air = 1)
Relative density	1.28 (Water =1)
Solubility(ies)	Miscible
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature	Not available.
Decomposition Temperature	Not available.
Viscosity	Not available.
Explosive properties	Not explosive
Oxidising properties	Not oxidising.

9.2 Other information

None known.

10. SECTION 10: STABILITY AND REACTIVITY

10.1 Stability and reactivity

May be corrosive to metals.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Reacts violently with strong alkalis. Direct contact with alkalis may produce hydrogen gas. Hydrogen gas is released in contact with most metals. Exothermic reaction with water. At high temperature formation of phosphorous oxides.

10.4 Conditions to avoid

Keep away from water.

10.5 Incompatible materials

Keep away from: Combustible materials, Alkalis, Reducing agents, Strong oxidising agents, Acids and metals.

10.6 Hazardous decomposition product(s)

May decompose in a fire giving off toxic fumes. Carbon monoxide, Carbon dioxide, and possibly chromium. Thermal decomposition may yield phosphoric oxide.

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11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects (Substances in preparations / mixtures)

Acute toxicity

Ingestion

Based upon the available data, the classification criteria are not met.
Acute Toxicity Estimate Mixture Calculation: Estimated LC50 > 2000 mg/kg bw/day.

Inhalation

Acute Tox. 4: Harmful if inhaled.

Chromium (VI) Trioxide

Acute Toxicity Estimate Mixture Calculation: Estimated LC50 10 mg/l.

Acute Tox. 2; H330 Harmonised Classification

Skin Contact

No data

Based upon the available data, the classification criteria are not met.

Acute Toxicity Estimate Mixture Calculation: Estimated LC50 > 2000 mg/kg bw/day.

Skin corrosion/irritation

Phosphoric acid

Skin Irrit. 2; Causes skin irritation.

Skin Corr. 1B; H314

Chromium (VI) Trioxide

Corrosive to skin. (rabbit) (Unnamed, 1980)

Skin Corr. 1A; H314

Serious eye damage/irritation

Chromium (VI) Trioxide

Corrosive to skin. (rabbit) (Unnamed, 1983)

Eye Dam. 1: Causes serious eye damage.

Eye Dam. 1; H318

Corrosive to eyes. (rabbit) (Unnamed, 1979)

Respiratory or skin sensitization

Chromium (VI) Trioxide

Skin Sens. 1: May cause an allergic skin reaction.

Resp. Sens. 1: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin Sens. 1; H317

Skin sensitization: No data

Resp. Sens. 1; H334

Respiratory sensitization: No data

Germ cell mutagenicity

Chromium (VI) Trioxide

Muta. 1B: May cause genetic defects.

Muta. 1B; H340

In vitro: Evidence of genotoxicity. (EU Risk Assessment Report, 2005)

In vivo: Evidence of genotoxicity. (EU Risk Assessment Report, 2005)

Carcinogenicity

Chromium (VI) Trioxide

Carc. 1A: May cause cancer.

Carc. 1A; H350

Animal carcinogen (EU Risk Assessment Report, 2005)

Reproductive toxicity

Chromium (VI) Trioxide

Repr. 2: Suspected of damaging fertility.

Repr. 2; H361f

Developmental toxicity: LOAEL (mouse) mg/kg bw/day: 60 (EU Risk Assessment Report, 2005)

STOT - single exposure

Chromium (VI) Trioxide

STOT SE 3: May cause respiratory irritation.

STOT SE 3; H335

Irritating to respiratory system. (rat)(Inhalation) (Unnamed, 1989)

STOT - repeated exposure

Chromium (VI) Trioxide

STOT RE 2: May cause damage to organs through prolonged or repeated exposure.

STOT RE 1; H372

Oral: NOAEL (rat) mg/kg bw/day: 24 (Unnamed, 1996)

Inhalation: LOAEC (mouse) mg/m³ 3.63. Effects and Symptoms: Respiratory tract Irritation (Adachi S, 1986)

Dermal: No data

Based upon the available data, the classification criteria are not met.

Aspiration hazard

11.2 Other information

None.

12. SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Chromium (VI) Trioxide

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

Estimated Mixture LC50 > 1 ≤ 10 mg/l (Fish)

Aquatic Acute 1; H400

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		Aquatic Chronic 2; H410 Acute: LC50 (fish) mg/l: 13 – 120 (96 hour) (Several species) (EU Risk Assessment Report, 2005) Chronic: NOEC 0.05 – 0.92 (30 Days) (Several species) (EU Risk Assessment Report, 2005)
12.2	Persistence and degradability	The methods for determining the biological degradability are not applicable to inorganic substances.
	Phosphoric acid	Not applicable for inorganic substances
	Chromium (VI) Trioxide	Not applicable for inorganic substances
12.3	Bioaccumulative potential	No data for the mixture as a whole.
	Phosphoric acid	Not applicable for inorganic substances
	Chromium (VI) Trioxide	Not applicable for inorganic substances
12.4	Mobility in soil	The product is predicted to have moderate mobility in soil.
	Phosphoric acid	Not applicable for inorganic substances
	Chromium (VI) Trioxide	Not applicable for inorganic substances
12.5	Results of PBT and vPvB assessment	Not classified as PBT or vPvB. None of the substances in this product fulfil the criteria for being regarded as a PBT or vPvB substance.
12.6	Other adverse effects	None known.

13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1	Waste treatment methods	Do not release undiluted and unneutralised to the sewer. This material and its container must be disposed of as hazardous waste. Containers must be decontaminated in accordance with all applicable regulations.
13.2	Additional Information	Dispose of contents in accordance with local, state or national legislation.

14. SECTION 14: TRANSPORT INFORMATION

	ADR/RID	IMDG	IATA
14.1	UN number	UN 1760	UN 1760
14.2	Proper Shipping Name	CORROSIVE LIQUID N.O.S	CORROSIVE LIQUID N.O.S
14.3	Transport hazard class(es)	8	8
14.4	Packing group	III	III
14.5	Environmental hazards	Environmentally hazardous substance	Classified as a Marine Pollutant
14.6	Special precautions for user	See Section: 2	Environmentally hazardous substance
14.7	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.	
14.8	Additional Information	None.	

15. SECTION 15: REGULATORY INFORMATION

15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture	
15.1.1	EU regulations	For professional users only. CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction). Chromium (VI) trioxide
	Authorisations and/or Restrictions On Use	
	REACH: ANNEX XIV list of substances subject to authorisation	Chromium (VI) trioxide - Entry 28: Restriction on supply of substances and mixtures to the general public, if classified as Carc. 1A or 1B, Entry 29: Restriction on supply of substances and mixtures to the general public, if classified as Muta. 1A or 1B, Entry 47: Restricted in cement if > 2 mg/kg (0.0002%) of the total dry weight of the cement (Exemptions apply)
	Annex XVII (Restrictions)	Chromium (VI) trioxide: Carcinogenic and Mutagenic
	Substance(s) of Very High Concern (SVHCs)	
15.1.2	National regulations	

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15.2 Germany
Chemical Safety Assessment

Water hazard class: 3
Not available.

16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: V3.0

Updated Sections: 1.4, 2.1, 3, 4.3, 6.3, 7.1, 11, 12, 13.1, 15, 16.

References: Existing Safety Data Sheet (SDS), Harmonised Classification(s) for Phosphoric Acid (CAS No. 7664-38-2) and Chromium (VI) trioxide (CAS No. 1333-82-0), Existing ECHA registration(s) for Phosphoric Acid (CAS No. 7664-38-2) and Chromium (VI) trioxide (CAS No. 1333-82-0).

Literature References:

1. European Union Risk Assessment Report: chromium trioxide, sodium chromate, sodium dichromate, ammonium dichromate, potassium dichromate. 2005. European Chemicals Bureau. 3rd Priority List; Volume 53.
2. Adachi S et al. 1986. Effects of chromium compounds to the respiratory system. Part 4. Jpn J Ind Health 1986 (28); 283-287

Classification of the substance or mixture According to Regulation (EC) No. 1272/2008 (CLP)	Classification Procedure
Met. Corr. 1; H290	Estimated Physico-chemical properties of substance
Skin Irrit. 2; H315	Threshold Calculation
Skin Sens. 1; H317	Threshold Calculation
Eye Dam. 1; H318	Threshold Calculation
Acute Tox. 4; H332	Acute Toxicity Estimate Mixture Calculation
Resp. Sens. 1; H334	Threshold Calculation
STOT SE 3; H335	Threshold Calculation (SCL)
Muta. 1B; H340	Threshold Calculation
Carc. 1A; H350	Threshold Calculation
Repr. 2; H361f	Threshold Calculation
STOT RE 1; H372	Threshold Calculation
Aquatic Chronic 2; H411	Summation Calculation

LEGEND

LTEL: Long Term Exposure Limit

STEL: Short Term Exposure Limit

DNEL: Derived No Effect Level

PNEC: Predicted No Effect Concentration

PBT: Persistent, Bioaccumulative and Toxic

TWA: Time Weighted Average

vPvB: very Persistent and very Bioaccumulative

SCL: Specific Concentration Limit

Hazard Class / Classification code:

Ox. Sol. 1; Oxidising solid, Category 1

Met. Corr. 1; Metal Corrosive, Category 1

Acute Tox. 3; Acute toxicity, Category 3

Acute Tox. 3; Acute toxicity, Category 3

Skin Corr. 1 ; Skin corrosion/irritation, Category 1

Skin Sens. 1 ; Skin sensitisation, category 1

Eye Dam. 1; Serious eye damage/irritation, Category 1

Acute Tox. 2; Acute toxicity, Category 2

Resp. Sens. 1; Respiratory sensitisation, category 1

STOT SE 3; Specific target organ toxicity — single exposure, Category 3

Muta. 1B; Germ cell mutagenicity, Category 1B

Carc. 1B; Carcinogenicity, Category 1B

Repr. 2; Reproductive toxicity, Category 2

STOT RE 1; Specific target organ toxicity — repeated exposure, Category 1

Aquatic Acute 1; Hazardous to the aquatic environment, Acute, Category 1

Aquatic Chronic 1; Hazardous to the aquatic environment, Chronic, Category 1

Aquatic Chronic 2; Hazardous to the aquatic environment,

Hazard Statement(s)

H271: May cause fire or explosion; strong oxidiser.

H290: May be corrosive to metals.

H301: Toxic if swallowed.

H311: Toxic in contact with skin.

H314: Causes severe skin burns and eye damage.

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage.

H330: Fatal if inhaled.

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

H335: May cause respiratory irritation.

H340: May cause genetic defects.

H350: May cause cancer.

H361f: Suspected of damaging fertility.

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.

H411: Toxic to aquatic life with long lasting effects.

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Chronic , Category 2

Training advice: Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

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Annex to the extended Safety Data Sheet (eSDS)

No information available.



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