

# SAFETY DATA SHEET

## 1. Identification

Product identifier Contact Cleaner 2000® Precision Cleaner - 13 oz

Other means of identification

Product Code No. 02140 (Item# 1003224)

Recommended use Precision electronics cleaner

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufactured or sold by:

Company name CRC Industries, Inc.

Address 885 Louis Dr.

Warminster, PA 18974 US

Telephone
24-Hour Emergency

(CHEMTREC)

800-424-9300 (US)

Website

crcindustries.com

800-556-5074

# 2. Hazard(s) identification

Physical hazards Flammable aerosols Category 2

Gases under pressure Compressed gas

**Health hazards** Acute toxicity, oral Category 4

Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 2

Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

Specific target organ toxicity, single exposure Category 3 narcotic effects

Aspiration hazard

Hazardous to the aquatic environment,

long-term hazard

OSHA defined hazards Not classified.

Label elements

**Environmental hazards** 



Signal word Danger

**Hazard statement** Flammable aerosol. Contains gas under pressure; may explode if heated. Harmful if swallowed.

May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation.

Category 1

Category 3

May cause respiratory irritation. May cause drowsiness or dizziness.

**Precautionary statement** 

Prevention

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Use only outdoors or in a well-ventilated area. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying. If you experience any symptoms listed on this label, increase ventilation or leave the area. Avoid breathing mist/vapors. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear eye protection/face protection. Wear protective gloves.

Material name: Contact Cleaner 2000® Precision Cleaner - 13 oz

If swallowed: Immediately call a poison center/doctor. Rinse mouth. Do NOT induce vomiting. If Response

inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If on skin: Wash with plenty of water. If skin irritation occurs: Get

medical advice/attention. Take off contaminated clothing and wash it before reuse.

Storage Keep container tightly closed. Store locked up. Protect from sunlight. Store in a well-ventilated

place. Do not expose to temperatures exceeding 50°C/122°F. Exposure to high temperature may

cause can to burst.

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

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information When exposed to extreme heat or hot surfaces, vapors may decompose to toxic gases such as

hydrogen fluoride, hydrogen chloride, and possibly phosgene.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
trans-1,2-dichloroethylene		156-60-5	60 - 70
1,1,2,2-tetrafluoro-1-(2,2,2-trifluoroe Ithoxy) ethane	HFE-347PCF2	406-78-0	20 - 30
carbon dioxide		124-38-9	3 - 7

Specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### 4. First-aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison

center or doctor/physician if you feel unwell.

Skin contact Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get

medical advice/attention. Wash contaminated clothing before reuse.

Eve contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness or dizziness.

redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause

Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing,

Ingestion Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If

vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms/effects, acute and

delayed

medical attention and special

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

treatment needed General information

Indication of immediate

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

#### 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Specific hazards arising from the chemical

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Contents under pressure. Pressurized container may rupture when exposed to heat or flame. During fire, gases hazardous to health may be formed. When exposed to extreme heat or hot surfaces, vapors may decompose to toxic gases such as hydrogen fluoride, hydrogen chloride,

and possibly phosgene.

redness and pain.

Special protective equipment and precautions for firefighters

Fire-fighting equipment/instructions

General fire hazards

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

In case of fire: Stop leak if safe to do so. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. Use standard firefighting procedures and consider the hazards of other involved materials. In the event of fire and/or explosion do not breathe fumes.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials. In the event of fire and/or explosion do not breathe fumes.

> Flammable aerosol. Contents under pressure. Pressurized container may rupture when exposed to heat or flame.

Material name: Contact Cleaner 2000® Precision Cleaner - 13 oz

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapors. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Prevent product from entering drains. Stop the flow of material, if this is without risk. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

# 7. Handling and storage

## Precautions for safe handling

Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Use caution around energized equipment. The metal container will conduct electricity if it contacts a live source. This may result in injury to the user from electrical shock and/or flash fire. Do not taste or swallow. Avoid breathing mist/vapors. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices. For product usage instructions, see the product label.

# Conditions for safe storage, including any incompatibilities

Level 1 Aerosol.

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. Store in tightly closed container. Store in a well-ventilated place. Stored containers should be periodically checked for general condition and leakage. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

#### Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	
carbon dioxide (CAS 124-38-9)	PEL	9000 mg/m3	
		5000 ppm	
trans-1,2-dichloroethylene (CAS 156-60-5)	PEL	790 mg/m3	
		200 ppm	
US. ACGIH Threshold Limit Value	es		
Components	Туре	Value	
carbon dioxide (CAS 124-38-9)	STEL	30000 ppm	
	TWA	5000 ppm	
		• • • • • • • • • • • • • • • • • • • •	

Components	Туре	Value	
carbon dioxide (CAS 124-38-9)	STEL	54000 mg/m3	
		30000 ppm	
	TWA	9000 mg/m3	
		5000 ppm	
trans-1,2-dichloroethylene (CAS 156-60-5)	TWA	790 mg/m3	
		200 ppm	
U.S EPA			
Components	Туре	Value	
1,1,2,2-tetrafluoro-1-(2,2,2-t rifluoroethoxy) ethane (CAS 406-78-0)	Ceiling Limit Value	150 ppm	
Manufacturer OEL			
Components	Туре	Value	
1,1,2,2-tetrafluoro-1-(2,2,2-t rifluoroethoxy) ethane (CAS 406-78-0)	TWA	50 ppm	

**Biological limit values** 

Appropriate engineering

controls

No biological exposure limits noted for the ingredient(s).

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety

shower

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

**Hand protection** Wear protective gloves such as: Fluoroelastomer. Nitrile. Polyvinyl alcohol (PVA).

Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a Respiratory protection

NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies. Air monitoring is needed to

determine actual employee exposure levels.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using do not smoke. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

#### 9. Physical and chemical properties

**Appearance** 

**Physical state** Liquid. **Form** Aerosol. Colorless. Color Odor Ethereal. Odor threshold Not available. Not available.

Melting point/freezing point Initial boiling point and boiling -137.2 °F (-94 °C) estimated 118.4 °F (48 °C) estimated

range

None (Setaflash) Flash point

**Evaporation rate** Fast.

Not available. Flammability (solid, gas)

Upper/lower flammability or explosive limits

Explosive limit - lower (%) 2.2 % estimated
Explosive limit - upper (%) 19.9 % estimated

Vapor pressure 3332.9 hPa estimated

Vapor density Not available.

Relative density 1.26 estimated

Solubility(ies)

Solubility (water) Negligible.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature 860 °F (460 °C) estimated

**Decomposition temperature** Not available. **Viscosity** Not available.

Other information

Percent volatile 95 % estimated

# 10. Stability and reactivity

**Reactivity**The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Heat. Contact with incompatible materials. When exposed to extreme heat or hot surfaces, vapors

may decompose to toxic gases such as hydrogen fluoride, hydrogen chloride, and possibly

phosgene.

Incompatible materials Strong oxidizing agents. Strong acids. Strong bases.

Hazardous decomposition

products

Halogenated materials. Hydrogen chloride. Carbon oxides. Hydrogen fluoride. Phosgene. Sulfur

oxides.

# 11. Toxicological information

## Information on likely routes of exposure

**Inhalation** May cause drowsiness or dizziness. Headache. Nausea, vomiting. May cause irritation to the

respiratory system. Prolonged inhalation may be harmful.

**Skin contact** Causes skin irritation.

**Eye contact** Causes serious eye irritation.

**Ingestion** Harmful if swallowed. Droplets of the product aspirated into the lungs through ingestion or

vomiting may cause a serious chemical pneumonia.

Symptoms related to the physical, chemical and toxicological characteristics

Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness or dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause

redness and pain.

## Information on toxicological effects

Acute toxicity May be fatal if swallowed and enters airways. In high concentrations, vapors are anesthetic and

may cause headache, fatigue, dizziness and central nervous system effects.

Product Species Test Results

Contact Cleaner 2000® Precision Cleaner - 13 oz

<u>Acute</u>

**Dermal** 

LD50 Rabbit 3754 mg/kg

Inhalation

LC50 Rat 73 mg/l, 4 hours

Oral

LD50 Rat 651 mg/kg

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**Test Results** Components **Species** 

trans-1,2-dichloroethylene (CAS 156-60-5)

**Acute** 

Dermal

> 5000 mg/kg LD50 Rabbit

Oral

LD50 Rat 1235 mg/kg

Skin corrosion/irritation

Serious eye damage/eye

irritation

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Causes skin irritation.

Causes serious eye irritation.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

**US. National Toxicology Program (NTP) Report on Carcinogens** 

Not listed.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

May cause respiratory irritation. May cause drowsiness or dizziness.

Not classified.

Specific target organ toxicity -

repeated exposure

May be fatal if swallowed and enters airways. **Aspiration hazard** 

**Chronic effects** Prolonged inhalation may be harmful.

#### 12. Ecological information

Harmful to aquatic life with long lasting effects. **Ecotoxicity** 

Persistence and degradability No data is available on the degradability of any ingredients in the mixture.

Bioaccumulative potential No data available. Partition coefficient n-octanol / water (log Kow)

1,1,2,2-tetrafluoro-1-(2,2,2-trifluoroethoxy) ethane 2.18 trans-1,2-dichloroethylene 2.06

No data available. Mobility in soil Not established. Other adverse effects

# 13. Disposal considerations

**Disposal instructions** The dispensed liquid product is a RCRA hazardous waste for the characteristic of ignitability with a

> waste code of D001 (See 40 CFR Part 261.20 - 261.33). Empty container can be recycled. Full or partially-full aerosol cans can be treated as universal waste. Contents under pressure. Do not incinerate sealed containers. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose in accordance

with all applicable regulations.

Hazardous waste code Possible RCRA waste code includes:

D001: Waste Flammable material with a flash point <140 F

However, it is the generator's responsibility to determine the proper classification and disposal

method at the time of disposal.

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

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# 14. Transport information

DOT

UN1950 **UN** number

Aerosols, flammable, Limited Quantity **UN** proper shipping name

Transport hazard class(es)

Class 2.1 Subsidiary risk Label(s) 2.1

Packing group Not assigned.

**Environmental hazards** 

Marine pollutant No.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

**Special provisions** Packaging exceptions 306 None Packaging non bulk Packaging bulk None

Other information

Passenger and cargo Allowed with restrictions.

aircraft

Allowed with restrictions. Cargo aircraft only

**IATA** 

UN1950 **UN** number

**UN** proper shipping name Aerosols, flammable, Limited Quantity

Transport hazard class(es)

**Class** 2.1 Subsidiary risk

Packing group Not assigned.

**ERG Code** 10L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

Allowed with restrictions.

aircraft

Cargo aircraft only Allowed with restrictions.

**IMDG** 

UN1950 **UN** number

AEROSOLS, Limited Quantity **UN proper shipping name** Transport hazard class(es)

**Class** 2.1 Subsidiary risk

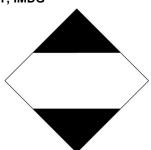
Packing group Not assigned.

**Environmental hazards** 

Marine pollutant No. **EmS** F-D, S-U

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

DOT; IMDG





## 15. Regulatory information

**US** federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

trans-1,2-dichloroethylene (CAS 156-60-5)

**CERCLA Hazardous Substances: Reportable quantity** 

trans-1,2-dichloroethylene (CAS 156-60-5) 1000 LBS

**Toxic Substances Control Act (TSCA)** 

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

1,1,2,2-tetrafluoro-1-(2,2,2-trifluoroethoxy) ethane 1.0 % One-Time Export Notification only. (CAS 406-78-0)

TSCA Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721)

1,1,2,2-tetrafluoro-1-(2,2,2-trifluoroethoxy) ethane Listed.

(CAS 406-78-0)

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Contains component(s) regulated under the Safe Drinking Water Act.

(SDWA)

Food and Drug Not regulated.

Administration (FDA)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Classified hazard

Flammable (gases, aerosols, liquids, or solids)

categories

Gas under pressure Acute toxicity (any route of exposure)

Skin corrosion or irritation

Serious eye damage or eye irritation

Specific target organ toxicity (single or repeated exposure)

Aspiration hazard

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Yes

chemical

SARA 313 (TRI reporting)

Not regulated.

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US state regulations

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

trans-1,2-dichloroethylene (CAS 156-60-5)

## US. New Jersey Worker and Community Right-to-Know Act

carbon dioxide (CAS 124-38-9)

trans-1,2-dichloroethylene (CAS 156-60-5)

#### **US. Massachusetts RTK - Substance List**

carbon dioxide (CAS 124-38-9)

trans-1,2-dichloroethylene (CAS 156-60-5)

#### US. Pennsylvania Worker and Community Right-to-Know Law

carbon dioxide (CAS 124-38-9)

trans-1,2-dichloroethylene (CAS 156-60-5)

#### **US. Rhode Island RTK**

carbon dioxide (CAS 124-38-9)

trans-1,2-dichloroethylene (CAS 156-60-5)

#### California Proposition 65



WARNING: This product can expose you to formaldehyde, which is known to the State of California to cause cancer, and methanol, which is known to the State of California to cause birth defects or other

reproductive harm. For more information go to www.P65Warnings.ca.gov.

#### California Proposition 65 - CRT: Listed date/Carcinogenic substance

formaldehyde (CAS 50-00-0) Listed: January 1, 1988

# California Proposition 65 - CRT: Listed date/Developmental toxin

methanol (CAS 67-56-1) Listed: March 16, 2012

#### Volatile organic compounds (VOC) regulations

#### **EPA**

VOC content (40 CFR 66.5 %

51.100(s))

**Consumer products** 

Not regulated

(40 CFR 59, Subpt. C)

State

Consumer products This product is regulated as an Electronic Cleaner. This product is not compliant to be sold for use

in California. This product is compliant in all other states.

VOC content (CA) 95 % 66.5 % VOC content (OTC)

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No

Europe European List of Notified Chemical Substances (ELINCS) Inventory of Existing and New Chemical Substances (ENCS) Japan Korea Existing Chemicals List (ECL)

Yes New Zealand Inventory New Zealand No No

**Philippines** Philippine Inventory of Chemicals and Chemical Substances

(PICCS)

Taiwan Taiwan Chemical Substance Inventory (TCSI) Yes Toxic Substances Control Act (TSCA) Inventory United States & Puerto Rico Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

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Issue date 11-20-2019 07-19-2022 **Revision date** Danica Fulmer Prepared by

Version # 04

Material name: Contact Cleaner 2000® Precision Cleaner - 13 oz

SDS US

No

No

Further information CRC # 1753496

**Disclaimer**The information contained in this document applies to this specific material as supplied. It may not

be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC's knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this (M)SDS consult your supervisor, a health & safety

professional, or CRC Industries, Inc..

**Revision information** Product and Company Identification: Alternate Trade Names

Hazard(s) identification: Hazard statement

Composition / Information on Ingredients: Ingredients Physical & Chemical Properties: Multiple Properties

**Ecological Information: Ecotoxicity** 

Disposal considerations: Disposal instructions Disposal considerations: Hazardous waste code Regulatory information: California Proposition 65

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