# SAFETY DATA SHEET



## 1. Identification

Product identifier CIMCLEAN® 30F

INDUSTRIAL CLEANER

Other means of identification

SDS number Not applicable

Recommended use INDUSTRIAL CLEANER

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name CIMCOOL® Industrial Products LLC

3000 Disney Street Cincinnati, Ohio 45209

Telephone (General

Information)

513-458-8199

**Emergency telephone** 

number

1-800-424-9300 (CHEMTREC)

Emergency telephone number (outside USA)

1-703-527-3887 (CHEMTREC)

# 2. Hazard(s) identification

Physical hazardsCorrosive to metalsCategory 1Health hazardsAcute toxicity, oralCategory 4Skin corrosion/irritationCategory 2Serious eye damage/eye irritationCategory 2

Sensitization, skin

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

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements



Signal word Warning

Hazard statement May be corrosive to metals. Harmful if swallowed. Causes skin irritation. May cause an allergic

skin reaction. Causes serious eye irritation. May cause respiratory irritation.

Precautionary statement

**Prevention** Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing

dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Contaminated work clothing

Category 1

should not be allowed out of the workplace. Avoid release to the environment.

Response IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical

advice/attention. 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 SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER/doctor if you feel unwell. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get immediate medical advice/attention. Take off contaminated clothing and wash

before reuse.

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

sunlight. Store away from incompatible materials. Store in accordance with

local/regional/national/international regulation.

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

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None known.

Supplemental information

4.5% of the mixture consists of component(s) of unknown acute oral toxicity.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	<u></u>
MONOETHANOLAMINE		141-43-5	3 - 7
SODIUM HYDROXIDE		1310-73-2	3 - 7
ALCOHOLS, C12-14, ETHOXYLATED PROPOXYLATED		68439-51-0	1 - 5
HEXAHYDRO-1,3,5-TRIS (2-HYDROXYETHYL)-S- TRIAZINE		4719-04-4	1 - 5
HYDROXYETHANEDIPHOSPHONI C ACID		2809-21-4	1 - 5
NONANOIC ACID		112-05-0	1 - 5
Other components below reportable leve	els		60 - 100

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

# 4. First-aid measures

Inhalation If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.

Call a POISON CENTER or doctor/physician if you feel unwell.

Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing Skin contact

and shoes. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing

Eye 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 immediately.

Ingestion Rinse mouth thoroughly. Drink 1 or 2 glasses of water. Do not induce vomiting. If vomiting occurs,

keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if

you feel unwell.

Most important symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

**General information** 

Direct contact with eyes may cause temporary irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. Defatting of the skin. May cause an allergic skin reaction. May cause respiratory irritation.

Provide general supportive measures and treat symptomatically. Symptoms may be delayed.

If exposed or concerned: Get medical advice/attention. Show this safety data sheet to the doctor in attendance.

# 5. Fire-fighting measures

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Use extinguishing measures that Suitable extinguishing media

are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

Not applicable, non-combustible,

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters Wear suitable protective equipment.

Fire fighting

Specific methods

equipment/instructions

Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk.

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

# 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

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# Methods and materials for containment and cleaning up

Local authorities should be advised if significant spillages cannot be contained. This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb spillage to prevent material damage. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Clean up in accordance with all applicable regulations. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

# **Environmental precautions**

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground. Contact local authorities in case of spillage to drain/aquatic environment. Use appropriate containment to avoid environmental contamination.

# 7. Handling and storage

#### Precautions for safe handling

Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Do not get in eyes, on skin, or on clothing. Avoid breathing mist or vapor. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

# Conditions for safe storage, including any incompatibilities

Store locked up. To maintain product quality, do not store in heat or direct sunlight. Store in a cool, dry place out of direct sunlight. Keep only in the original container. Store away from incompatible materials (see Section 10 of the SDS). Keep this material away from food, drink and animal feed. Do not allow material to freeze. If frozen, product may separate. Thaw completely at room temperature and stir thoroughly prior to use.

# 8. Exposure controls/personal protection

#### Occupational exposure limits

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

	Туре	Value	
MONOETHANOLAMINE (CAS 141-43-5)	PEL	6 mg/m3	
SODIUM HYDROXIDE (CAS 1310-73-2)	PEL	2 mg/m3	
MONOETHANOLAMINE (CAS 141-43-5)	PEL	3 ppm	
US. NIOSH: Pocket Guide to Che	mical Hazards		
	Туре	Value	
SODIUM HYDROXIDE (CAS 1310-73-2)	Ceiling	2 mg/m3	
MONOETHANOLAMINE (CAS 141-43-5)	STEL	15 mg/m3	
		6 ppm	
	TWA	8 mg/m3	
		3 ppm	
US. ACGIH Threshold Limit Value	es		
	Туре	Value	
SODIUM HYDROXIDE (CAS 1310-73-2)	Ceiling	2 mg/m3	
MONOETHANOLAMINE (CAS 141-43-5)	STEL	6 ppm	
	TWA	3 ppm	

# Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) 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. Eye wash fountain and emergency showers are recommended.

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## Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles). Do not get in eyes. Eye wash fountain is

recommended.

Skin protection

Hand protectionOtherUse protective gloves made of: Nitrile.Wear suitable protective clothing and gloves.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using, do not eat, drink or smoke. Do not get in eyes, on skin, on clothing. 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. Contaminated work clothing should not be allowed out of the workplace.

# 9. Physical and chemical properties

Appearance CLEAR
Physical state Liquid.
Form Liquid.
Color Not available.
Odor Chemical

**pH** 11.7

Melting point/freezing point  $< 32 \,^{\circ}\text{F} \ (< 0 \,^{\circ}\text{C})$ Initial boiling point and boiling  $> 212 \,^{\circ}\text{F} \ (> 100 \,^{\circ}\text{C})$ 

range

**Odor threshold** 

Flash point Not Applicable

**Evaporation rate** Like water when diluted

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

FL. . . . . Large P. . M. L. . . .

Flammability limit - lower

Not available.

Not available.

(%)

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not available.

Vapor density Not available.

Relative density Not available.

Solubility(ies) 100 % Water Miscible

Partition coefficient Not a

(n-octanol/water)

Not available.

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

Other information

pH in aqueous solution 9.0 @ 2% Specific gravity 1.13 VOC ASTM D2369 23 %

# 10. Stability and reactivity

**Reactivity** Reacts violently with strong acids. This product may react with oxidizing agents. May be corrosive

to metals.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous No dangerous reaction known under conditions of normal use. Hazardous polymerization does not

reactions occur.

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Conditions to avoid

Incompatible materials

**Hazardous decomposition** 

Heat, flames and sparks. Do not mix with other chemicals. Contact with incompatible materials. Aluminum. Strong acids. Acids. Oxidizing agents. Avoid contact with oxidizers or reducing agents.

Smoke, fumes, oxides of nitrogen, and oxides of carbon

products

# 11. Toxicological information

# Information on likely routes of exposure

Inhalation May cause irritation to the respiratory system. Prolonged inhalation may be harmful.

Causes skin irritation. May cause an allergic skin reaction. Frequent or prolonged contact may Skin contact

defat and dry the skin, leading to discomfort and dermatitis.

Causes serious eye irritation. Direct contact with eyes may cause temporary irritation. Eye contact

Ingestion Harmful if swallowed. Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. Defatting of the skin. May cause an allergic

skin reaction. May cause respiratory irritation.

#### Information on toxicological effects

Harmful if swallowed. May cause an allergic skin reaction. May cause respiratory irritation. **Acute toxicity** 

Expected to be a low hazard for usual industrial or commercial handling by trained personnel.

Components	Species	Test Results
ALCOHOLS, C12-14, ET	HOXYLATED PROPOXYLATED (CAS 684	39-51-0)
Acute		
Oral		
LD50	Rat	> 2000 mg/kg
HYDROXYETHANEDIPH	HOSPHONIC ACID (CAS 2809-21-4)	
Acute		
D		

Dermal

Rabbit LD50 > 6000 mg/kg

Oral

LD50 Rat 1878 mg/kg

MONOETHANOLAMINE (CAS 141-43-5)

**Acute** Dermal

LD50 Rabbit 1025 mg/kg

Oral

LD50 Guinea pig 620 mg/kg

> Mouse 700 mg/kg Rat 10.2 g/kg

NONANOIC ACID (CAS 112-05-0)

Acute Dermal

LD50 Rabbit > 5000 mg/kg

Oral

15000 mg/kg LD50 Mouse

SODIUM HYDROXIDE (CAS 1310-73-2)

**Acute** Dermal

LD50 Rabbit 1350 mg/kg

Oral

LD50 Rat 104 - 340 mg/kg

Skin corrosion/irritation Causes skin irritation. Prolonged skin contact may cause temporary irritation. Defatting, drying and cracking of skin.

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<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Serious eye damage/eye

irritation

Causes serious eye irritation. Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

Respiratory sensitization Not classified.

**Skin sensitization** May cause an allergic skin reaction.

Germ cell mutagenicity

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

mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

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.

Specific target organ toxicity -

repeated exposure

Not classified.

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

Chronic effects May be harmful if absorbed through skin. Prolonged inhalation may be harmful.

Prolonged or repeated exposure may cause liver and kidney damage. These effects have not

been observed in humans.

**Further information** Symptoms may be delayed.

# 12. Ecological information

**Ecotoxicity**Contains a substance which causes risk of hazardous effects to the environment.

Components	Species	Test Results

ALCOHOLS, C12-14, ETHOXYLATED PROPOXYLATED (CAS 68439-51-0)

Aquatic

Acute

Fish LC50 Ide, silver or golden orfe (Leuciscus 1 - 10 mg/l

idus)

HYDROXYETHANEDIPHOSPHONIC ACID (CAS 2809-21-4)

Aquatic

Acute

Crustacea EC50 Daphnia 527 mg/l, 48 hours Fish LC50 Rainbow trout,donaldson trout 195 mg/l, 96 hours

(Oncorhynchus mykiss)

MONOETHANOLAMINE (CAS 141-43-5)

Aquatic

Fish LC50 Rainbow trout, donaldson trout 114 - 196 mg/l, 96 hours

(Oncorhynchus mykiss)

NONANOIC ACID (CAS 112-05-0)

Aquatic

Acute

Crustacea EC50 Daphnia 96 mg/l, 48 hours Fish LC50 Rainbow trout,donaldson trout 91 mg/l, 96 hours

(Oncorhynchus mykiss)

SODIUM HYDROXIDE (CAS 1310-73-2)

**Aquatic** 

Crustacea EC50 Water flea (Ceriodaphnia dubia) 34.59 - 47.13 mg/l, 48 hours

Fish LC50 Western mosquitofish (Gambusia affinis) 125 mg/l, 96 hours

Persistence and degradability No data is available on the degradability of this product.

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<sup>\*</sup> Estimates for product may be based on additional component data not shown.

## Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

MONOETHANOLAMINE -1.31NONANOIC ACID 3.42

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

**Disposal instructions** Consult authorities before disposal. Do not allow this material to drain into sewers/water supplies.

Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of

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

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

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

emptied. Do not re-use empty containers.

# 14. Transport information

DOT

UN3267 **UN number** 

Corrosive liquid, basic, organic, n.o.s. (SODIUM HYDROXIDE RQ = 15267 LBS and **UN proper shipping name** 

MONOETHANOLAMINE)

Transport hazard class(es)

8 Class Subsidiary risk 8 Label(s) Packing group Ш

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

IB3, T7, TP1, TP28 Special provisions

154 Packaging exceptions 203 Packaging non bulk 241 Packaging bulk

Supplemental Information: This Product Concentrate is corrosive only to Aluminum. Per 49CFR 173.154(d)(1) Except for a hazardous substance, a hazardous waste, or a marine pollutant, a material classed as Class 8 Packing Group III, solely because of its corrosive effect on aluminum - is not subject to any other requirements of this subchapter when transported by motor vehicle or rail car in packaging that will not react or be degraded by the corrosive material.

IATA

**UN** number UN3267

**UN proper shipping name** Transport hazard class(es) Corrosive liquid, basic, organic, n.o.s. (SODIUM HYDROXIDE and MONOETHANOLAMINE)

8 Class Subsidiary risk Packing group Ш **Environmental hazards** Nο **ERG Code** 8L

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

Other information

Passenger and cargo Allowed.

aircraft

Allowed. Cargo aircraft only

**IMDG** 

**UN** number UN3267

**UN proper shipping name** CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (SODIUM HYDROXIDE and

MONOETHANOLAMINE)

Transport hazard class(es)

8 **Class** 

Material name: CIMCLEAN® 30F SDS US

Subsidiary risk Packing group Ш

**Environmental hazards** 

Marine pollutant No. **EmS** F-A, S-B

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

Not established.

Transport in bulk according to

Annex II of MARPOL 73/78 and

the IBC Code

DOT



IATA; 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. It may be reportable under the provisions of SARA Sections 311 and 312 if specific threshold criteria are met or exceeded.

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

HEXAHYDRO-1,3,5-TRIS (2-HYDROXYETHYL)-S-

1.0 % One-Time Export Notification only.

TRIAZINE (CAS 4719-04-4)

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

SODIUM HYDROXIDE (CAS 1310-73-2) Listed.

SARA 304 Emergency release notification

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

# Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - Yes **Hazard categories** 

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes

chemical

SARA 313 (TRI reporting)

Not regulated.

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## 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

Not regulated.

(SDWA)

Food and Drug Not regulated.

Administration (FDA)

## **US state regulations**

## US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed

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

MONOETHANOLAMINE (CAS 141-43-5) SODIUM HYDROXIDE (CAS 1310-73-2)

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

MONOETHANOLAMINE (CAS 141-43-5) SODIUM HYDROXIDE (CAS 1310-73-2)

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

MONOETHANOLAMINE (CAS 141-43-5) SODIUM HYDROXIDE (CAS 1310-73-2)

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

SODIUM HYDROXIDE (CAS 1310-73-2)

California South Coast Air Quality Management This product is not subject to California's South Coast Air Quality Management District Rule 1144

(Rule only applicable to Metalworking Fluids, Vanishing Oils and Rust Inhibitors).

District (SCAQMD) Rule 1144 (VOC Emissions)

## **US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

#### **International Inventories**

Country(s) or region	Inventory name	On inventory or exempt (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

<sup>\*</sup>A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

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

**Issue date** 05-11-2015

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Further information Not available.

**Disclaimer** The information provided in this Safety Data Sheet is correct to the best of our knowledge,

information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other

materials or in any process, unless specified in the text.

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SDS US

## **Revision Information**

Product and Company Identification: Product Codes Hazards Identification: US Hazard Categories Composition / Information on Ingredients: Ingredients
Physical & Chemical Properties: Multiple Properties
Transport Information: Proper Shipping Name/Packing Group
Regulatory Information: United States
Material Attributes & Uses; Experimental Data: Product Uses

HazReg Data: North America

GHS: Classification

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