

4 Component Mix in Nitrogen

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Reference number: SDS 00731 Issue date: 11/14/2016 Revision date: 1/12/2023 Supersedes version of: 8/24/2022 Version: 3.0





1.1. Product identifier	
SDS no	: SDS 00731
1.2. Relevant identified us	es of the substance or mixture and uses advised against
Relevant identified uses Uses advised against	 Industrial and professional uses. Perform risk assessment prior to use. Consumer use. Uses other than those listed above are not supported, contact your supplier for mor information on other uses.
1.3. Details of the supplie	r of the safety data sheet
Air Liquide UK Ltd. Station Road Coleshill B46 1JY Birmingham United Kingdom <u>safety.aluk@airliquide.com</u>	
1.4. Emergency telephone	e number
Emergency telephone numb	er : 01675 462695 (Available 24/7)
SECTION 2: Hazards	identification
2.1. Classification of the s	
2.1. Classification of the s	substance or mixture o Regulation (EC) No. 1272/2008 [CLP]
2.1. Classification of the s Classification according t Physical hazards 2.2. Label elements	substance or mixture o Regulation (EC) No. 1272/2008 [CLP]
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2.1. Classification of the s Classification according t Physical hazards 2.2. Label elements Labelling according to Re Hazard pictograms (CLP) Signal word (CLP) Hazard statements (CLP) Precautionary statements (C	substance or mixture to Regulation (EC) No. 1272/2008 [CLP] Gases under pressure : Compressed gas H280 gulation (EC) No. 1272/2008 [CLP] : GHS04 : Warning : H280 - Contains gas under pressure; may explode if heated.
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4 Component Mix in Nitrogen

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Reference number: SDS 00731

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Nitrogen	CAS-No.: 7727-37-9 EC-No.: 231-783-9 EC Index-No.: REACH-no: *1	78.696	Press. Gas (Comp.), H280
Oxygen CAS-No.: 7782-44-7 EC-No.: 231-956-9 EC Index-No.: 008-001-00-8 REACH-no: *1		17	Ox. Gas 1, H270 Press. Gas (Comp.), H280
Methane CAS-No.: 74-82-8 EC-No.: 200-812-7 EC Index-No.: 601-001-00-4 REACH-no: 01-2119474442-39		2.5	Flam. Gas 1A, H220 Press. Gas (Comp.), H280
Carbon dioxide CAS-No.: 124-38-9 EC-No.: 204-696-9 EC Index-No.: REACH-no: *1		1.8	Press. Gas (Liq.), H280
Carbon monoxide	CAS-No.: 630-08-0 EC-No.: 211-128-3 EC Index-No.: 006-001-00-2 REACH-no: 01-2119480165-39	0.004	Flam. Gas 1B, H221 Press. Gas (Comp.), H280 Acute Tox. 3 (Inhalation:gas), H331 Repr. 1A, H360D STOT RE 1, H372

Full text of H- and EUH-statements: see section 16

Contains no other components or impurities which will influence the classification of the product.

*1: Listed in Annex IV / V REACH, exempted from registration.

*3: Registration not required: Substance manufactured or imported < 1t/y.

SECTION 4: First aid measures

4.1. Description of first aid measures

- Inhalation	 Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor. Perform cardiopulmonary resuscitation if breathing stopped. 	
- Skin contact	: Adverse effects not expected from this product.	
- Eye contact	: Adverse effects not expected from this product.	
- Ingestion	: Ingestion is not considered a potential route of exposure.	
4.2. Most important symptoms and effects, both acute and delayed		

In high concentrations may cause asphyxiation. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation. See section 11.

4.3. Indication of any immediate medical attention and special treatment needed

None.



4 Component Mix in Nitrogen

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Reference number: SDS 00731

SECTION 5: Firefighting measures		
5.1. Extinguishing media		
- Suitable extinguishing media	: Water spray or fog. Product does not burn, use fire control measures appropriate for the surrounding fire.	
- Unsuitable extinguishing media	: Do not use water jet to extinguish.	
5.2. Special hazards arising from the substance or mixture		
Specific hazards	: Exposure to fire may cause containers to rupture/explode.	
Hazardous combustion products	: None that are more hazardous than the product itself.	
5.3. Advice for firefighters		
Specific methods	 Use fire control measures appropriate for the surrounding fire. Exposure to fire and heat radiation may cause gas receptacles to rupture. Cool endangered receptacles with water spray jet from a protected position. Prevent water used in emergency cases from entering sewers and drainage systems. If possible, stop flow of product. Use water spray or fog to knock down fire fumes if possible. Move containers away from the fire area if this can be done without risk. 	
Special protective equipment for fire fighters	 In confined space use self-contained breathing apparatus. Standard protective clothing and equipment (Self Contained Breathing Apparatus) for fire fighters. Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask. Standard EN 469 - Protective clothing for firefighters. Standard - EN 659: Protective gloves for firefighters. 	

SECTION 6: Accidental release measures	SECTION 6: Accidental release measures	
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6.1. Personal precautions, protective equipment and emergency procedures			
For non-emergency personnel	: Act in accordance with local emergency plan.		
	Try to stop release.		
	Evacuate area.		
	Ensure adequate air ventilation.		
	Stay upwind.		
	See section 8 of the SDS for more information on personal protective equipment.		
For emergency responders	: Wear self-contained breathing apparatus when entering area unless atmosphere is proved		
	to be safe.		
	Oxygen detectors should be used when asphyxiating gases may be released.		
	See section 5.3 of the SDS for more information.		
6.2. Environmental precautions			
	Try to stop release.		
6.3. Methods and material for containment and cleaning up			
	Ventilate area.		

6.4. Reference to other sections

See also sections 8 and 13.



4 Component Mix in Nitrogen

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Reference number: SDS 00731

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Safe use of the product	 Do not breathe gas. Avoid release of product into atmosphere. The product must be handled in accordance with good industrial hygiene and safety procedures. Only experienced and properly instructed persons should handle gases under pressure. Consider pressure relief device(s) in gas installations. Ensure the complete gas system was (or is regularily) checked for leaks before use. Do not smoke while handling product. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt. Use only oxygen approved lubricants and oxygen approved sealings. Avoid suck back of water. acid and alkalis.
Safe handling of the gas receptacle	 Avoid suck back of water, acid and alkalis. Refer to supplier's container handling instructions. Do not allow backfeed into the container. Protect containers from physical damage; do not drag, roll, slide or drop. When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders. Leave valve protection caps in place until the container has been secured against either a wall or bench or placed in a container stand and is ready for use. If user experiences any difficulty operating valve discontinue use and contact supplier. Never attempt to repair or modify container valves or safety relief devices. Damaged valves should be reported immediately to the supplier. Keep container valve outlets clean and free from contaminants particularly oil and water. Replace valve outlet caps or plugs and container caps where supplied as soon as container is disconnected from equipment. Close container valve after each use and when empty, even if still connected to equipment. Never use direct flame or electrical heating devices to raise the pressure of a container. Do not remove or deface labels provided by the supplier for the identification of the content of the container.
	Open valve slowly to avoid pressure shock.
7.2. Conditions for safe storage, including any inc	ompatibilities
	Observe all regulations and local requirements regarding storage of containers. Containers should not be stored in conditions likely to encourage corrosion. Container valve guards or caps should be in place.

Containers should be stored in the vertical position and properly secured to prevent them from falling over.

Stored containers should be periodically checked for general condition and leakage. Keep container below 50°C in a well ventilated place.

Store containers in location free from fire risk and away from sources of heat and ignition. Keep away from combustible materials.

7.3. Specific end use(s)

None.



4 Component Mix in Nitrogen

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Reference number: SDS 00731

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Carbon monoxide (630-08-0)		
United Kingdom - Occupational Exposure Limits		
WEL TWA (OEL TWA) [1]	35 mg/m ^a Limits applicable to underground mining & tunnelling industries ONLY until 21/8/23	
WEL TWA (OEL TWA) [2]	30 ppm Limits applicable to underground mining & tunnelling industries ONLY until 21/8/23	
WEL STEL (OEL STEL)	232 mg/m ³ Limits applicable to underground mining & tunnelling industries ONLY until 21/8/23	
WEL STEL (OEL STEL) [ppm]	200 ppm Limits applicable to underground mining & tunnelling industries ONLY until 21/8/23	

Carbon monoxide (630-08-0)	
DNEL: Derived no effect level (Workers)	
Acute - local effects, inhalation	117 ppm
Acute - systemic effects, inhalation	117 mg/m ³
Long-term - local effects, inhalation	23 ppm
Long-term - systemic effects, inhalation	23 mg/m³

PNEC (Predicted No-Effect Concentration)

: None established.

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Provide adequate general and local exhaust ventilation.	
Systems under pressure should be regularily checked for leakages.	
Ensure exposure is below occupational exposure limits (where available).	
Oxygen detectors should be used when asphyxiating gases may be released.	
Consider the use of a work permit system e.g. for maintenance activities.	

8.2.2. Individual protection measures, e.g. personal protective equipment

	A risk assessment should be conducted and documented in each work area to assess the risks related to the use of the product and to select the PPE that matches the relevant risk. The following recommendations should be considered: PPE compliant to the recommended EN/ISO standards should be selected.
	FFL compliant to the recommended LIMISO standards should be selected.
 Eye/face protection 	: Wear safety glasses with side shields.
	Standard EN 166 - Personal eye-protection - specifications.
Skin protection	
- Hand protection	: Wear working gloves when handling gas containers.
	Standard EN 388 - Protective gloves against mechanical risk, performance level 1 or higher.
- Other	: Wear safety shoes while handling containers.
	Standard EN ISO 20345 - Personal protective equipment - Safety footwear.



4 Component Mix in Nitrogen

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Reference number: SDS 00731

Respiratory protection	 Gas filters may be used if all surrounding conditions e.g. type and concentration of the contaminant(s) and duration of use are known. Use gas filters with full face mask, where exposure limits may be exceeded for a short-term period, e.g. connecting or disconnecting containers. Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask.
Thermal hazards	 Gas filters do not protect against oxygen deficiency. Self contained breathing apparatus (SCBA) or positive pressure airline with mask are to be used in oxygen-deficient atmospheres. Standard EN 14387 - Gas filter(s), combined filter(s) and standard EN136, full face masks . None in addition to the above sections.
8.2.3. Environmental exposure controls	

None necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	
- Physical state at 20°C / 101.3kPa	: Gas.
- Colour	: Colourless.
Odour	: Odourless.
Melting point / Freezing point	: Not applicable for gas mixtures.
Boiling point	: Not applicable for gas mixtures.
	It is technically not possible to determine the boiling point or range of this mixture.
	Component with lowest boiling point: Nitrogen -196 °C
Flammability	: Non flammable.
Lower explosion limit	: Not available.
Upper explosion limit	: Not available.
Flash point	: Not applicable for gas mixtures.
Auto-ignition temperature	: Non flammable.
Decomposition temperature	: Not applicable.
рН	: Not applicable for gas mixtures.
Viscosity, kinematic	: Not applicable.
Water solubility [20°C]	: Mixture is partially soluble in water
Partition coefficient n-octanol/water (Log Kow)	: Not applicable for gas mixtures.
Vapour pressure [20°C]	: Not applicable.
Vapour pressure [50°C]	: Not applicable.
Density and/or relative density	: Not applicable.
Relative vapour density (air=1)	: Lighter or similar to air.
Particle characteristics	: Not applicable.

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Explosive properties Explosion limits	: Not applicable. : Non flammable.
Oxidising properties	: Not applicable.
9.2.2. Other safety characteristics	

Molar mass	:	Not applicable for gas mixtures.
Evaporation rate	:	Not applicable for gas mixtures.
Other data	:	None.



4 Component Mix in Nitrogen

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Reference number: SDS 00731

SECTION 10: Stability and reactivity	
10.1. Reactivity	
	No reactivity hazard other than the effects described in sub-sections below. Data for mixture are not available. This mixture contains components with the following reactivity : Can form explosive mixture with air. May react violently with oxidants. Violently oxidises organic material.
10.2. Chemical stability	
	Stable under normal conditions.
10.3. Possibility of hazardous reactions	
	None.
10.4. Conditions to avoid	
	None. Avoid moisture in installation systems.
10.5. Incompatible materials	
	None. For additional information on compatibility refer to ISO 11114.
10.6. Hazardous decomposition products	
	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 : Classification criteria are not met. Acute toxicity

Carbon monoxide (630-08-0)	
LC50 Inhalation - Rat [ppm]	3760 ppm/1h (ADR)
	1300 ppm/4h (CLP)
Skin corrosion/irritation	: No known effects from this product.
Serious eye damage/irritation	: No known effects from this product.
Respiratory or skin sensitisation	: No known effects from this product.
Germ cell mutagenicity	: No known effects from this product.
Carcinogenicity	: No known effects from this product.
Toxic for reproduction : Fertility	: No known effects from this product.
Toxic for reproduction : unborn child	: Classification criteria are not met.
STOT-single exposure	: No known effects from this product.
STOT-repeated exposure	: Classification criteria are not met.
Aspiration hazard	: Not applicable for gases and gas mixtures.
11.2. Information on other hazards	

No additional information available

SECTION 12: Ecological information		
12.1. Toxicity		
Assessment	: Classification criteria are not met.	
EC50 48h - Daphnia magna [mg/l]	: No data available.	
EC50 72h - Algae [mg/l]	: No data available.	
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4 Component Mix in Nitrogen

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Reference number: SDS 00731

LC50 96 h - Fish [mg/l]	: No data available.
Carbon dioxide (124-38-9)	
EC50 48h - Daphnia magna [mg/l]	No data available.
EC50 72h - Algae [mg/l]	No data available.
LC50 96 h - Fish [mg/l]	No data available.

Carbon monoxide (630-08-0)	
EC50 48h - Daphnia magna [mg/l]	No data available.
EC50 72h - Algae [mg/l]	No data available.
LC50 96 h - Fish [mg/l]	No data available.

Methane (74-82-8)	
EC50 48h - Daphnia magna [mg/l]	69.4 mg/l
EC50 72h - Algae [mg/l]	19.4 mg/l
LC50 96 h - Fish [mg/l]	147.5 mg/l

Oxygen (7782-44-7)	
EC50 48h - Daphnia magna [mg/l]	No data available.
EC50 72h - Algae [mg/l]	No data available.
LC50 96 h - Fish [mg/l]	No data available.

Nitrogen (7727-37-9)			
EC50 48h - Daphnia magna [mg/l]		No data available.	
EC50 72h - Algae [mg/l]		No data available.	
LC50 96 h - Fish [mg/l]		No data available.	
12.2. Persistence and degradability			
Assessment	:	No ecological damage caused by this product.	
12.3. Bioaccumulative potential			
Assessment	:	No data available.	
<u>12.4. Mobility in soil</u>			
Assessment	:	No data available.	
Assessment	:	No ecological damage caused by this product.	
12.5. Results of PBT and vPvB assessment			
Assessment	:	Not classified as PBT or vPvB.	
12.6. Endocrine disrupting properties			
Assessment	:		
12.7. Other adverse effects			
Other adverse effects	:	No known effects from this product.	
Effect on the ozone layer	:	No effect on the ozone layer.	
Effect on global warming	:	Contains greenhouse gas(es).	
Air Liquide UK Ltd.		EN (English)	8/12



4 Component Mix in Nitrogen

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Reference number: SDS 00731

SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
List of hazardous waste codes (from Commission Decision 2000/532/EC as amended)	 May be vented to atmosphere in a well ventilated place. Do not discharge into any place where its accumulation could be dangerous. Return unused product in original container to supplier. 16 05 05 : Gases in pressure containers other than those mentioned in 16 05 04.
13.2. Additional information	
	External treatment and disposal of waste should comply with applicable local and/or national regulations.
SECTION 14: Transport information	
14.1. UN number or ID number	
In accordance with ADR / RID / IMDG / IATA / ADN UN-No.	: 1956
14.2. UN proper shipping name	
Transport by road/rail (ADR/RID)	: COMPRESSED GAS, N.O.S. (Nitrogen, Oxygen)
Transport by air (ICAO-TI / IATA-DGR)	: Compressed gas, n.o.s. (Nitrogen, Oxygen)
Transport by sea (IMDG)	: COMPRESSED GAS, N.O.S. (Nitrogen, Oxygen)
14.3. Transport hazard class(es)	
Labelling	
	2.2 : Non-flammable, non-toxic gases.
Transport by road/rail (ADR/RID) Class	: 2
Classification code	: 1A
Hazard identification number	: 20
Tunnel Restriction	: E - Passage forbidden through tunnels of category E
Transport by air (ICAO-TI / IATA-DGR) Class / Div. (Sub. risk(s))	: 22
Transport by sea (IMDG)	
Class / Div. (Sub. risk(s))	: 2.2
Emergency Schedule (EmS) - Fire Emergency Schedule (EmS) - Spillage	: F-C : S-V
	. 5-1
14.4. Packing group	
Transport by road/rail (ADR/RID) Transport by air (ICAO-TI / IATA-DGR)	: Not applicable. : Not applicable.
Transport by sea (IMDG)	: Not applicable.
14.5. Environmental hazards	
Transport by road/rail (ADR/RID)	: None.
Transport by air (ICAO-TI / IATA-DGR)	: None.
Transport by sea (IMDG)	: None.
14.6. Special precautions for user	
Packing Instruction(s) Transport by road/rail (ADR/RID) Transport by air (ICAO-TL/IATA-DCP)	: P200.

Transport by air (ICAO-TI / IATA-DGR) Passenger and Cargo Aircraft

: 200.



4 Component Mix in Nitrogen

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Reference number: SDS 00731

Cargo Aircraft only	: 200.
Transport by sea (IMDG)	: P200.
Special transport precautions	: Avoid transport on vehicles where the load space is not separated from the driver's compartment.
	Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in
	the event of an accident or an emergency.
	Before transporting product containers:
	- Ensure there is adequate ventilation.
	- Ensure that containers are firmly secured.
	- Ensure valve is closed and not leaking.
	- Ensure valve outlet cap nut or plug (where provided) is correctly fitted.
	- Ensure valve protection device (where provided) is correctly fitted.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

substance on the REACH candidate list.
substance subject to Regulation (EU) No 649/2012 of the European Parliament ouncil of 4 July 2012 concerning the export and import of hazardous chemicals.
tional/local regulations are observed.
not need to be carried out for this product.
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SECTION 16: Other information

Indication of changes

: Safety data sheet in accordance with commission regulation (EU) No 2020/878.

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4 Component Mix in Nitrogen

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Reference number: SDS 00731

Abbreviations and acronyms	 ATE - Acute Toxicity Estimate. CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008. REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006. EINECS - European Inventory of Existing Commercial Chemical Substances. CAS# - Chemical Abstract Service number. PPE - Personal Protection Equipment. LC50 - Lethal Concentration to 50 % of a test population. RMM - Risk Management Measures. PBT - Persistent, Bioaccumulative and Toxic. vPvB - Very Persistent and Very Bioaccumulative. STOT - SE : Specific Target Organ Toxicity - Single Exposure. CSA - Chemical Safety Assessment. EN - European Agreement concerning the International Carriage of Dangerous Goods by Road. IATA - International Maritime Dangerous Goods. RID - Regulations concerning the International Carriage of Dangerous Goods by Road. IMDG code - International Maritime Dangerous Goods. RID - Regulations concerning the International Carriage of Dangerous Goods by Road. IMTA - International Maritime Dangerous Goods. RID - Regulations concerning the International Carriage of Dangerous Goods by Road. IMDG code - International Maritime Dangerous Goods. RID - Regulations concerning the International Carriage of Dangerous Goods by Road. IMTA - International Maritime Dangerous Goods. RID - Regulations concerning the International Carriage of Dangerous Goods by Rail. WGK - Water Hazard Class. STOT - RE : Specific Target Organ Toxicity - Repeated Exposure. UFI : Unique Formula Identifier.
Training advice	 The hazard of asphyxiation is often overlooked and must be stressed during operator training. For more guidance, refer to EIGA SL 01 "Dangers of Asphyxiation", downloadable at http://www.eiga.eu
Further information	: Classification using data from databases maintained by the European Industrial Gases Association (EIGA). Data is maintained in EIGA doc 169 : 'Classification and Labelling Guide', downloadable at : http://www.eiga.eu. Classification in accordance with the procedures and calculation methods of Regulation (EC) 1272/2008 (CLP).

Full text of H- and EUH-statements		
Acute Tox. 3 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 3	
Flam. Gas 1A	Flammable gases, Category 1A	
Flam. Gas 1B	Flammable gases, Category 1B	
H220	Extremely flammable gas.	
H221	Flammable gas.	
H270	May cause or intensify fire; oxidiser.	
H280	Contains gas under pressure; may explode if heated.	
H331	Toxic if inhaled.	
H360D	May damage the unborn child.	
H372	Causes damage to organs through prolonged or repeated exposure.	
Ox. Gas 1	Oxidising Gases, Category 1	
Press. Gas (Comp.)	Gases under pressure : Compressed gas	
Press. Gas (Liq.)	Gases under pressure : Liquefied gas	
Repr. 1A	Reproductive toxicity, Category 1A	
STOT RE 1	Specific target organ toxicity – Repeated exposure, Category 1	



4 Component Mix in Nitrogen

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Reference number: SDS 00731

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