

Skeda e të Dhënave të Sigurisë

oxygen (refrigerated)

sipas rregullores REACH (KE) 1907/2006 e ndryshuar nga rregullorja (BE) 2020/878
Numër referencë: 097B
Data e lëshimit: 2.12.2019
Data e inspektimit: 10.6.2025
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Versioni: 11.0

Rrezik



SEKSION 1: Identifikimi i substancës/i përzierjes dhe i shoqërisë/i firmës

1.1. Identifikues të produktit

Trade name : oxygen (refrigerated)
SDS no : 097B
Mjete të tjera identifikimi : oxygen (refrigerated)
Nr. CAS : 7782-44-7
Nr. i KE : 231-956-9
Nr. i indeksit të KE : 008-001-00-8

REACH registration No : Listed in Annex IV / V REACH, exempted from registration.

Chemical formula : O₂

1.2. Përdorime të identifikuara si me vend për substancën apo përzierjen dhe përdorime që nuk këshillohen

Relevant identified uses : Industrial and professional uses. Perform risk assessment prior to use.
Test gas/Calibration gas.
Welding, cutting, heating and brazing.
Shield gas for welding processes.
Water treatment.
Use for manufacture of electronic/photovoltaic components.
Laboratory use.
Laser gas.
Food applications.
Medical applications.

Uses advised against : Consumer use.
Uses other than those listed above are not supported, contact your supplier for more information on other uses.

1.3. Informacione lidhur me furnizuesin dhe skedën e të dhënave të sigurisë

Company identification : GAZRA TEKNIKE SHQIPTARE SH.P.K
Rr Kavajes Dalje Kombinat
Tirana - Albania
<http://www.sol.it/msds2/msds.asp>
msds@sol.it

1.4. Numri i telefonit të urgjencës

Nuk ka në dispozicion informacione plotësuese

SEKSION 2: Identifikimi i rreziqeve

2.1. Klasifikimi i substancës apo i përzierjes

Klasifikimi sipas rregullores (CE) Nr. 1272/2008 [CLP]

Reziqe fizike	Gaze oksiduese, Kategoria 1	H270
	Gaze nën presion: Gaz i lëngshëm i ngrirë	H281

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Numër referencë: 097B

2.2. Elemente etiketimi

Etiketim sipas rregullores (CE) Nr. 1272/2008 [CLP]

Piktogramet e rrezikut (CLP) :



GHS03

GHS04

Fjalë sinjalizuese (CLP) :

Deklaratat e rrezikut (CLP) :

Deklaratat e masave paraprake (CLP)

- Prevention

- Response

- Storage

: Rrezik

: H270 - Mund të shkaktojë ose ta rrisë fuqinë e zjarrit; oksidues.

H281 - Përmban gaz të ngrirë; mund të shkaktojë djegie kriogjenike ose lëndime.

: P244 - Valvulet dhe pajisjet të mos bien në kontakt me vajrat dhe yndyrat.

P220 - Mbajini larg nga rrobat dhe materialet e tjera të djegshme.

P282 - Vishni doreza të ftohta izoluese, po ashtu edhe pajisje mbrojtëse për fytyrën dhe sytë.

: P336+P315 - Shkrijni pjesët e ngrira me ujë të vakët. Mos e fërkoni zonën e infektuar.

Kërkoni këshilla dhe përkujdesje të menjëhershme mjekësore.

P370+P376 - Në rast zjarri: ndaloni rrjedhjet nëse nuk ka rrezik.

: P403 - Ruajeni në një vend të mirëajrosur.

2.3. Rreziqe të tjera

Not classified as PBT or vPvB.

The substance/mixture has no endocrine disrupting properties.

SEKSION 3: Përbërja/informacionet mbi përbërësit

3.1. Substancat

Emri	%	Identifikues të produktit	Klasifikimi sipas rregullores (CE) Nr. 1272/2008 [CLP]
oxygen (refrigerated)	100	Nr. CAS: 7782-44-7 Nr. i KE: 231-956-9 Nr. i indeksit të KE: 008-001-00-8 REACH registration No: *1	Ox. Gas 1, H270 Press. Gas (Ref. Liq.), H281

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.

Jo i zbatueshëm

3.2. Përzierje

SEKSION 4: Ndhimja e shpejtë

4.1. Përshkrimi i ndihmës së shpejtë

- Inhalation

: Remove victim to uncontaminated area.

- Skin contact

: In case of frostbite spray with water for at least 15 minutes. Apply a sterile dressing. Obtain medical assistance.

- Eye contact

: Immediately flush eyes thoroughly with water for at least 15 minutes.

- Ingestion

: Ingestion is not considered a potential route of exposure.

4.2. Simptoma dhe efekte kryesore, akute e të mëvonshme

Continuous inhalation of concentrations higher than 75% may cause nausea, dizziness, respiratory difficulty and convulsion.

See section 11.

4.3. Indikimi për kujdes të mundshëm mjekësor të menjëhershëm dhe për trajtime të veçanta të nevojshme

None.

SEKSION 5: Masa të luftës kundër zjarrit

5.1. Mjete shuarjeje

- 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. Rreziqe të veçanta që rrjedhin nga substanca apo përzjerja

- Specific hazards : Supports combustion.
Exposure to fire may cause containers to rupture/explode.
- Hazardous combustion products : None.

5.3. Këshilla për zjarrfikësat

- 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.
If leaking do not spray water onto container. Water surrounding area (from protected position) to contain fire.
Move containers away from the fire area if this can be done without risk.
- Special protective equipment for fire fighters : 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. EN 15090 Footwear for firefighters. EN 443 Helmets for fire fighting in buildings and other structures.

SEKSION 6: Masat që duhen marrë në rast derdhjeje aksidentale

6.1. Masa individuale, pajisje mbrojtëse dhe procedurat e urgjencës

- Për mospjesëmarrësit e ekipeve të shpëtimit : Act in accordance with local emergency plan.
Try to stop release.
Evacuate area.
Eliminate ignition sources.
Ensure adequate air ventilation.
Use protective clothing.
See section 8 of the SDS for more information on personal protective equipment.
- Për pjesëmarrësit e ekipeve të shpëtimit : Monitor concentration of released product.
Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe.
See section 5.3 of the SDS for more information.

6.2. Masa parandaluese për mbrojtjen e mjedisit

- Try to stop release.
Liquid spillages can cause embrittlement of structural materials.

6.3. Metoda dhe materiali i vënies kufi dhe i pastrimit

- Ventilate area.

6.4. Referencë për seksionet e tjera

- See also sections 8 and 13.

SEKSION 7: Manipulimi dhe ruajtja

7.1. Masa që duhen marrë për një manipulim pa rrezik

- Safe use of the product : 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 regularly) checked for leaks before use.
Do not smoke while handling product.
Keep equipment free from oil and grease. For more guidance, refer to the EIGA Doc. 33 - Cleaning of Equipment for Oxygen Service downloadable at <http://www.eiga.eu>.
Use no oil or grease.
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.
Use only with equipment cleaned for oxygen service and rated for container pressure.
Avoid suck back of water, acid and alkalis.
Do not breathe gas.
- Safe handling of the gas receptacle : 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, when provided, 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 attempt to transfer gases from one cylinder/container to another.
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.
Suck back of water into the container must be prevented.
Open valve slowly to avoid pressure shock.

7.2. Kushtet e nevojshme për të garantuar sigurinë e ruajtjes, duke marrë parasysh papajtueshmëri të mundshme

For more guidance on the safe storage of liquid oxygen, liquid nitrogen or liquid argon, refer to EIGA Doc 224 " Static vacuum insulated cryogenic vessels - operation and inspection", downloadable at <http://www.eiga.eu> and consult your supplier.
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, when provided, 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.
Segregate from flammable gases and other flammable materials in store.
Store containers in location free from fire risk and away from sources of heat and ignition.
Keep away from combustible materials.

7.3. Përdorimi(e) final(e) i(të) veçantë(a)

None.

SEKSION 8: Kontrollë ekspozimi /mbrojtje individuale

8.1. Parametra kontrolli

- OEL (Occupational Exposure Limits) : None available.

DNEL (Dozë e derivuar pa efekt) : None available.

PNEC (Përqendrim(e) i(të) parashikuar(a) pa efekt) : None available.

8.2. Kontrollë ekspozimi

8.2.1. Appropriate engineering controls

Provide adequate general and local exhaust ventilation.
Systems under pressure should be regularly checked for leakages.
Avoid oxygen rich (>23,5%) atmospheres.
Gas detectors should be used when oxidising 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.

- Eye/face protection : Wear goggles and a face shield when transfilling or breaking transfer connections.
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 risks, performance level 1 or higher. Recommended types include wrist gloves from leather or synthetic material with equivalent performance, fabric gloves, fabric gloves with leather palms.
Wear cold insulating gloves when transfilling or breaking transfer connections.
Standard EN 511 - Cold insulating gloves, performance level 1 or higher. Recommended types include insulated gauntlets or gloves specifically selected to prevent liquid penetration and ingress of cryogenic liquids and to provide mechanical resistance.
 - Other : Consider the use of flame resistant safety clothing.
Standard EN ISO 14116 - Limited flame spread materials.
Wear safety shoes while handling containers.
Standard EN ISO 20345 - Personal protective equipment - Safety footwear.
- Respiratory protection : Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask.
Self contained breathing apparatus is recommended, where unknown exposure may be expected, e.g. during maintenance activities on installation systems.
None necessary.
- Thermal hazards : None in addition to the above sections.

8.2.3. Environmental exposure controls

Refer to local regulations for restriction of emissions to the atmosphere. See section 13 for specific methods for waste gas treatment.

SEKSION 9: Vetë fizike e kimike

9.1. Informacione mbi vetitë fizike e kimike thelbësore

Appearance

- Physical state at 20°C / 101.3kPa : Gaz.
- Ngjyra : Bluish liquid.

Era : Odourless.

Odour threshold is subjective and inadequate to warn of overexposure.

Pika e shkrirjes / Pika e ngrirjes : -219 °C

Pika e vlimit : -183 °C

Ndezshmëria : Jo i ndezshëm.

Kufiri minimal i shpërthimit : Not applicable.

Kufiri maksimal i shpërthimit : Not applicable.

Pika e flakërimit : Not applicable for gases and gas mixtures.

Temperatura e vetë-ndezjes : Non flammable.

Temperatura e dekompozimit : Not applicable.

pH : Not applicable for gases and gas mixtures.

Viskoziteti, kinematika	: No reliable data available.
Tretshmëri në ujë [20°C]	: 39 mg/l
Koeficienti i ndarjes n-oktanol/ujë (Log Kow)	: Not applicable for inorganic products.
Presioni i avullit [20°C]	: Not applicable.
Presioni i avullit [50°C]	: Not applicable.
Density and/or relative density	: Not applicable for gases and gas mixtures.
Relative vapour density (air=1)	: 1,1
Karakteristikat e grimcave	: Not applicable for gases and gas mixtures. Nanofoms are not relevant for gases and gas mixtures.

9.2. Informacione të tjera

9.2.1. Informacion në lidhje me klasat e rrezikut fizik

Vetitë oksiduese	: Oxidiser.
- Coefficient of oxygen equivalency (Ci)	: 1
Critical temperature [°C]	: -118 °C

9.2.2. Karakteristikat e tjera të sigurisë

Molar mass	: 32 g/mol
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SEKSION 10: Stabiliteti dhe reaktiviteti

10.1. Reaktiviteti

No reactivity hazard other than the effects described in sub-sections below.

10.2. Stabiliteti kimik

Stable under normal conditions.

10.3. Mundësi reaksionesh të rrezikshme

Risk of explosion if spilt on organic structural materials (e.g. wood or asphalt).
Violently oxidises organic material.

10.4. Kushte për t'u shmangur

Avoid moisture in installation systems.

10.5. Lëndë të papajtueshme

Consider the potential toxicity hazard due to the presence of chlorinated or fluorinated polymers in high pressure (> 30 bar) oxygen lines in case of combustion.
Keep equipment free from oil and grease. For more guidance, refer to the EIGA Doc. 33 - Cleaning of Equipment for Oxygen Service downloadable at <http://www.eiga.eu>.
May react violently with combustible materials.
May react violently with reducing agents.
For additional information on compatibility refer to ISO 11114.
Materials such as carbon steel, low alloy carbon steel and plastic become brittle at low temperatures and are subject to failure. Use appropriate materials compatible with the cryogenic conditions present in refrigerated liquefied gas systems.
Consult supplier for specific recommendations.

10.6. Produkte të rrezikshme dekompozimi

None.

SEKSION 11: Informacione toksikologjike

11.1. Informacion mbi klasat e rrezikut siç përcaktohet në Rregulloren (Ke) nr. 1272/2008

Acute toxicity	: No known toxicological effects by inhalation from this product.
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	: No known effects from this product.
STOT-single exposure	: No known effects from this product.
STOT-repeated exposure	: No known effects from this product.
Aspiration hazard	: Not applicable for gases and gas mixtures.
<u>11.2. Informacion mbi rreziqet e tjera</u>	
Informacione të tjera	: The substance/mixture has no endocrine disrupting properties.

SEKSION 12: Informacione ekologjike

12.1. Toxicity

Assessment	: No ecological damage caused by this product.
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12.2. Persistence and degradability

Assessment	: No ecological damage caused by this product.
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12.3. Bioaccumulative potential

Assessment	: No ecological damage caused by this product.
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12.4. Mobility in soil

Assessment	: No ecological damage caused by this product.
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12.5. Results of PBT and vPvB assessment

Assessment	: Not classified as PBT or vPvB.
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12.6. Vetë të agjentëve hormonalë

Assessment	: The substance/mixture has no endocrine disrupting properties.
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12.7. Other adverse effects

Efekte të tjera fatale	: Can cause frost damage to vegetation.
Effect on the ozone layer	: No effect on the ozone layer.
Effect on global warming	: None.

SEKSION 13: Konsiderata lidhur me eliminimin

13.1. Metoda të trajtimit të mbeturinave

Contact supplier if guidance is required.
May be vented to atmosphere in a well ventilated place.
Do not discharge into any place where its accumulation could be dangerous.
Ensure that the emission levels from local regulations or operating permits are not exceeded.
Refer to the EIGA code of practice Doc.30 "Disposal of Gases", downloadable at <http://www.eiga.org> for more guidance on suitable disposal methods.
Return unused product in original container to supplier.

List of hazardous waste codes (from Commission Decision 2000/532/EC as amended) : 16 05 04 *: Gases in pressure containers (including halons) containing hazardous substances.

13.2. Additional information

External treatment and disposal of waste should comply with applicable local and/or national regulations.

SEKSION 14: Informacione lidhur me transportin

14.1. Numri i KB ose numri i identifikimit

Në përputhje me dispozitat ADR / RID / IMDG / IATA / ADN	
Nr-OKB	: 1073

14.2. Emri i dërgesës së OKB-së

Transport by road/rail/inland waterways (ADR/RID/ADN)	: OXYGEN, REFRIGERATED LIQUID
Transport by air (ICAO-TI / IATA-DGR)	: Oxygen, refrigerated liquid
Transport by sea (IMDG)	: OXYGEN, REFRIGERATED LIQUID

14.3. Klasë (a) rreziku për transportin

Etiketimi



2.2 : Non-flammable, non-toxic gases.
5.1 : Oxidizing substances.

Transport by road/rail/inland waterways (ADR/RID/ADN)

Class	: 2
Classification code	: 30
Hazard identification number	: 225
Tunnel Restriction	: C/E - Tank carriage: Passage forbidden through tunnels of category C, D and E. Other carriage: Passage forbidden through tunnels of category E

Transport by sea (IMDG)

Class / Div. (Sub. risk(s))	: 2.2 (5.1)
Emergency Schedule (EmS) - Fire	: F-C
Emergency Schedule (EmS) - Spillage	: S-W

14.4. Grupi i ambalazhimit

Transport by road/rail/inland waterways (ADR/RID/ADN)	: Not applicable.
Transport by air (ICAO-TI / IATA-DGR)	: Not applicable.
Transport by sea (IMDG)	: Not applicable.

14.5. rreziqe për mjedisin

Transport by road/rail/inland waterways (ADR/RID/ADN)	: None.
Transport by air (ICAO-TI / IATA-DGR)	: None.
Transport by sea (IMDG)	: None.

14.6. Masa parandaluese të veçanta që duhen marrë nga përdoruesi

Packing Instruction(s)

Transport by road/rail/inland waterways (ADR/RID/ADN)	: P203.
Transport by air (ICAO-TI / IATA-DGR)	
Passenger and Cargo Aircraft	: Forbidden.
Cargo Aircraft only	: Forbidden.
Transport by sea (IMDG)	: P203.

Masat paraprake të veçanta të transportit

: 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. Transport masiv detar sipas instrumenteve të IMO-së

Not applicable.

SEKSION 15: Informacione mbi rregulloret

15.1. Rregulloret/legjislacioni i veçantë për substancën apo pëzierjen në lidhje me çështjen e sigurisë, shëndetit dhe mjedisit

Normativa BE

- Kufizime përdorimi : None.
Informacione të tjera, kufizime dhe dispozita ligjore : Nuk renditet në listën e PIC (Rregullorja e BE-së 649/2012).
Nuk renditet në listën e POP (Rregullorja e BE-së 2019/1021).
Seveso Directive : 2012/18/EU (Seveso III) : Listed.

Direktiva kombëtare

- Referenca rregullatore : Ensure all national/local regulations are observed.

15.2. Vlerësimi i sigurisë kimike

A CSA does not need to be carried out for this product.

SEKSION 16: Informacione të tjera

- Tregues ndryshimi : Safety data sheet in accordance with commission regulation (EU) No 2020/878.
- Shkurtime dhe akronime : 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 Standard.
UN - United Nations.
ADR - Agreement concerning the International Carriage of Dangerous Goods by Road.
IATA - International Air Transport Association.
IMDG code - 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.
- Këshilla trajnimi : Ensure operators understand the hazard of oxygen enrichment.
Further information : Classification in accordance with the procedures and calculation methods of Regulation (EC) 1272/2008 (CLP).
Key literature references and sources of data are maintained in EIGA doc 169 : 'Classification and Labelling Guide', downloadable at <http://www.Eiga.eu> .

Teksti i plotë i frazave H dhe EUH	
Ox. Gas 1	Gaze oksiduese, Kategoria 1
Press. Gas (Ref. Liq.)	Gaze nën presion: Gaz i lëngshëm i ngrirë
H270	Mund të shkaktojë ose ta rrisë fuqinë e zjarrit; oksidues.
H281	Përmban gaz të ngrirë; mund të shkaktojë djegie kriogjenike ose lëndime.

DISCLAIMER OF LIABILITY

- : Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out.
Details given in this document are believed to be correct at the time of going to press.
Whilst proper care has been taken in the preparation of this document, no liability for injury or damage resulting from its use can be accepted.

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