

Skeda e të Dhënave të Sigurisë

R410A

sipas rregullores REACH (KE) 1907/2006 e ndryshuar nga rregullorja (BE) 2020/878
Numër referencë: 134
Data e lëshimit: 1.9.2015
Data e inspektimit: 22.7.2025
Zëvendëson versionin e: 2.3.2023
Versioni: 10.0

Rrezik



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

1.1. Identifikues të produktit

Trade name : R410A
SDS no : 134

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

Relevant identified uses : Use as refrigerant.
Industrial and professional use for chemical analysis, calibration, (routine) quality control, laboratory use, under controlled conditions.

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 të ndezshme, Kategoria 1B	H221
	Gaze nën presion: Gaz i lëngshëm	H280

2.2. Elemente etiketimi

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

Piktogramet e rrezikut (CLP) :



GHS02

GHS04

Fjalë sinjalizuese (CLP) : Rrezik
Deklaratat e rrezikut (CLP) : H221 - Gaz i ndezshëm.
H280 - Përmban gaz nën presion; mund të shpërthejë nëse nxehet.

Deklaratat e masave paraprake (CLP)

- Prevention : P210 - Mbajeni larg nga nxehtësia, sipërfaqet e nxehta, shkëndijat, flakët e ekspozuara dhe nga burime të tjera të ndezshme. Ndalohet pirja e duhanit.

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- Response : P377 - Rrjedhja e gazit djegës: Mos e shuani, përveç rastit kur rrjedhja mund të mbyllet pa rrezik.
P381 - Në rast rrjedhjeje, eliminoni të gjitha burimet e ndezshme.
- Storage : P403 - Ruajeni në një vend të mirëajrosur.
P410+P403 - Mbrojeni nga rrezet e diellit. Magazinojeni në një vend me ventilit të mirë.
- Informacion plotësues : Contains fluorinated greenhouse gases listed in Regulation 2024/573.

2.3. Rreziqe të tjera

Asphyxiant in high concentrations.
Contact with liquid may cause cold burns/frostbite.
Not classified as PBT or vPvB.
The substance/mixture has no endocrine disrupting properties.

SEKSION 3: Përbërja/informacionet mbi përbërësit

3.1. Substancat Jo i zbatueshëm

3.2. Përzierje

Emri	Identifikues të produktit	%	Klasifikimi sipas rregullores (CE) Nr. 1272/2008 [CLP]
Difluoromethane (R32)	Nr. CAS: 75-10-5 Nr. i KE: 200-839-4 Nr. i indeksit të KE: nr. REACH: 01-2119471312-47	50	Flam. Gas 1B, H221 Press. Gas (Liq.), H280
Pentafluoroethane	Nr. CAS: 354-33-6 Nr. i KE: 206-557-8 Nr. i indeksit të KE: nr. REACH: 01-2119485636-25	50	Press. Gas (Liq.), H280

Tekst i plotë i deklaratave H-dhe EUH: shi seksionin 16
Contains no other components or impurities which will influence the classification of the product.

SEKSION 4: Ndihma e shpejtë

4.1. Përshkrimi i ndihmës së shpejtë

- 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 : 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

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. Indikimi për kujdes të mundshëm mjekësor të menjëhershëm dhe për trajtime të vecanta 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 përzierja

- Specific hazards : Exposure to fire may cause containers to rupture/explode.
- Hazardous combustion products : If involved in a fire the following toxic and/or corrosive fumes may be produced by thermal decomposition: Carbonyl fluoride. Hydrogen fluoride. Carbon monoxide.

5.3. Këshilla për zjarfikësat

- 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. 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.
Ensure adequate air ventilation.
Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.
Stay upwind.
See section 8 of the SDS for more information on personal protective equipment.
- Për pjesëmarrësit e ekipeve të shpëtimit : 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. Masa parandaluese për mbrojtjen e mjedisit

- Try to stop release.

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. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt. Avoid suck back of water, acid and alkalis. Do not breathe gas. Avoid release of product into work area.
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

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.

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: Kontrollle ekspozimi /mbrojtje individuale

8.1. Parametra kontrolli

Difluoromethane (R32) (75-10-5)	
DNEL: Derived no effect level (Workers)	
Afatgjatë - efekte sistematike, frymëmarrje	7035 mg/m ³

Pentafluoroethane (354-33-6)	
DNEL: Derived no effect level (Workers)	
Afatgjatë - efekte sistemike, frymëmarrje	16444 mg/m ³

Difluoromethane (R32) (75-10-5)	
PNEC: Predicted no effect concentration	
Aqua (freshwater)	0,142 mg/l
Aquatic, intermittent releases	1,42 mg/l
Sediment, freshwater	0,534 mg/kg penivejt

8.2. Kontrolle ekspozimi

8.2.1. Appropriate engineering controls

Provide adequate general and local exhaust ventilation.
Systems under pressure should be regularly 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

- Eye/face protection
 - : Wear goggles 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.
 - : Wear safety shoes while handling containers.
Standard EN ISO 20345 - Personal protective equipment - Safety footwear.
 - Other
 - : Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask.
When indicated by a risk assessment, Respiratory Protective Equipment must be used. The selection of the Respiratory Protective Device (RPD) must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected RPD.
Self contained breathing apparatus is recommended, where unknown exposure may be expected, e.g. during maintenance activities on installation systems.
- Respiratory protection
 - : None in addition to the above sections.
- Thermal hazards

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	: Colourless.
Era	: Odour threshold is subjective and inadequate to warn of overexposure. Mixture contains one or more component(s) which have the following odour: Ethereal. Odour threshold is subjective and inadequate to warn of overexposure.
Pika e shkrirjes / Pika e ngrirjes	: Not applicable for gases and gas mixtures.
Pika e vlimit	: Not applicable for gas mixtures. : Difluoromethane (R32) -51,7 °C
Ndezshmëria	: Jo i ndezshëm.
Kufiri minimal i shpërthimit	: 39,40%
Kufiri maksimal i shpërthimit	: No test data or calculation method available.
Pika e flakërimit	: Not applicable for gases and gas mixtures.
Temperatura e vetë-ndezjes	: Non flammable. : Difluoromethane (R32) 648 °C
Temperatura e dekompozimit	: Not applicable.
pH	: Not applicable for gases and gas mixtures.
Viskoziteti, kinematika	: Not applicable for gases and gas mixtures.
Tretshmëri në ujë [20°C]	: Mixture is partially soluble in water
Koeficienti i ndarjes n-oktanol/ujë (Log Kow)	: Nuk disponohet
Presioni i avullit [20°C]	: Not known. : Pentafluoroethane 1,2 bar(a) : Difluoromethane (R32) 14,8 bar(a)
Presioni i avullit [50°C]	: Nuk disponohet
Density and/or relative density	: Not applicable.
Relative vapour density (air=1)	: Heavier than air.
Karakteristikat e grimcave	: Not applicable for gases and gas mixtures.

9.2. Informacione të tjera

9.2.1. Informacion në lidhje me klasat e rrezikut fizik

Limitet e ekspozimit	: Non flammable.
Vetitë oksiduese	: No oxidising properties.

9.2.2. Karakteristikat e tjera të sigurisë

Other data	: Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level.
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SEKSION 10: Stabiliteti dhe reaktiviteti

10.1. Reaktiviteti

Data for mixtures are not available.

10.2. Stabiliteti kimik

Stable under normal conditions.

10.3. Mundësi reaksionesh të rrezikshme

None.

10.4. Kushte për t'u shmangur

Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
Avoid moisture in installation systems.

10.5. Lëndë të papajtueshme

None.
For additional information on compatibility refer to ISO 11114.

10.6. Produkte të rrezikshme dekompozimi

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SEKSION 11: Informacione toksikologjike

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

Acute toxicity	: Toxicological effects not expected by inhalation from this product if occupational exposure limit values are not exceeded.
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.

11.2. Informacion mbi rreziqet e tjera

Informacione të tjera	: The substance/mixture has no endocrine disrupting properties.
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SEKSION 12: Informacione ekologjike

12.1. Toxicity

Assessment	: Classification criteria are not met.
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12.2. Persistence and degradability

Assessment	: No data available.
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12.3. Bioaccumulative potential

Assessment	: No data available.
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12.4. Mobility in soil

Assessment	: Because of its high volatility, the product is unlikely to cause ground or water pollution. Partition into soil is unlikely.
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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	: No known effects from this product.
Effect on the ozone layer	: No effect on the ozone layer.
Effect on global warming	: 2646,03

SEKSION 13: Konsiderata lidhur me eliminimin

13.1. Metoda të trajtimit të mbeturinave

Refer to supplier's waste gas recovery programme.
Contact supplier if guidance is required.
Discharge to atmosphere in large quantities should be avoided.
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 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.

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 : 3163

14.2. Emri i dërgesës së OKB-së

Transport by road/rail/inland waterways (ADR/RID/ADN) : LIQUEFIED GAS, N.O.S. (Difluoromethane (R32), Pentafluoroethane)
Transport by air (ICAO-TI / IATA-DGR) : Liquefied gas, n.o.s. (Difluoromethane (R32), Pentafluoroethane)
Transport by sea (IMDG) : LIQUEFIED GAS, N.O.S. (Difluoromethane (R32), Pentafluoroethane)

14.3. Klasë (a) rreziku për transportin

Etiketimi :



2.2 : Non-flammable, non-toxic gases.

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

Class : 2
Classification code : 2A
Hazard identification number : 20
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 air (ICAO-TI / IATA-DGR)

Class / Div. (Sub. risk(s)) : 2.2

Transport by sea (IMDG)

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

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) : P200.
Transport by air (ICAO-TI / IATA-DGR)
Passenger and Cargo Aircraft : 200.
Cargo Aircraft only : 200.
Transport by sea (IMDG) : P200.

- 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/legjislati i veçantë për substancën apo pëzierjen në lidhje me çështjen e sigurisë, shëndetit dhe mjedisit

Normativa BE

- Kufizime përdorimi : Nuk përmban substanca të renditura në listën e kandidatëve REACH.
Informacione të tjera, kufizime dhe dispozita ligjore : (EU) 2024/573 : on fluorinated greenhouse gases and repealing Regulation (EC) No 517/2014.
Nuk përmban asnjë substancë(s) të renditur në listën e PIC (Rregullorja e BE-së 649/2012 në lidhje me eksportin dhe importin e kimikateve të rrezikshme).
Seveso Directive : 2012/18/EU (Seveso III) : Not covered.

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.

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- Këshilla trajnimi : 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).

Teksti i plotë i frazave H dhe EUH	
Flam. Gas 1B	Gaze të ndezshme, Kategoria 1B
Press. Gas (Liq.)	Gaze nën presion: Gaz i lëngshëm
H221	Gaz i ndezshëm.
H280	Përmban gaz nën presion; mund të shpërthejë nëse nxehet.

- DISCLAIMER OF LIABILITY : Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out.
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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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