

Skeda e të Dhënave të Sigurisë

R404A

sipas rregullores REACH (KE) 1907/2006 e ndryshuar nga rregullorja (BE) 2020/878
Numër referencë: 135
Data e lëshimit: 13.4.2021
Data e inspektimit: 21.7.2025
Zëvendëson versionin e: 2.3.2023
Versioni: 9.0

Kujdes



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

1.1. Identifikues të produktit

Trade name : R404A
SDS no : 135

1.2. Përdorime të identikuara 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.
Laboratory use.
Use as refrigerant.
Contact supplier for more information on 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 nën presion: Gaz i lëngshëm H280

2.2. Elemente etiketimi

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

Piktogramet e rrezikut (CLP) :



GHS04

Fjalë sinjalizuese (CLP) : Kujdes
Deklaratat e rrezikut (CLP) : H280 - Përmban gaz nën presion; mund të shpërthejë nëse nxehet.
Deklaratat e masave paraprake (CLP)
- Storage : P410+P403 - Mbrojeni nga rrezet e diellit. Magazinojeni në një vend me ventilim të mirë.

2.3. Rreziqe të tjera

Asphyxiant in high concentrations.
Contact with liquid may cause cold burns/frostbite.

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]
Trifluoroethane (R143a)	Nr. CAS: 420-46-2 Nr. i KE: 206-996-5 Nr. i indeksit të KE: nr. REACH: 01-2119492869-13	52 w/w	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	44 w/w	Press. Gas (Liq.), H280
Tetrafluoroethane (R134a)	Nr. CAS: 811-97-2 Nr. i KE: 212-377-0 Nr. i indeksit të KE: nr. REACH: 01-2119459374-33	4 w/w	Press. Gas (Liq.), H280

Tekst i plotë i deklarave 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 veçanta të nevojshme

None.

SEKSION 5: Masa të luftës kundër zjarrit

5.1. Mjete shuarjeje

- Suitable extinguishing media : Water spray or fog.
- 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: Carbon monoxide. Hydrogen fluoride. Carbonyl fluoride.

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.
Move containers away from the fire area if this can be done without risk.

Special protective equipment for fire fighters

: 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

Try to stop release.
Evacuate area.
Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe.
Ensure adequate ventilation.
Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.
Act in accordance with local emergency plan.
Stay upwind.

6.2. Masa parandaluese për mbrojtjen e miedisit

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.
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.

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

Tetrafluoroethane (R134a) (811-97-2)	
DNEL: Derived no effect level (Workers)	
Afatgjatë - efekte sistemike, frymëmarrje	13936 mg/m ³

Trifluoroethane (R143a) (420-46-2)	
DNEL: Derived no effect level (Workers)	
Afatgjatë - efekte sistemike, frymëmarrje	38800 mg/m ³

Tetrafluoroethane (R134a) (811-97-2)	
PNEC: Predicted no effect concentration	
Aqua (freshwater)	0,1 mg/l
Aqua (marine water)	0,01 mg/l
Aquatic, intermittent releases	1 mg/l
Sediment, freshwater	0,75 mg/kg penivejt
Micro-organisms in sewage treatment plant (STP)	73 mg/l

Trifluoroethane (R143a) (420-46-2)

PNEC: Predicted no effect concentration

Aqua (freshwater)	0,35 mg/l
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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

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:

• Eye/face protection

Protect eyes, face and skin from liquid splashes.
PPE compliant to the recommended EN/ISO standards should be selected.

- : Wear safety glasses with side shields.
- : 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.

- Other

- : 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 (SCBA) or positive pressure airline with mask are to be used in oxygen-deficient atmospheres.

• Thermal hazards

- : None necessary.

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
- Ngjyra

- : Gaz.
- : Colourless.
- : Ethereal.
- : Odour threshold is subjective and inadequate to warn of overexposure.

Era

Pika e shkrirjes / Pika e ngrirjes

- : Not applicable for gas mixtures.

Pika e vlimit

- : -46,7 °C

Ndezshmëria

- : Nuk disponohet

Kufiri minimal i shpërthimit

- : Nuk disponohet

Kufiri maksimal i shpërthimit

- : Nuk disponohet

Pika e flakërimit

- : Not applicable for gases and gas mixtures.

Temperatura e vetë-ndezjes

- : Not applicable for gas mixtures.

Temperatura e dekompozimit

- : Nuk disponohet

pH

- : Not applicable.

Viskoziteti, kinematika

- : Not applicable.

Tretshmëri në ujë [20°C]

- : Dati attendibili non disponibili.

Koeficienti i ndarjes n-oktanol/ujë (Log Kow)

- : Not applicable for gas mixtures.

Presioni i avullit [20°C]	: 12,34 bar(a)
	: Tetrafluoroethane (R134a) 4,7 bar(a)
	: Trifluoroethane (R143a) 11,1 bar(a)
Presioni i avullit [50°C]	: No reliable data available.
Density and/or relative density	: Not applicable.
Relative vapour density (air=1)	: Heavier than air.
Karakteristikat e grimcave	: Not applicable.

9.2. Informacione të tjera

9.2.1. Informacion në lidhje me klasat e rrezikut fizik

Vetitë shpërthyesë	: Not applicable.
Limitet e ekspozimit	: Not applicable.
Vetitë oksiduese	: None.
Critical temperature [°C]	: Not known.

9.2.2. Karakteristikat e tjera të sigurisë

Molar mass	: Not applicable for gas mixtures.
Shpejtësia e avullimit	: Not applicable for gases and gas mixtures.
Other data	: Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level.

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

None.

10.4. Kushte për t'u shmangur

None under recommended storage and handling conditions (see section 7).

10.5. Lëndë të papaitueshme

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	: Classification criteria are not met.
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Tetrafluoroethane (R134a) (811-97-2)	
LC50 Inhalacionit - Miu [ppm]	567000 ppm/4h

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 rreziket e tjera

Nuk ka në dispozicion informacione plotësuese

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.
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12.5. Results of PBT and vPvB assessment

Assessment	: No data available.
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12.6. Vetë të agjentëve hormonalë

Assessment	:
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12.7. Other adverse effects

Effect on the ozone layer	: None.
Effect on global warming	: 3921,50

SEKSION 13: Konsiderata lidhur me eliminimin

13.1. Metoda të trajtimit të mbeturinave

Refer to supplier's waste gas recovery programme.
Avoid discharge to atmosphere.
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.

List of hazardous waste codes (from Commission Decision 2000/532/EC as amended)	: 14 06 01 *: Chlorofluorocarbons, HCFC, HFC.
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13.2. Additional information

None.

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	: 3337

14.2. Emri i dërgesës së OKB-së

Transport by road/rail/inland waterways (ADR/RID/ADN)	: REFRIGERANT GAS R 404A
Transport by air (ICAO-TI / IATA-DGR)	: REFRIGERANT GAS R 404A
Transport by sea (IMDG)	: REFRIGERANT GAS R 404A

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
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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/legjislacioni i veçantë për substancën apo pëzierjen në lidhje me çështjen e sigurisë, shëndetit dhe mjedisit****Normativa BE**

- Kufizime përdorimi : None.
Nuk përmban substanca të renditura në listën e kandidatëve REACH.
- Informacione të tjera, kufizime dhe dispozita ligjore : Ensure all national/local regulations are observed.
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

Nuk ka në dispozicion informacione plotësuese

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.
- Këshilla trajnimi : The hazard of asphyxiation is often overlooked and must be stressed during operator training.
- Further information : This Safety Data Sheet has been established in accordance with the applicable European Union legislation.

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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