Skeda e të Dhënave të Sigurisë

Sulfuhekzafloride

sipas rregullores REACH (KE) 1907/2006 e ndryshuar nga rregullorja (BE) 2020/878
Numër referencë: 110
Data e inspektimit: 21.2.2023
Zëvendëson versionin e: 29.11.2021
Versioni: 9.0

Kujdes

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

1.1. Identifikues të produktit

Trade name	:	Sulfuhekzafloride
SDS no	:	110
Mjete të tjera identifikimi	:	Sulfuhekzafloride
	Nr. CAS	: 2551-62-4
	Nr. i KE	: 219-854-2
	Nr. i indeksit të KE	: ---
REACH registration No	:	01-2119458769-17
Chemical formula	:	SF6

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. Chemical reaction / Synthesis. Laboratory use. Use for manufacture of electronic/photovoltaic components. Contact supplier for more information on uses. Industrial use. Perform risk assessment prior to use.
Uses advised against	:	Do not inhale product on purpose because of the risk of asphyxiation. 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

Emergency telephone number	:	+355 (0)42 352877

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 : P403 - Ruajeni në një vend të mirëajrosur.

Informacion plotësues : Do not inhale product on purpose because of the risk of asphyxiation.
Contains fluorinated greenhouse gases listed in Annex I of EU 517/2014 as amended.

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

Emri	%	Identifikues të produktit	Klasifikimi sipas rregullores (CE) Nr. 1272/2008 [CLP]
Sulfuhekzafloride	100	Nr. CAS: 2551-62-4 Nr. i KE: 219-854-2 Nr. i indeksit të KE: REACH registration No: 01-2119458769-17	Press. Gas (Liq.), H280

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

3.2. Përzierje

Jo i zbatueshëm

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 trajtimee 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 përzierja

Specific hazards : Exposure to fire may cause containers to rupture/explode.
Hazardous combustion products : Hydrogen fluoride. Sulphur dioxide.

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 : 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.

SEKSION 6: Masat që duhen marrë në rast derdhjeje aksidentale

6.1. Masa individuale, pajisje mbrojtjeje 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 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.
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 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 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: Kontrolle ekspozimi /mbrojtje individuale

8.1. Parametra kontrolli

Sulfuhekzafloride (2551-62-4)	
SHBA - ACGIH - Limiti i Ekspozimit në Punë	
Emri i agjentit	Sulfur hexafluoride
ACGIH OEL TWA [ppm]	1000 ppm
Vërejtje (ACGIH)	TLV® Basis: Asphyxia

Referenca rregullatore	ACGIH 2019

Sulfuhekzafloride (2551-62-4)	
DNEL: Derived no effect level (Workers)	
Afatgjatë - efekte sistemike, frymëmarrje	6074 mg/m³

Sulfuhekzafloride (2551-62-4)	
PNEC: Predicted no effect concentration	
Aqua (freshwater)	0,15 mg/l
Aqua (marine water)	1,5 mg/l

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:
PPE compliant to the recommended EN/ISO standards should be selected.

• 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 risk, performance level 1 or higher.
Wear cold insulating gloves when transfilling or breaking transfer connections.
Standard EN 511 - Cold insulating gloves.
- 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 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: Veti fizike e kimike

9.1. Informacione mbi vetitë fizike e kimike thelbësore

Appearance
- Physical state at 20°C / 101.3kPa : Gaz.
- Ngjyra : Colourless.

Era : Odourless.
Odour threshold is subjective and inadequate to warn of overexposure.

Pika e shkrirjes / Pika e ngrirjes : -50,8 °C
-50,8 °C

Pika e vlimit	:	-64 °C
Ndezshmëria	:	Jo i ndezshëm.
Kufiri mininal i shpërthimit	:	Nuk disponohet
Kufiri maksimal i shpërthimit	:	Nuk disponohet
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]	:	41 mg/l
Koeficienti i ndarjes n-oktanol/ujë (Log Kow)	:	Nuk disponohet
Presioni i avullit [20°C]	:	21 bar(a)
Presioni i avullit [50°C]	:	Not applicable.
Density and/or relative density	:	Not applicable.
Relative vapour density (air=1)	:	5
Karakteristikat e grimcave	:	Not applicable.

9.2. Informacione të tjera

9.2.1. Informacion në lidhje me klasat e rrezikut fizik

Vetitë shpërthyese	:	Not applicable.
Limitet e ekspozimit	:	Non flammable.
Vetitë oksiduese	:	Not applicable.
Critical temperature [°C]	:	45,5 °C

9.2.2. Karakteristikat e tjera të sigurisë

Molar mass	:	146 g/mol
Shpejtësia e avullimit	:	Not applicable for gases and gas mixtures.
Grupi i gazeve	:	Press. Gas (Liq.).
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

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 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 rreziget e tjera

Nuk ka në dispozicion informacione plotësuese

SEKSION 12: Informacione ekologjike

12.1. Toxicity

Assessment	:	Classification criteria are not met.
EC50 48h - Daphnia magna [mg/l]	:	247 mg/l
LC50 96 h - Fish [mg/l]	:	236 mg/l

12.2. Persistence and degradability

Assessment	:	Not applicable for inorganic products.

12.3. Bioaccumulative potential

Assessment	:	Not expected to bioaccumulate due to the low log Kow (log Kow < 4). See section 9.

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.

12.5. Results of PBT and vPvB assessment

Assessment	:	Not classified as PBT or vPvB.

12.6. Veti të agjentëve hormonalë

Assessment	:	

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.
Global warming potential [CO2=1]	:	22800
Effect on global warming	:	When discharged in large quantities may contribute to the greenhouse effect. Contains fluorinated greenhouse gases listed in Annex I of EU 517/2014 as amended. For quantities refer to cylinder label.

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 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 : 1080

14.2. Emri i dërgesës së OKB-së

Transport by road/rail (ADR/RID) : SULPHUR HEXAFLUORIDE

Transport by air (ICAO-TI / IATA-DGR) : Sulphur hexafluoride

Transport by sea (IMDG) : SULPHUR HEXAFLUORIDE

14.3. Klasë (a) rreziku për transportin

Etiketimi :

2.2 : Non-flammable, non-toxic gases.

Transport by road/rail (ADR/RID)

Class : 2

Classification code : 2A

Hazard identification number : 20

Tunnel Restriction : C/E - Transporti me cisternë: Ndalohet kalimi në tunele të kategorisë C, D, dhe E. Mënyra të tjera: Ndalohet kalimi në tunele të kategorisë 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 (ADR/RID) : 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 (ADR/RID) : 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 (ADR/RID) : 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 përzierjen në lidhje me çështjen e sigurisë, shëndetit dhe mjedisit

Normativa BE

Kufizime përdorimi	:	Not allowed for magnesium die-casting. (Regulation (EU) No 517/2014). Not allowed to be used for inflating tyres. (Regulation 517/2014).
Informacione të tjera, kufizime dhe dispozita ligjore	:	Nuk renditet në listën e PIC (Rregullorja e BE-së 649/2012).
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 has been carried out.

SEKSION 16: Informacione të tjera

Tregues ndryshimi	:	Revised safety data sheet in accordance with commission regulation (EU) No 2015/830.
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 - European 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	:	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 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	
H280	Përmban gaz nën presion; mund të shpërthejë nëse nxehet.
Press. Gas (Liq.)	Gaze nën presion: Gaz i lëngshëm

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