

Skeda e të Dhënave të Sigurisë

sulphur dioxide

sipas rregullores REACH (KE) 1907/2006 e ndryshuar nga rregullorja (BE) 2020/878
Numër referencë: 113
Data e lëshimit: 1.1.2000
Data e inspektimit: 29.1.2026
Zëvendëson versionin e: 19.12.2022
Versioni: 9.0

Rrezik



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

1.1. Identifikues të produktit

Trade name : sulphur dioxide
SDS no : 113
Mjete të tjera identifikimi : sulphur dioxide
Nr. CAS : 7446-09-5
Nr. i KE : 231-195-2
Nr. i indeksit të KE : 016-011-00-9
REACH registration No : 01-2119485028-34
Chemical formula : SO₂

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

Relevant identified uses : See the list of identified uses and exposure scenarios in the annex of the safety data sheet.
Perform risk assessment prior to use.
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]

Rreziqe fizike	Gaze nën presion: Gaz i lëngshëm	H280
Rreziqe shëndetësore	Toksicitet akut (inhalacion:gaz) Kategoria 3	H331
	Gërryerje/Acarim i lëkurës, Kategoria 1, Nënkatëgoria 1B	H314
	Dëmtim serioz i syve/irritim i syve, Kategoria 1	H318
	Toksicitet në organin specifik - Ekspozim i vetëm Kategoria 1	H370

Skeda e të Dhënave të Sigurisë

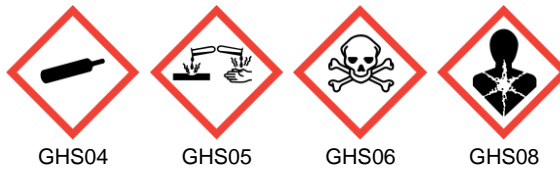
sulphur dioxide

sipas rregullores REACH (KE) 1907/2006 e ndryshuar nga rregullorja (BE) 2020/878
Numër referencë: 113

2.2. Elemente etiketimi

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

Piktogramet e rrezikut (CLP) :



Fjalë sinjalizuese (CLP) :

Deklaratat e rrezikut (CLP) :

Deklaratat e masave paraprake (CLP)

- Prevention

- Response

- Storage

: Rrezik

: H314 - Shkakton djegie të rëndë të lëkurës dhe dëmtim të syve.
H280 - Përmban gaz nën presion; mund të shpërthejë nëse nxehet.
H331 - Toksike nëse thithet.
H370 - Dëmton organet.
EUH071 - Gërryese për rrugët e frymëmarrjes.

: P280 - Vishni mbrojtëse për sytë, fytyrën, veshje mbrojtëse, doreza mbrojtëse.
P260 - Do not breathe gas, vapours.

: P303+P361+P353+P315 - IF ON SKIN : (or hair) Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Get immediate medical advice / attention.

P304+P340+P315 - IF INHALED : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get immediate medical advice / attention.

P305+P351+P338+P315 - IF IN EYES : Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice / attention.

: P405 - Të ruhet i mbyllur.

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.

Not classified as PMT or vPvM.

SEKSION 3: Përbërja/informacionet mbi përbërësit

3.1. Substancat

Emri	%	Identifikues të produktit	Klasifikimi sipas rregullores (CE) Nr. 1272/2008 [CLP]
sulphur dioxide	100	Nr. CAS: 7446-09-5 Nr. i KE: 231-195-2 Nr. i indeksit të KE: 016-011-00-9 REACH registration No: 01-2119485028-34-0032	Press. Gas (Liq.), H280 Acute Tox.3 (Inhalacion: gaz), H331 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 1, H370 EUH071

Emri	Identifikues të produktit	Kufij përqendrimi specifikë
sulphur dioxide	Nr. CAS: 7446-09-5 Nr. i KE: 231-195-2 Nr. i indeksit të KE: 016-011-00-9 REACH registration No: 01-2119485028-34-0032	(1 ≤ C < 10) STOT SE 2; H371 (10 ≤ C ≤ 100) STOT SE 1; H370

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

3.2. Përzierje

Jo i zbatueshëm

SEKSION 4: Ndhma 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 : Remove contaminated clothing. Drench affected area with water for at least 15 minutes.
- 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

Prolonged exposure to small concentrations may result in pulmonary oedema.
May cause severe chemical burns to skin and cornea. Suitable first-aid treatment should be immediately available. Seek medical advice before using product.
Material is destructive to tissue of the mucuous membranes and upper respiratory tract.
Cough, shortness of breath, headache, nausea.
See section 11.

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

Obtain medical assistance.
Treat with corticosteroid spray as soon as possible after inhalation.

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 : None that are more hazardous than the product itself.

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 : Wear gas tight chemically protective clothing in combination with self contained breathing apparatus.
Standard EN 943-2: Protective clothing against liquid and gaseous chemicals, aerosols and solid particles. Gas-tight chemical protective suits for emergency teams.
Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask.

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.
Use chemically protective clothing.
Monitor concentration of released product.
See section 5.3 of the SDS for more information.

6.2. Masa parandaluese për mbrojtjen e mjedisit

- Reduce vapour with fog or fine water spray.
Try to stop release.

6.3. Metoda dhe materiali i vënies kufi dhe i pastrimit

- Hose down area with water.
Wash contaminated equipment or sites of leaks with copious quantities of water.

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 : Do not breathe gas.
Avoid release of product into work area.
Use only lubricants and sealings approved for the specific gas service.
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.
Avoid exposure, obtain special instructions before use.
Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt.
Installation of a cross purge assembly between the container and the regulator is recommended.
Purge system with dry inert gas (e.g. helium or nitrogen) before gas is introduced and when system is placed out of service.
Avoid suck back of water, acid and alkalis.

Safe handling of the gas receptacle

- : 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

- Të ruhet i mbyllur.
- 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

sulphur dioxide (7446-09-5)	
BE - Vlera treguese e limitit të ekspozimit në punë (IOEL)	
Emri i agjentit	Sulphur dioxide
IOEL TWA	1,3 mg/m ³
	0,5 ppm
IOEL STEL	2,7 mg/m ³
	1 ppm
Referenca rregullatore	COMMISSION DIRECTIVE (EU) 2017/164
SHBA - ACGIH® - Vlera e limitit të pragut	
Emri i agjentit	Sulfur dioxide
ACGIH® TLV® STEL	0,65 mg/m ³
	0,25 ppm
Vërejtje (ACGIH®)	TLV® Basis: Pulm func; LRT irr. Notations: A4 (Not classifiable as a Human Carcinogen)

Referenca rregullatore	ACGIH 2025
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sulphur dioxide (7446-09-5)	
DNEL: Derived no effect level (Workers)	
Akute - efektet lokale, inhalacioni	2,7 mg/m ³
Afatgjatë - efekte lokale, frymëmarrje	2,7 mg/m ³

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

8.2. Kontrolle ekspozimi

8.2.1. Appropriate engineering controls

Provide adequate general and local exhaust ventilation.
Product to be handled in a closed system.
Systems under pressure should be regularly checked for leakages.
Ensure exposure is below occupational exposure limits (where available).
Gas detectors should be used when toxic 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 : PPE compliant to the recommended EN/ISO standards should be selected.
: Wear goggles and a face shield when transfilling or breaking transfer connections.
Provide readily accessible eye wash stations and safety showers.
Standard EN 166 - Personal eye-protection - specifications, or
Standard EN ISO 16321-1 Eye and face protection for occupational use Part 1 : General requirements.
- Skin protection :
- Hand protection : Wear working gloves when handling gas containers.
Wear chemically resistant protective gloves.
Standard EN 374 - Protective gloves against chemicals.
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.
Chloroprene rubber (CR).
- Other : Keep suitable chemically resistant protective clothing readily available for emergency use.
Standard EN943-1 - Full protective suits against liquid, solid and gaseous chemicals.
Wear safety shoes while handling containers.
Standard EN ISO 20345 - Personal protective equipment - Safety footwear.
- Respiratory protection : Recommended: Filter E (yellow).
Self contained breathing apparatus is recommended, where unknown exposure may be expected, e.g. during maintenance activities on installation systems.
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.
Gas filters do not protect against oxygen deficiency.
Standard EN 14387 - Gas filter(s), combined filter(s) and standard EN136, full face masks .
Keep self contained breathing apparatus readily available for emergency use.
Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask.
- 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	: Colourless.
Era	: Pungent. Odour threshold is subjective and inadequate to warn of overexposure.
Pika e shkrirjes / Pika e ngrirjes	: -75,5 °C
Pika e vlimit	: -10 °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	: If dissolved in water pH-value will be affected.
Viskoziteti, kinematika	: No reliable data available.
Tretshmëri në ujë [20°C]	: 114 g/l
Koeficienti i ndarjes n-oktanol/ujë (Log Kow)	: Not applicable for inorganic products.
Presioni i avullit [20°C]	: 3,3 bar(a)
Presioni i avullit [50°C]	: 8,4 bar(a)
Density and/or relative density	: Not applicable for gases and gas mixtures.
Relative vapour density (air=1)	: 2,3
Karakteristikat e grimcave	: Not applicable for gases and gas mixtures. Nanoforms 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	: No oxidising properties.
Critical temperature [°C]	: 158 °C

9.2.2. Karakteristikat e tjera të sigurisë

Molar mass	: 64 g/mol
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

May react violently with alkalis.
Reacts with most metals in the presence of moisture, liberating hydrogen, an extremely flammable gas.
With water causes rapid corrosion of some metals.
Reacts with water to form corrosive acids.
Moisture.
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 : Toksike nëse thithet.

LC50 Inhalacionit - Miu [ppm]	2520 ppm/1h (ADR) 1000 ppm/4h (CLP)
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Skin corrosion/irritation : Shkakton djegie të rënda të lëkurës dhe dëmtim të syve.

Serious eye damage/irritation : Shkakton dëmtim të rëndë të syve.

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 : Dëmtton organet.

Severe corrosion to the respiratory tract at high concentrations.

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 : Delayed fatal pulmonary oedema possible.

The substance/mixture has no endocrine disrupting properties.

SEKSION 12: Informacione ekologjike

12.1. Toxicity

Assessment : Classification criteria are not met.

EC50 72h - Algae [mg/l] : 48,1 mg/l

12.2. Persistence and degradability

Assessment : Not applicable for inorganic products.

12.3. Bioaccumulative potential

Assessment : Product is an inorganic gas with a low potential to bioaccumulate in aquatic species.

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. Vetë të agjentëve hormonalë

Assessment : The substance/mixture has no endocrine disrupting properties.

12.7. Other adverse effects

Efekte të tjera fatale : May cause pH changes in aqueous ecological systems.
Not classified as PMT or vPvM.

Effect on the ozone layer : No effect on the ozone layer.

Effect on global warming : No known effects from this product.

SEKSION 13: Konsiderata lidhur me eliminimin

13.1. Metoda të trajtimit të mbeturinave

Contact supplier if guidance is required.
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.
Must not be discharged to atmosphere.
Gas may be scrubbed in alkaline solution under controlled conditions to avoid violent reaction.
Return unused product in original container to supplier.
16 05 04 *: Gases in pressure containers (including halons) containing hazardous substances.

List of hazardous waste codes (from Commission Decision 2000/532/EC as amended)

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 : 1079

14.2. Emri i dërgesës së OKB-së

Transport by road/rail/inland waterways (ADR/RID/ADN) : SULPHUR DIOXIDE
Transport by air (ICAO-TI / IATA-DGR) : Sulphur dioxide
Transport by sea (IMDG) : SULPHUR DIOXIDE

14.3. Klasë (a) rreziku për transportin

Etiketimi



2.3 : Toxic gases.
8 : Corrosive substances.

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

Class : 2
Classification code : 2TC
Hazard identification number : 268
Tunnel Restriction : C/D - Tank carriage: Passage forbidden through tunnels of category C, D and E. Other carriage: Passage forbidden through tunnels of category D and E

Transport by sea (IMDG)

Class / Div. (Sub. risk(s)) : 2.3 (8)
Emergency Schedule (EmS) - Fire : F-C
Emergency Schedule (EmS) - Spillage : S-U

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 : Forbidden.
Cargo Aircraft only : Forbidden.
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.
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) : 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 : 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.
 ADN -International Carriage of Dangerous Goods by Inland Waterways.
 PROC -Process category.
 ERC – Environmental release category.
 PMT - Persistent, Mobile and Toxic.
 vPvM – very Persistent and very Mobile.

Këshilla trajnimi

: Users of breathing apparatus must be trained.
 Ensure operators understand the toxicity hazard.

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	
Acute Tox.3 (Inhalacion: gaz)	Toksicitet akut (inhalacion:gaz) Kategoria 3
Eye Dam. 1	Dëmtim serioz i syve/irritim i syve, Kategoria 1
Press. Gas (Liq.)	Gaze nën presion: Gaz i lëngshëm
Skin Corr. 1B	Gërryerje/Acarim i lëkurës, Kategoria 1, Nënkatëoria 1B
STOT SE 1	Toksicitet në organin specifik - Ekspozim i vetëm Kategoria 1
STOT SE 2	Toksicitet në organin specifik - Ekspozim i vetëm, Kategoria 2
H280	Përmban gaz nën presion; mund të shpërthejë nëse nxehet.
H314	Shkakton djegie të rëndë të lëkurës dhe dëmtim të syve.
H318	Shkakton dëmtim serioz të syve.
H331	Toksike nëse thithet.
H370	Dëmton organet.
H371	Mund të dëmtojë organet.
EUH071	Gërryese për rrugët e frymëmarrjes.

Skeda e të Dhënave të Sigurisë

sulphur dioxide

sipas rregullores REACH (KE) 1907/2006 e ndryshuar nga rregullorja (BE) 2020/878
Numër referencë: 113

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.

Shtojca e specifikimeve të sigurisë

This Annex documents the Exposure Scenarios (ESs) related to the identified uses of the registered substance. The ESs detail protective measures for workers and the environment in addition to those described in sections 7, 8, 11, 12 and 13 of the SDS that are required to ensure that the potential exposure to workers and the environment remains within acceptable levels for each of the identified uses.

Tabela e përmbajtjes së shtojcës

Përdorime të identifikuara	Nr. i skenarit të ekspozimit	Titulli i shkurtuar	Faqja
Metal treatment	EIGA113-2	Industrial uses, closed and open conditions	Error! Bookmark not defined.
Feedstock in chemical processes	EIGA113-2	Industrial uses, closed and open conditions	Error! Bookmark not defined.
Glass coating	EIGA113-2	Industrial uses, closed and open conditions	Error! Bookmark not defined.
Water treatment	EIGA113-2	Industrial uses, closed and open conditions	Error! Bookmark not defined.
Lubrication of rollers in glass manufacture	EIGA113-2	Industrial uses, closed and open conditions	Error! Bookmark not defined.
Resin curing	EIGA113-2	Industrial uses, closed and open conditions	Error! Bookmark not defined.
Formulation of mixtures in pressure receptacles	EIGA113-1	Industrial uses, closed contained conditions	Error! Bookmark not defined.
Calibration of analysis equipment	EIGA113-1	Industrial uses, closed contained conditions	Error! Bookmark not defined.
Transfilling in pressure receptacles	EIGA113-1	Industrial uses, closed contained conditions	Error! Bookmark not defined.
Refilling of refrigeration equipment	EIGA113-3	Professional uses	Error! Bookmark not defined.

Skeda e të Dhënave të Sigurisë

sulphur dioxide

sipas rregullores REACH (KE) 1907/2006 e ndryshuar nga rregullorja (BE) 2020/878
Numër referencë: 113

Wine making	EIGA113-3	Professional uses	Error! Bookmark not defined.
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1. EIGA113-2: Industrial uses, closed and open conditions

1.1. Title section

Industrial uses, closed and open conditions

Ref. SE: EIGA113-2
Data e inspektimit: 1.10.2016

Processes, tasks, activities covered	Industrial uses, including product transfers and associated laboratory activities within closed or partially closed conditions
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Mjedisi	Përshkrues përdorimi
CS1	ERC2, ERC4, ERC6a, ERC6b, ERC6d

Punonjës	Përshkrues përdorimi
CS2	PROC1
CS3	PROC2, PROC3, PROC4, PROC5, PROC8b, PROC9, PROC22, PROC23

Metoda e vlerësimit	MEASE
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1.2. Conditions of use affecting exposure

1.2.1. Control of environmental exposure: ERC2, ERC4, ERC6a, ERC6b, ERC6d

ERC2	Formulation into mixture
ERC4	Use of non-reactive processing aid at industrial site (no inclusion into or onto article)
ERC6a	Use of intermediate
ERC6b	Use of reactive processing aid at industrial site (no inclusion into or onto article)
ERC6d	Use of reactive process regulators in polymerisation processes at industrial site (inclusion or not into/onto article)

Product (article) characteristics

Physical form of product	See section 9 of the SDS, No additional information
Concentration of substance in product	≤ 100 %

Amount used, frequency and duration of use (or from service life)

Regional use tonnage:	≤ 80000 t/vit
Emission Days (days/year)	365

Technical and organisational conditions and measures

No emissions to water. In case of emissions to water, pH impact on the receiving water should be avoided, e.g. by neutralizing the effluent	
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Skenari i ekspozimit

sulphur dioxide

Shtojca e specifikimeve të sigurisë

Numër referencë: 113

Nr. CAS: 7446-09-5 Forma e produktit: Substanca Gjendja fizike: Gaz

Ensure operatives are trained to minimise releases	
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Kushtet dhe masat në lidhje me impiantin e trajtimit të ujërave të zeza urbane	
Not applicable as there is no release to wastewater	

Conditions and measures related to treatment of waste (including article waste)	
See section 13 of the SDS	

Other conditions affecting environmental exposure	
Closed systems are used in order to prevent unintended emissions	

1.2.2. Control of worker exposure: PROC1

PROC1	Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions
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Product (article) characteristics	
Physical form of product	See section 9 of the SDS, No additional information
Concentration of substance in product	≤ 100 %

Amount used (or contained in articles), frequency and duration of use/exposure	
The actual tonnage handled per shift is not considered to influence the exposure as such for this scenario. Instead, the combination of the scale of operation and level of containment/automation (as reflected in the technical conditions) is the main determinant of the process-intrinsic emission potential.	
Exposure duration	≤ 8 h/ditë
Covers frequency up to:	5 ditë/javë

Technical and organisational conditions and measures	
Handle product within a closed system	
Ensure operatives are trained to minimise exposure	
Ensure supervision is in place to check that the RMMs are in place and are being used correctly and that the OCs are being followed	

Kushtet dhe masat në lidhje me mbrojtjen personale, higjienike dhe vlerësimin shëndetësor	
See section 8 of the SDS.	

1.2.3. Control of worker exposure: PROC2, PROC3, PROC4, PROC5, PROC8b, PROC9, PROC22, PROC23

PROC2	Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions
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Skenari i ekspozimit

sulphur dioxide

Shtojca e specifikimeve të sigurisë

Numër referencë: 113

Nr. CAS: 7446-09-5 Forma e produktit: Substanca Gjendja fizike: Gaz

PROC3	Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition
PROC4	Chemical production where opportunity for exposure arises
PROC5	Mixing or blending in batch processes
PROC8b	Transfer of substance or mixture (charging and discharging) at dedicated facilities
PROC9	Zhvendosje substancash ose preparatesh në enë të vogla (linja mbushje të dedikuara, përfshire peshimin
PROC22	Manufacturing and processing of minerals and/or metals at substantially elevated temperature
PROC23	Open processing and transfer operations at substantially elevated temperature

Product (article) characteristics	
Physical form of product	See section 9 of the SDS, No additional information
Concentration of substance in product	≤ 100 %

Amount used (or contained in articles), frequency and duration of use/exposure	
The actual tonnage handled per shift is not considered to influence the exposure as such for this scenario. Instead, the combination of the scale of operation and level of containment/automation (as reflected in the technical conditions) is the main determinant of the process-intrinsic emission potential.	
Exposure duration	≤ 8 h/ditë
Covers frequency up to:	5 ditë/javë

Technical and organisational conditions and measures	
Local exhaust ventilation - efficiency of at least [%]:	90
Drain down and flush system prior to equipment break-in or maintenance.	
Apply a good standard of general or controlled ventilation when maintenance activities are carried out.	
Ensure operatives are trained to minimise exposure	
Ensure supervision is in place to check that the RMMs are in place and are being used correctly and that the OCs are being followed	

Kushtet dhe masat në lidhje me mbrojtjen personale, higjienike dhe vlerësimin shëndetësor	
Wear suitable gloves tested to EN374	Mandatory since the product is corrosive
Wear suitable working clothes	Personal protection measures have to be applied in case of potential exposure only.
Use suitable eye protection. Wear suitable face shield	Personal protection measures have to be applied in case of potential exposure only.
Face mask with an ABEK1 filter offering an assigned protection factor of 30	Personal protection measures have to be applied in case of potential exposure only.

Skenari i ekspozimit

sulphur dioxide

Shtojca e specifikimeve të sigurisë

Numër referencë: 113

Nr. CAS: 7446-09-5 Forma e produktit: Substanca Gjendja fizike: Gaz

Other conditions affecting workers exposure

Indoor or outdoor use

1.3. Exposure estimation and reference to its source

1.3.1. Environmental release and exposure: ERC2, ERC4, ERC6a, ERC6b, ERC6d

1.3.2. Worker exposure: PROC1

1.3.3. Worker exposure: PROC2, PROC3, PROC4, PROC5, PROC8b, PROC9, PROC22, PROC23

Route of exposure and type of effects	Exposure estimate	Assessment conditions	RCR
Akute - Lokale - Inhalacion	1,08 mg/m ³	Indoor or outdoor use, With LEV90%	0,4

1.4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES

1.4.1. Mjedisi

Udhëzim - Mjedisi	Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. For scaling see : www.ebrc.de/mease.html
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1.4.2. Health

Udhëzim - Shëndeti	Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. For scaling see : www.ebrc.de/mease.html
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Skenari i ekspozimit

sulphur dioxide

Shtojca e specifikimeve të sigurisë

Numër referencë: 113

Nr. CAS: 7446-09-5 Forma e produktit: Substanca Gjendja fizike: Gaz

2. EIGA113-1: Industrial uses, closed contained conditions

2.1. Title section

Industrial uses, closed contained conditions

Ref. SE: EIGA113-1
Data e inspektimit: 1.10.2016

Processes, tasks, activities covered	Industrial uses, including product transfers and associated laboratory activities within different closed or contained systems
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Mjedisi	Përshkrues përdorimi
CS1	ERC2

Punonjës	Përshkrues përdorimi
CS2	PROC1
CS3	PROC8b, PROC9

Metoda e vlerësimit	MEASE
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2.2. Conditions of use affecting exposure

2.2.1. Control of environmental exposure: ERC2

ERC2	Formulation into mixture
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Product (article) characteristics	
Physical form of product	See section 9 of the SDS, No additional information
Concentration of substance in product	≤ 100 %

Amount used, frequency and duration of use (or from service life)	
Regional use tonnage:	≤ 80000 t/vit
Emission Days (days/year)	365

Technical and organisational conditions and measures	
Use appropriate abatement systems to ensure that the emission levels defined by local regulations are not exceeded.	
No emissions to water. In case of emissions to water, pH impact on the receiving water should be avoided, e.g. by neutralizing the effluent	
Ensure operatives are trained to minimise releases	

Kushtet dhe masat në lidhje me impiantin e trajtimit të ujërave të zeza urbane	
Not applicable as there is no release to wastewater	

Skenari i ekspozimit

sulphur dioxide

Shtojca e specifikimeve të sigurisë

Numër referencë: 113

Nr. CAS: 7446-09-5 Forma e produktit: Substanca Gjendja fizike: Gaz

Conditions and measures related to treatment of waste (including article waste)

See section 13 of the SDS

Other conditions affecting environmental exposure

Closed systems are used in order to prevent unintended emissions

2.2.2. Control of worker exposure: PROC1

PROC1

Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions

Product (article) characteristics

Physical form of product

See section 9 of the SDS, No additional information

Concentration of substance in product

≤ 100 %

Amount used (or contained in articles), frequency and duration of use/exposure

The actual tonnage handled per shift is not considered to influence the exposure as such for this scenario. Instead, the combination of the scale of operation and level of containment/automation (as reflected in the technical conditions) is the main determinant of the process-intrinsic emission potential.

Exposure duration

≤ 8 h/ditë

Covers frequency up to:

5 ditë/javë

Technical and organisational conditions and measures

Handle product within a closed system

Ensure operatives are trained to minimise exposure

Ensure supervision is in place to check that the RMMs are in place and are being used correctly and that the OCs are being followed

Kushtet dhe masat në lidhje me mbrojtjen personale, higjienike dhe vlerësimin shëndetësor

See section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use

2.2.3. Control of worker exposure: PROC8b, PROC9

PROC8b

Transfer of substance or mixture (charging and discharging) at dedicated facilities

PROC9

Zhvendosje substancash ose preparatesh në enë të vogla (linja mbushje të dedikuara, përfshirë peshimin

Product (article) characteristics	
Physical form of product	See section 9 of the SDS, No additional information
Concentration of substance in product	≤ 100 %

Amount used (or contained in articles), frequency and duration of use/exposure	
The actual tonnage handled per shift is not considered to influence the exposure as such for this scenario. Instead, the combination of the scale of operation and level of containment/automation (as reflected in the technical conditions) is the main determinant of the process-intrinsic emission potential.	
Exposure duration	≤ 8 h/ditë
Covers frequency up to:	5 ditë/javë

Technical and organisational conditions and measures	
Handle product within a closed system	
During indoor processes or in cases where natural ventilation is not sufficient, LEV should be in place at points where emissions could occur. Outdoor, LEV is not generally required.	
Fill containers at dedicated fill points supplied with local extract ventilation.	
Drain down and flush system prior to equipment break-in or maintenance.	
Apply a good standard of general or controlled ventilation when maintenance activities are carried out.	
Ensure operatives are trained to minimise exposure	
Ensure supervision is in place to check that the RMMs are in place and are being used correctly and that the OCs are being followed	

Kushtet dhe masat në lidhje me mbrojtjen personale, higjienike dhe vlerësimin shëndetësor	
See section 8 of the SDS.	

Other conditions affecting workers exposure	
Indoor or outdoor use	

2.3. Exposure estimation and reference to its source

2.3.1. Environmental release and exposure: ERC2

2.3.2. Worker exposure: PROC1

Route of exposure and type of effects	Exposure estimate	Assessment conditions	RCR
Akute - Lokale - Inhalacion	0,648 mg/m ³	Indoor or outdoor use	0,24

2.3.3. Worker exposure: PROC8b, PROC9

Skenari i ekspozimit

sulphur dioxide

Shtojca e specifikimeve të sigurisë

Numër referencë: 113

Nr. CAS: 7446-09-5 Forma e produktit: Substanca Gjendja fizike: Gaz

Route of exposure and type of effects	Exposure estimate	Assessment conditions	RCR
Akute - Lokale - Inhalacion	1,08 mg/m ³	Indoor or outdoor use	0,4

2.4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES

2.4.1. Mjedisi

Udhëzim - Mjedisi	Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. For scaling see : www.ebrc.de/mease.html
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2.4.2. Health

Udhëzim - Shëndeti	Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. For scaling see : www.ebrc.de/mease.html
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Skenari i ekspozimit

sulphur dioxide

Shtojca e specifikimeve të sigurisë

Numër referencë: 113

Nr. CAS: 7446-09-5 Forma e produktit: Substanca Gjendja fizike: Gaz

3. EIGA113-3: Professional uses

3.1. Title section

Professional uses

Ref. SE: EIGA113-3
Data e inspektimit: 1.10.2016

Processes, tasks, activities covered	Professional uses, including transfer of product in non-industrial settings
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Mjedisi	Përshkrues përdorimi
CS1	ERC6a, ERC7

Punonjës	Përshkrues përdorimi
CS2	PROC8b, PROC9
CS3	PROC19

Metoda e vlerësimit	MEASE
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3.2. Conditions of use affecting exposure

3.2.1. Control of environmental exposure: ERC6a, ERC7

ERC6a	Use of intermediate
ERC7	Use of functional fluid at industrial site

Product (article) characteristics	
Physical form of product	See section 9 of the SDS, No additional information
Concentration of substance in product	≤ 100 %

Amount used, frequency and duration of use (or from service life)	
Regional use tonnage:	≤ 80000 t/vit
Emission Days (days/year)	365

Technical and organisational conditions and measures	
Use appropriate abatement systems to ensure that the emission levels defined by local regulations are not exceeded.	
No emissions to water. In case of emissions to water, pH impact on the receiving water should be avoided, e.g. by neutralizing the effluent	
Ensure operatives are trained to minimise releases	

Kushtet dhe masat në lidhje me impiantin e trajtimit të ujërave të zeza urbane	
Not applicable as there is no release to wastewater	

Skenari i ekspozimit

sulphur dioxide

Shtojca e specifikimeve të sigurisë

Numër referencë: 113

Nr. CAS: 7446-09-5 Forma e produktit: Substanca Gjendja fizike: Gaz

Conditions and measures related to treatment of waste (including article waste)

See section 13 of the SDS

Other conditions affecting environmental exposure

Closed systems are used in order to prevent unintended emissions

3.2.2. Control of worker exposure: PROC8b, PROC9

PROC8b	Transfer of substance or mixture (charging and discharging) at dedicated facilities
PROC9	Zhvendosje substancash ose preparatesh në enë të vogla (linja mbushje të dedikuara, përfshire peshimin

Product (article) characteristics

Physical form of product	See section 9 of the SDS, No additional information
Concentration of substance in product	≤ 100 %

Amount used (or contained in articles), frequency and duration of use/exposure

The actual tonnage handled per shift is not considered to influence the exposure as such for this scenario. Instead, the combination of the scale of operation and level of containment/automation (as reflected in the technical conditions) is the main determinant of the process-intrinsic emission potential.

Exposure duration	≤ 8 h/ditë
Covers frequency up to:	5 ditë/javë

Technical and organisational conditions and measures

Handle product within a closed system	
Drain down and flush system prior to equipment break-in or maintenance.	
Apply a good standard of general or controlled ventilation when maintenance activities are carried out.	
Ensure operatives are trained to minimise exposure	
Ensure supervision is in place to check that the RMMs are in place and are being used correctly and that the OCs are being followed	

Kushtet dhe masat në lidhje me mbrojtjen personale, higjienike dhe vlerësimin shëndetësor

Wear suitable gloves tested to EN374	Mandatory since the product is corrosive
Wear suitable working clothes. Chemical resistant safety shoes	Personal protection measures have to be applied in case of potential exposure only.
Use suitable eye protection. Wear suitable face shield	Personal protection measures have to be applied in case of potential exposure only.

Skenari i ekspozimit

sulphur dioxide

Shtojca e specifikimeve të sigurisë

Numër referencë: 113

Nr. CAS: 7446-09-5 Forma e produktit: Substanca Gjendja fizike: Gaz

Other conditions affecting workers exposure

Indoor or outdoor use

3.2.3. Control of worker exposure: PROC19

PROC19

Manual activities involving hand contact

Product (article) characteristics

Physical form of product

See section 9 of the SDS, No additional information

Concentration of substance in product

≤ 100 %

Amount used (or contained in articles), frequency and duration of use/exposure

The actual tonnage handled per shift is not considered to influence the exposure as such for this scenario. Instead, the combination of the scale of operation and level of containment/automation (as reflected in the technical conditions) is the main determinant of the process-intrinsic emission potential.

Exposure duration

≤ 15 min/ditë

Technical and organisational conditions and measures

Ensure operatives are trained to minimise exposure

Ensure supervision is in place to check that the RMMs are in place and are being used correctly and that the OCs are being followed

Kushtet dhe masat në lidhje me mbrojtjen personale, higjienike dhe vlerësimin shëndetësor

Wear suitable gloves tested to EN374

Mandatory since the product is corrosive

Wear suitable working clothes. Chemical resistant safety shoes

Personal protection measures have to be applied in case of potential exposure only.

Use suitable eye protection. Wear suitable face shield

Personal protection measures have to be applied in case of potential exposure only.

Face mask with an ABEK1 filter offering an assigned protection factor of 30

Other conditions affecting workers exposure

Indoor or outdoor use

3.3. Exposure estimation and reference to its source

3.3.1. Environmental release and exposure: ERC6a, ERC7

3.3.2. Worker exposure: PROC8b, PROC9

Route of exposure and type of effects	Exposure estimate	Assessment conditions	RCR
Akute - Lokale - Inhalacion	2,16 mg/m ³	Indoor or outdoor use, With LEV90%, With RPE95%	0,8

Skenari i ekspozimit

sulphur dioxide

Shtojca e specifikimeve të sigurisë

Numër referencë: 113

Nr. CAS: 7446-09-5 Forma e produktit: Substanca Gjendja fizike: Gaz

3.3.3. Worker exposure: PROC19

Route of exposure and type of effects	Exposure estimate	Assessment conditions	RCR
Akute - Lokale - Inhalacion	2,16 mg/m ³	Indoor or outdoor use, With LEV90%, With RPE95%	0,8

3.4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES

3.4.1. Mjedisi

Udhëzim - Mjedisi	Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. For scaling see : www.ebrc.de/mease.html
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3.4.2. Health

Udhëzim - Shëndeti	Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. For scaling see : www.ebrc.de/mease.html
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