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NOAL_0110

Country: DK / Language: EN

Sulphur hexafluoride

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name : Sulphur hexafluoride, Sulfur hexafluoride N30, SF6 N37, SF6 N47 Medical

SDS no : NOAL_0110

Other means of identification : Sulphur hexafluoride

CAS-No. : 2551-62-4 EC-No. : 219-854-2 EC Index-No. : ---

REACH registration No : 01-2119458769-17

Chemical formula : SF6

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses : Industrial and professional uses. Perform risk assessment prior to use.

Test gas/Calibration gas.

Laboratory use.

Chemical reaction / Synthesis.

Use for manufacture of electronic/photovoltaic components.

Contact supplier for more information on uses.

Uses advised against : Do not inhale product on purpose because of the risk of asphyxiation.

Consumer use.

Uses other than those listed above are not supported, contact your supplier for more

information on other uses.

1.3. Details of the supplier of the safety data sheet

Company identification

Supplier

AIR LIQUIDE Denmark A/S Høje Taastrupvej 42 2630 Taastrup - DENMARK T +45 76 25 25 25

info.denmark@airliquide.com

E-Mail address (competent person) : eunordic-sds@airliquide.com

1.4. Emergency telephone number

Emergency telephone number : 112

(24 / 7) Availability

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Physical hazards Gases under pressure : Liquefied gas H280



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2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)

Signal word (CLP) Warning

Hazard statements (CLP) : H280 - Contains gas under pressure; may explode if heated.

Precautionary statements (CLP)

- Storage : P410+P403 - Protect from sunlight. Store in a well-ventilated place.

Supplemental information : Contains fluorinated greenhouse gases listed in Annex I of EU 517/2014 as amended.

2.3. Other hazards

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.

SECTION 3: Composition/information on ingredients

3.1. Substances

Name	Product identifier	Composition [V-%]:	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Sulphur hexafluoride	CAS-No.: 2551-62-4 EC-No.: 219-854-2 EC Index-No.: REACH registration No: 01-2119458769- 17	100	Press. Gas (Liq.), H280

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

3.2. Mixtures Not established.

SECTION 4: First aid measures

4.1. Description of first aid measures

- 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

- 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. Most important symptoms and effects, both acute and delayed

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. Indication of any immediate medical attention and special treatment needed

None



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SECTION 5: Firefighting measures

5.1. Extinguishing media

- 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. Special hazards arising from the substance or mixture

Specific hazards : Exposure to fire may cause containers to rupture/explode.

Hazardous combustion products : Hydrogen fluoride. Sulphur dioxide.

5.3. Advice for firefighters

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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : 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

For emergency responders : 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. Environmental precautions

Try to stop release.

6.3. Methods and material for containment and cleaning up

Keep area evacuated and free from ignition sources until any spilled liquid has evaporated

(ground free from frost).

6.4. Reference to other sections

See also sections 8 and 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Safe handling of the gas receptacle

Safe use of the product

: Do not breathe gas.

Avoid release of product into atmosphere.

The product must be handled in accordance with good industrial hygiene and safety

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.

: 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. Conditions for safe storage, including any incompatibilities

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. Specific end use(s)

None.



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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Sulphur hexafluoride (2551-62-4)		
Austria - Occupational Exposure Limits		
Local name	Schwefelhexafluorid	
MAK (mg/m³)	6000 mg/m³	
MAK (OEL TWA) [ppm]	1000 ppm	
MAK (OEL STEL)	12000 mg/m³	
MAK (OEL STEL) [ppm]	2000 ppm	
Belgium - Occupational Exposure Limits		
Local name	Soufre (hexafluorure de)	
OEL TWA	6057 mg/m³	
OEL TWA [ppm]	1000 ppm	
Croatia - Occupational Exposure Limits		
Local name	Sumpor heksafluorid	
GVI (OEL TWA) [1]	6070 mg/m³	
GVI (OEL TWA) [2]	1000 ppm	
KGVI (OEL STEL)	7590 mg/m³	
KGVI (OEL STEL) [ppm]	1250 ppm	
Denmark - Occupational Exposure Limits		
Local name	Svovlhexafluorid	
OEL TWA [1]	6000 mg/m³	
OEL TWA [2]	1000 ppm	
Estonia - Occupational Exposure Limits		
Local name	Väävelheksafluoriid	
OEL TWA	6000 mg/m³	
OEL TWA [ppm]	1000 ppm	
Finland - Occupational Exposure Limits		
Local name	Rikkiheksafluoridi	
HTP (OEL TWA) [1]	6100 mg/m³	
HTP (OEL TWA) [2]	1000 ppm	
HTP (OEL STEL)	7900 mg/m³	
HTP (OEL STEL) [ppm]	1300 ppm	
France - Occupational Exposure Limits		
Local name	Hexafluorure de soufre	



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Country : DK / Language : EN

		Country : DK / Language : EN	
VME (OEL TWA)	6000 mg/m³		
VME (OEL TWA) [ppm]	1000 ppm	1000 ppm	
Remark	Valeurs recommandées/admises	Valeurs recommandées/admises	
Germany - Occupational Exposure Limits (TRGS 900)			
Local name	Schwefelhexafluorid		
AGW (OEL TWA) [1]	6100 mg/m³		
AGW (OEL TWA) [2]	1000 ppm		
Remark	DFG		
Greece - Occupational Exposure Limits			
OEL TWA	6000 mg/m³		
OEL TWA [ppm]	1000 ppm		
OEL STEL	7500 mg/m³		
OEL STEL [ppm]	1250 ppm		
Ireland - Occupational Exposure Limits			
Local name	Sulphur hexafluoride		
OEL TWA [1]	6000 mg/m³		
OEL TWA [2]	1000 ppm	1000 ppm	
OEL STEL	7500 mg/m³	7500 mg/m³	
OEL STEL [ppm]	1250 ppm	1250 ppm	
Lithuania - Occupational Exposure Limits			
Local name	Sieros heksafluoridas		
IPRV (OEL TWA)	6000 mg/m³		
IPRV (OEL TWA) [ppm]	1000 ppm	1000 ppm	
Poland - Occupational Exposure Limits			
Local name	Heksafluorek siarki		
NDS (OEL TWA)	6000 mg/m³		
Portugal - Occupational Exposure Limits			
Local name	Hexafluoreto de enxofre	Hexafluoreto de enxofre	
OEL TWA [ppm]	1000 ppm		
Slovakia - Occupational Exposure Limits			
NPHV (OEL TWA) [1]	6100 mg/m³		
NPHV (OEL TWA) [2]	1000 ppm	1000 ppm	
NPHV (OEL STEL)	48800 mg/m³	48800 mg/m³	
Slovenia - Occupational Exposure Limits			
Local name	žveplov heksafluorid		



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Sulphul Hexandonide		Country : DK / Language : EN	
OEL TWA	6100 mg/m³	Country . DR / Language . EN	
OEL TWA [ppm]	1000 ppm		
OEL STEL	24400 mg/m³		
OEL STEL [ppm]	4000 ppm		
	4000 ррш		
Spain - Occupational Exposure Limits			
Local name	Hexafluoruro de azufre		
VLA-ED (OEL TWA) [1]	6075 mg/m³		
VLA-ED (OEL TWA) [2]	1000 ppm		
Sweden - Occupational Exposure Limits			
Local name	Svavelhexafluorid		
NGV (OEL TWA)	6000 mg/m³		
NGV (OEL TWA) [ppm]	1000 ppm		
United Kingdom - Occupational Exposure Limits	·		
Local name	Sulphur hexafluoride		
WEL TWA (OEL TWA) [1]	6070 mg/m³		
WEL TWA (OEL TWA) [2]	1000 ppm		
WEL STEL (OEL STEL)	7590 mg/m³		
WEL STEL (OEL STEL) [ppm]	1250 ppm		
Iceland - Occupational Exposure Limits	Iceland - Occupational Exposure Limits		
Local name	Brennisteinshexaflúoríð		
OEL TWA	6000 mg/m³		
OEL TWA [ppm]	1000 ppm		
Norway - Occupational Exposure Limits	j		
Local name	Svovelheksafluorid		
Grenseverdi (OEL TWA) [1]	6000 mg/m³		
Grenseverdi (OEL TWA) [2]	1000 ppm		
Switzerland - Occupational Exposure Limits	'		
Local name	Schwefelhexafluorid		
MAK (OEL TWA) [1]	6000 mg/m³		
MAK (OEL TWA) [2]	1000 ppm		
Remark	Asphyxie, Formal ^{KT} - NIOSH		
USA - ACGIH - Occupational Exposure Limits			
Local name	Sulfur hexafluoride		
ACGIH OEL TWA [ppm]	1000 ppm		
Remark (ACGIH)	Asphyxia		



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	Country . DK / Language . EN	
Sulphur hexafluoride (2551-62-4)		
Austria - Occupational Exposure Limits		
Local name	Schwefelhexafluorid	
MAK (mg/m³)	6000 mg/m³	
MAK (OEL TWA) [ppm]	1000 ppm	
MAK (OEL STEL)	12000 mg/m³	
MAK (OEL STEL) [ppm]	2000 ppm	
Belgium - Occupational Exposure Limits		
Local name	Soufre (hexafluorure de)	
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OEL TWA [1]	6000 mg/m³	
OEL TWA [2]	1000 ppm	
Estonia - Occupational Exposure Limits		
Local name	Väävelheksafluoriid	
OEL TWA	6000 mg/m³	
OEL TWA [ppm]	1000 ppm	
Finland - Occupational Exposure Limits		
Local name	Rikkiheksafluoridi	
HTP (OEL TWA) [1]	6100 mg/m³	
HTP (OEL TWA) [2]	1000 ppm	
HTP (OEL STEL)	7900 mg/m³	
HTP (OEL STEL) [ppm]	1300 ppm	
France - Occupational Exposure Limits		
Local name	Hexafluorure de soufre	
VME (OEL TWA)	6000 mg/m³	
VME (OEL TWA) [ppm]	1000 ppm	



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Sulphur hexafluoride

Country : DK / Language : EN

	Odditty : Bit / Edinguago : Eit	
Remark	Valeurs recommandées/admises	
Germany - Occupational Exposure Limits (TRGS 900)		
Local name	Schwefelhexafluorid	
AGW (OEL TWA) [1]	6100 mg/m³	
AGW (OEL TWA) [2]	1000 ppm	
Remark	DFG	
Greece - Occupational Exposure Limits		
OEL TWA	6000 mg/m³	
OEL TWA [ppm]	1000 ppm	
OEL STEL	7500 mg/m³	
OEL STEL [ppm]	1250 ppm	
Ireland - Occupational Exposure Limits		
Local name	Sulphur hexafluoride	
OEL TWA [1]	6000 mg/m³	
OEL TWA [2]	1000 ppm	
OEL STEL	7500 mg/m³	
OEL STEL [ppm]	1250 ppm	
Lithuania - Occupational Exposure Limits		
Local name	Sieros heksafluoridas	
IPRV (OEL TWA)	6000 mg/m³	
IPRV (OEL TWA) [ppm]	1000 ppm	
Poland - Occupational Exposure Limits		
Local name	Heksafluorek siarki	
NDS (OEL TWA)	6000 mg/m³	
Portugal - Occupational Exposure Limits		
Local name	Hexafluoreto de enxofre	
OEL TWA [ppm]	1000 ppm	
Slovakia - Occupational Exposure Limits		
NPHV (OEL TWA) [1]	6100 mg/m³	
NPHV (OEL TWA) [2]	1000 ppm	
NPHV (OEL STEL)	48800 mg/m³	
Slovenia - Occupational Exposure Limits		
Local name	žveplov heksafluorid	
OEL TWA	6100 mg/m³	
OEL TWA [ppm]	1000 ppm	



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odipilai ilexaliaoriae		Country : DK / Language : EN	
OEL STEL	24400 mg/m³		
OEL STEL [ppm]	4000 ppm	4000 ppm	
Spain - Occupational Exposure Limits			
Local name	Hexafluoruro de azufre		
VLA-ED (OEL TWA) [1]	6075 mg/m³		
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Sweden - Occupational Exposure Limits			
Local name	Svavelhexafluorid		
NGV (OEL TWA)	6000 mg/m³		
NGV (OEL TWA) [ppm]	1000 ppm		
United Kingdom - Occupational Exposure Limit	ts		
Local name	Sulphur hexafluoride		
WEL TWA (OEL TWA) [1]	6070 mg/m³		
WEL TWA (OEL TWA) [2]	1000 ppm		
WEL STEL (OEL STEL)	7590 mg/m³		
WEL STEL (OEL STEL) [ppm]	1250 ppm		
Iceland - Occupational Exposure Limits			
Local name	Brennisteinshexaflúoríð		
OEL TWA	6000 mg/m³		
OEL TWA [ppm]	1000 ppm		
Norway - Occupational Exposure Limits			
Local name	Svovelheksafluorid		
Grenseverdi (OEL TWA) [1]	6000 mg/m³		
Grenseverdi (OEL TWA) [2]	1000 ppm		
Switzerland - Occupational Exposure Limits			
Local name	Schwefelhexafluorid		
MAK (OEL TWA) [1]	6000 mg/m³		
MAK (OEL TWA) [2]	1000 ppm		
Remark	Asphyxie, Formal ^{KT} - NIOSH		
USA - ACGIH - Occupational Exposure Limits			
Local name	Sulfur hexafluoride		
ACGIH OEL TWA [ppm]	1000 ppm		
Remark (ACGIH)	Asphyxia		

Sulphur hexafluoride (2551-62-4)

DNEL: Derived no effect level (Workers)



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Long-term - local effects, inhalation	77900 mg/m³
Long-term - systemic effects, inhalation	77900 mg/m³

Sulphur hexafluoride (2551-62-4)	
DNEL: Derived no effect level (Workers)	
Long-term - local effects, inhalation	77900 mg/m³
Long-term - systemic effects, inhalation	77900 mg/m³

Sulphur hexafluoride (2551-62-4)		
PNEC: Predicted no effect concentration		
Aqua (freshwater)	0.15 mg/l	
Aqua (marine water)	1.5 mg/l	

Sulphur hexafluoride (2551-62-4)	
PNEC: Predicted no effect concentration	
Aqua (freshwater)	0.15 mg/l
Aqua (marine water)	1.5 mg/l

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Provide adequate general and local exhaust ventilation.

Systems under pressure should be regularily 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.

: Wear goggles when transfilling or breaking transfer connections.

Standard EN 166 - Personal eye-protection - specifications.

Skin protection

· Eye/face 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.



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· Respiratory protection

: Gas filters may be used if all surrounding conditions e.g. type and concentration of the contaminant(s) and duration of use are known.

Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full

face mask.

Gas filters do not protect against oxygen deficiency.

Self contained breathing apparatus (SCBA) or positive pressure airline with mask are to be

used in oxygen-deficient atmospheres.

Standard EN 14387 - Gas filter(s), combined filter(s) and standard EN136, full face masks . Self contained breathing apparatus is recommended, where unknown exposure may be

expected, e.g. during maintenance activities on installation systems.

• 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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state at 20°C / 101.3kPa
 Colourless.
 Odour
 Gas
 Colourless.
 Odourless.

Odour threshold is subjective and inadequate to warn of overexposure.

pH : Not applicable for gases and gas mixtures.

Melting point / Freezing point : -50.8 $^{\circ}$ C -50.8 $^{\circ}$ C

Boiling point : -64 °C

Flash point : Not applicable for gases and gas mixtures.

Flammability : Non flammable.

Explosive limits : Non flammable.

Lower explosion limit : Not available

Upper explosion limit : Not available

Vapour pressure [20°C] : 21 bar(a)

Vapour pressure [50°C] : Not applicable.

Density : Not applicable

Vapour density : Not applicable for gases and gas mixtures.

Relative density, liquid (water=1) : 1.4

Relative density, gas (air=1) : 5

Water solubility : 41 mg/l

Partition coefficient n-octanol/water (Log Kow) : 1.68

Auto-ignition temperature : Non flammable.

Decomposition temperature : Not applicable.

Viscosity, kinematic : No reliable data available.

Particle characteristics : Not applicable for gases and gas mixtures.

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Explosive properties : Not applicable.

Oxidising properties : Not applicable.

Critical temperature [°C] : 45.5 °C

9.2.2. Other safety characteristics

Molar mass : 146 g/mol

Evaporation rate : Not applicable for gases and gas mixtures.

Gas group : Press. Gas (Liq.)



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Other data

Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level.

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None

None under normal use.

Reactivity : None.

10.4. Conditions to avoid

Avoid moisture in installation systems.

10.5. Incompatible materials

For additional information on compatibility refer to ISO 11114.

10.6. Hazardous decomposition products

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

be produced.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

: Toxicological effects not expected from this product if occupational exposure limit values are **Acute toxicity**

not exceeded

: No known effects from this product. Skin corrosion/irritation No known effects from this product. Serious eye damage/irritation : No known effects from this product. Respiratory or skin sensitisation : No known effects from this product. Germ cell mutagenicity : No known effects from this product. Carcinogenicity : No known effects from this product. Toxic for reproduction: Fertility : No known effects from this product. Toxic for reproduction: unborn child : No known effects from this product. STOT-single exposure : No known effects from this product.

: Not applicable for gases and gas mixtures. **Aspiration hazard**

11.2. Information on other hazards

STOT-repeated exposure

Other information : The substance/mixture has no endocrine disrupting properties.

SECTION 12: Ecological information

12.1. Toxicity

: Classification criteria are not met. Assessment

EC50 48h - Daphnia magna [mg/l] 247 mg/l EC50 72h - Algae [mg/l]

No data available.

EC50 96h Algae [mg/l] : 152 mg/l



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LC50 96 h - Fish [mg/l] : 236 mg/l

Sulphur hexafluoride (2551-62-4)	
EC50 48h - Daphnia magna [mg/l]	247 mg/l
EC50 72h - Algae [mg/l]	No data available.
EC50 96h Algae [mg/l]	152 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. Endocrine disrupting properties

The substance/mixture has no endocrine disrupting properties.

12.7. Other adverse effects

Other adverse effects : No known effects from this product.

Effect on the ozone layer : None. Global warming potential [CO2=1] : 22800

Effect on global warming : Contains fluorinated greenhouse gases listed in Annex I of EU 517/2014 as amended.

When discharged in large quantities may contribute to the greenhouse effect.

For quantities refer to cylinder label.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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.



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SECTION 14: Transport information

14.1. UN number or ID number

In accordance with ADR / RID / IMDG / IATA / ADN

UN-No. : 1080

14.2. UN proper shipping name

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. Transport hazard class(es)

Labelling

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 - 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. Packing group

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

14.5. Environmental hazards

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

14.6. Special precautions for user

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



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Special transport precautions

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. Maritime transport in bulk according to IMO instruments

Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU-Regulations

Restrictions on use : Not allowed for magnesium die-casting. (Regulation (EU) No 517/2014).

Not allowed to be used for inflating tyres. (Regulation 517/2014).

Ensure all national/local regulations are observed. National legislation

(EC) No 517/2014: on fluorinated greenhouse gases and repealing Regulation (EC) No

842/2006.

Seveso Directive: 2012/18/EU (Seveso III) Not covered.

National regulations

Ensure all national/local regulations are observed.

Germany

Water hazard class (WGK) : WGK nwg, Non-hazardous to water (Classification according to AwSV)

[German regulations] BetriebssicherheitsV mit TRBSen insbesondere TRBS 3145 / TRGS National Rules and Recommendations

725 Ortsbewegliche Druckgasbehälter", TRBS 2141, BGRegel 500 Teil 2.33: "Umgang mit Gasen", GefahrstoffV mit Technischen Regeln Gefährliche Stoffe TRGS insbesondere TRGS 407 "Tätigkeiten mit Gasen - Gefährdungsbeurteilung", TRGS 400, 500, 510, 900."

Netherlands

SZW-lijst van kankerverwekkende stoffen

The substance is not listed SZW-lijst van mutagene stoffen The substance is not listed SZW-lijst van reprotoxische stoffen - Borstvoeding The substance is not listed

The substance is not listed

SZW-lijst van reprotoxische stoffen -

: The substance is not listed

Vruchtbaarheid

SZW-lijst van reprotoxische stoffen – Ontwikkeling

: LK 2 - Liquefied or pressurized gases

Switzerland Storage class (LK)

15.2. Chemical safety assessment

A CSA has been carried out.

SECTION 16: Other information

Indication of changes : Safety data sheet in accordance with commission regulation (EU) No 2020/878.

DK - en

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Abbreviations and acronyms

: 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

Training advice : 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 .

Full text of H- and EUH-statements	
H280	Contains gas under pressure; may explode if heated.
Press. Gas (Liq.)	Gases under pressure : Liquefied gas
DICCLAIMED OF LIABILITY	

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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or damage resulting from its use can be accepted.

End of document