SAFETY DATA SHEET

Page : 1/17 Revised edition no : 5.0

Revision date : 2024-02-02

Supersedes version of : 2023-01-21

Sulphur hexafluoride

NOAL_0110 Country : SE / Language : EN

1.1. Product identifier						
Trade name SDS no Other means of identific	: NOAL_	 Sulphur hexafluoride, Sulfur hexafluoride N30, SF6 N37, SF6 N47 Medical NOAL_0110 Sulphur hexafluoride 				
	CAS-No EC-No. EC Inde	: 219-854-2				
REACH registration No	: 01-2119	458769-17				
Chemical formula	: SF6					
1.2. Relevant identifie	d uses of the substance or mixture ar	d uses advised against				
Relevant identified uses	Test ga Laborat Chemic Use for Contact Do not i Consun Uses ot	s/Calibration gas. bry use. al reaction / Synthesis. manufacture of electronic/pho supplier for more information nhale product on purpose bec ier use.				
1.3. Details of the sup	plier of the safety data sheet					
Company identificatio Supplier AIR LIQUIDE GAS AE Pulpetgatan 20 215 37 Malmö - SWEI T +46 40 38 10 00 info.sweden@airliquid	DEN					
E-Mail address (comp	etent person) : eunordic-s	ds@airliquide.com				
1.4. Emergency teleph	one number					
Emergency telephone n	umber : 112 Availab (24 / 7)	ility				
Country	Organisation/Company	Address	Emergency number	Comment		
Germany	Giftpotruf Erfurt	Nordhäuser Straße 74	+49 (0) 361 730 730			

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🖸 Air Liquid		Revised edition no : 5.0
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	Sulphur hexafluoride	NOAL_0110
	-	Country : SE / Language : EN
SECTION 2: Hazards	identification	
2.1. Classification of the s	ubstance or mixture	
Classification according to	Regulation (EC) No. 1272/2008 [CLP]	
Physical hazards	Gases under pressure : Liquefied gas	H280
2.2. Label elements		
_abelling according to Reg	ulation (EC) No. 1272/2008 [CLP]	
Hazard pictograms (CLP)	÷ 🔨	
	GHS04	
Signal word (CLP)	: Warning	
Hazard statements (CLP) Precautionary statements (C	: H280 - Contains gas under pressure	; may explode if heated.
- Storage	, P410+P403 - Protect from sunlight. S	Store in a well-ventilated place.
Supplemental information	: Contains fluorinated greenhouse gas	ses listed in Annex I of EU 517/2014 as amended.
2.3. Other hazards		
	Asphyxiant in high concentrations.	
	Contact with liquid may cause cold b	urns/frostbite.
	Not classified as PBT or vPvB.	
	The substance/mixture has no endoo	crine 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. MixturesNot established.

SECTION 4: First aid measures		
4.1. Description of first aid mea	sures	
- 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 - Ingestion	Immediately flush eyes thoroughly with water for at least 15 minutes.Ingestion is not considered a potential route of exposure.	



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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.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media - Unsuitable extinguishing media	 Water spray or fog. Product does not burn, use fire control measures appropriate for the surrounding fire. Do not use water jet to extinguish.
5.2. Special hazards arising from the substance	or mixture
Specific hazards Hazardous combustion products	Exposure to fire may cause containers to rupture/explode.Hydrogen fluoride. Sulphur dioxide.
5.3. Advice for firefighters	
Specific methods Special protective equipment for fire fighters	 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. 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 equi	pment 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.

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Sul	phur hexafluoride	NOAL_0110
		Country : SE / Language : EN
6.3. Methods and material for contain	nent and cleaning up	
C 4. Defension to other continue	Keep area evacuated and free from ignition source (ground free from frost).	ces until any spilled liquid has evaporated
6.4. Reference to other sections	See also sections 8 and 13.	
SECTION 7: Handling and stor	age	
7.1. Precautions for safe handling		
Safe use of the product	 Do not breathe gas. Avoid release of product into atmosphere. The product must be handled in accordance with procedures. Only experienced and properly instructed person Consider pressure relief device(s) in gas installatt Ensure the complete gas system was (or is regul Do not smoke while handling product. Use only properly specified equipment which is s and temperature. Contact your gas supplier if in a 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 When moving cylinders, even for short distances designed to transport cylinders. Leave valve protection caps in place until the cor wall or bench or placed in a container stand and If user experiences any difficulty operating valve Never attempt to repair or modify container valve Damaged valves should be reported immediately Keep container valve outlets clean and free from Replace valve outlet caps or plugs and container 	s should handle gases under pressure. ions. arily) checked for leaks before use. uitable for this product, its supply pressure doubt. s. drag, roll, slide or drop. , use a cart (trolley, hand truck, etc.) ntainer has been secured against either a is ready for use. discontinue use and contact supplier. es or safety relief devices. to the supplier. contaminants particularly oil and water.
<u>7.2. Conditions for safe storage, inclu</u>	is disconnected from equipment. Close container valve after each use and when e Never attempt to transfer gases from one cylinde Never use direct flame or electrical heating devic Do not remove or deface labels provided by the s of the container. Suck back of water into the container must be pre Open valve slowly to avoid pressure shock. ding any incompatibilities Observe all regulations and local requirements re Containers should not be stored in conditions like Container valve guards or caps should be in place	er/container to another. es to raise the pressure of a container. supplier for the identification of the content evented. egarding storage of containers. ely to encourage corrosion.

7.3. Specific end use(s)

None.

from falling over.

Keep away from combustible materials.

Keep container below 50°C in a well ventilated place.

Stored containers should be periodically checked for general condition and leakage.

Store containers in location free from fire risk and away from sources of heat and ignition.

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Sulphur hexafluoride

NOAL_0110 Country : SE / Language : EN

SECTION 8: Exposure controls/personal protection

Sulphur hexafluoride (2551-62-4)		
Austria - Occupational Exposure Limits		
ocal name	Schwefelhexafluorid	
AK (mg/m³)	6000 mg/m ³	
AK (OEL TWA) [ppm]	1000 ppm	
AK (OEL STEL)	12000 mg/m ³	
AK (OEL STEL) [ppm]	2000 ppm	
elgium - Occupational Exposure Limits		
ocal name	Soufre (hexafluorure de)	
EL TWA	6057 mg/m ³	
EL TWA [ppm]	1000 ppm	
roatia - Occupational Exposure Limits		
ocal name	Sumpor heksafluorid	
VI (OEL TWA) [1]	6070 mg/m ³	
VI (OEL TWA) [2]	1000 ppm	
GVI (OEL STEL)	7590 mg/m ³	
GVI (OEL STEL) [ppm]	1250 ppm	
Denmark - Occupational Exposure Limits		
ocal name	Svovlhexafluorid	
EL TWA [1]	6000 mg/m ³	
EL TWA [2]	1000 ppm	
stonia - Occupational Exposure Limits		
ocal name	Väävelheksafluoriid	
EL TWA	6000 mg/m ³	
EL TWA [ppm]	1000 ppm	
inland - Occupational Exposure Limits		
ocal name	Rikkiheksafluoridi	
TP (OEL TWA) [1]	6100 mg/m ³	
TP (OEL TWA) [2]	1000 ppm	
TP (OEL STEL)	7900 mg/m ³	
TP (OEL STEL) [ppm]	1300 ppm	
rance - Occupational Exposure Limits		
ocal name	Hexafluorure de soufre	



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Sulphur hexafluoride

Junding	r nexatiuoride	NOAL_0110	
-		Country : SE / Language : EN	
VME (OEL TWA)	6000 mg/m³		
VME (OEL TWA) [ppm]	1000 ppm		
Remark	Valeurs recommandées/admises	Valeurs recommandées/admises	
Germany - Occupational Exposure Limits (TR	RGS 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/m ³	
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		
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	1000 ppm	
NPHV (OEL STEL)	48800 mg/m ³	48800 mg/m ³	
Slovenia - Occupational Exposure Limits			
Local name	žveplov heksafluorid		
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NOAL_0110
Country : SE / Language : EN

	Country : SE / Language : EN
OEL TWA	6100 mg/m ³
OEL TWA [ppm]	1000 ppm
OEL STEL	24400 mg/m ³
OEL STEL [ppm]	4000 ppm
Spain - Occupational Exposure Limits	
Local name	Hexafluoruro de azufre
VLA-ED (OEL TWA) [1]	6075 mg/m ³
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	5
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/m ³
OEL TWA [ppm]	1000 ppm
Norway - Occupational Exposure Limits	
Local name	Svovelheksafluorid
Grenseverdi (OEL TWA) [1]	6000 mg/m ³
Grenseverdi (OEL TWA) [2]	1000 ppm
Switzerland - Occupational Exposure Limits	
Local name	Schwefelhexafluorid
MAK (OEL TWA) [1]	6000 mg/m ³
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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Sulphur hexafluoride

NOAL_0110 Country : SE / Language : EN

Sulphur hexafluoride (2551-62-4)	xafluoride (2551-62-4)
----------------------------------	------------------------

Austria - Occupational Exposure Limits	
Local name	Schwefelhexafluorid
MAK (mg/m ³)	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/m ³
OEL TWA [2]	1000 ppm
Estonia - Occupational Exposure Limits	
Local name	Väävelheksafluoriid
OEL TWA	6000 mg/m ³
OEL TWA [ppm]	1000 ppm
Finland - Occupational Exposure Limits	
Local name	Rikkiheksafluoridi
HTP (OEL TWA) [1]	6100 mg/m ³
HTP (OEL TWA) [2]	1000 ppm
HTP (OEL STEL)	7900 mg/m ³
HTP (OEL STEL) [ppm]	1300 ppm
France - Occupational Exposure Limits	
Local name	Hexafluorure de soufre
VME (OEL TWA)	6000 mg/m ³
VME (OEL TWA) [ppm]	1000 ppm



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Sulphur hexafluoride

NOAL_0110 Country : SE / Language : EN

	Country : SE / Language : En
Remark	Valeurs recommandées/admises
Germany - Occupational Exposure Limits (TRGS	\$ 900)
Local name	Schwefelhexafluorid
AGW (OEL TWA) [1]	6100 mg/m ³
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/m ³
OEL STEL [ppm]	1250 ppm
Ireland - Occupational Exposure Limits	
Local name	Sulphur hexafluoride
OEL TWA [1]	6000 mg/m ³
OEL TWA [2]	1000 ppm
OEL STEL	7500 mg/m ³
OEL STEL [ppm]	1250 ppm
Lithuania - Occupational Exposure Limits	
Local name	Sieros heksafluoridas
IPRV (OEL TWA)	6000 mg/m ³
IPRV (OEL TWA) [ppm]	1000 ppm
Poland - Occupational Exposure Limits	
Local name	Heksafluorek siarki
NDS (OEL TWA)	6000 mg/m ³
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/m ³
OEL TWA [ppm]	1000 ppm

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		Country : SE / Language : EN	
OEL STEL	24400 mg/m ³		
OEL STEL [ppm]	4000 ppm		
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 Lim	its		
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/m ³
Long-term - systemic effects, inhalation	77900 mg/m ³

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.
• 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.

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-		Country : SE / Language : EN
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 compres	sed 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) an	d standard EN136, full face masks .
	Self contained breathing apparatus is recommended, w	here unknown exposure may be
	expected, e.g. during maintenance activities on installat	ion 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	: Gas
- Colour	: Colourless.
Odour	: Odourless.
	Odour threshold is subjective and inadequate to warn of overexposure.
рН	: Not applicable for gases and gas mixtures.
Melting point / Freezing point	: -50.8 °C
	-50.8 °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	
9.2.2. Other safety characteristics Molar mass	: 146 g/mol
•	: 146 g/mol: Not applicable for gases and gas mixtures.



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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		
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. Information on other hazards		
Other information	: The substance/mixture has no endocrine disrupting properties.	

SECTION 12: Ecological information

12.1. Toxicity

Assessment EC50 48h - Daphnia magna [mg/l] EC50 72h - Algae [mg/l] EC50 96h Algae [mg/l] : Classification criteria are not met.

- : 247 mg/l
- : No data available.
- : 152 mg/l

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NOAL 0110

Country : SE / Language : EN

Sulphur hexafluoride

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.
<u>12.4. Mobility in soil</u>	
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 Effect on the ozone layer Global warming potential [CO2=1] Effect on global warming	 No known effects from this product. None. 22800 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.

14.2. UN proper shipping name

Transport by road/rail (ADR/RID) Transport by air (ICAO-TI / IATA-DGR) Transport by sea (IMDG)

14.3. Transport hazard class(es)



Transport by road/rail (ADR/RID)
Class
Classification code

Classification code Hazard identification number Tunnel Restriction

Transport by air (ICAO-TI / IATA-DGR)

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

Transport by sea (IMDG)

Class / Div. (Sub. risk(s)) Emergency Schedule (EmS) - Fire Emergency Schedule (EmS) - Spillage

14.4. Packing group

Transport by road/rail (ADR/RID) Transport by air (ICAO-TI / IATA-DGR) Transport by sea (IMDG)

14.5. Environmental hazards

Transport by road/rail (ADR/RID) Transport by air (ICAO-TI / IATA-DGR) Transport by sea (IMDG)

14.6. Special precautions for user

Packing Instruction(s)

•	
Transport by road/rail (ADR/RID)	:
Transport by air (ICAO-TI / IATA-DGR)	
Passenger and Cargo Aircraft	
Cargo Aircraft only	:
Transport by sea (IMDG)	:

2.2 : Non-flammable, non-toxic gases.

: SULPHUR HEXAFLUORIDE

: SULPHUR HEXAFLUORIDE

: Sulphur hexafluoride

: 2

Sulphur hexafluoride

: 1080

: 2A

: 20

: C/E - Tank carriage: Passage forbidden through tunnels of category C, D and E. Other carriage: Passage forbidden through tunnels of category E

- : 2.2
- : 2.2
- : F-C
- : S-V
- : Not established.
- : Not established.
- : Not established.
- : None.
- : None.
- : None.

: P200 : 200. : 200.



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Special transport precautions	 Avoid transport on vehicles where the load space i compartment. Ensure vehicle driver is aware of the potential haze 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 protection device (where provided) 	s not separated from the driver's ards of the load and knows what to do in ed) is correctly fitted.
14.7. Maritime transport in bulk accord	ling to IMO instruments	
	Not applicable.	
SECTION 15: Regulatory inform	nation	
SECTION 15. Regulatory mon	nation	
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. (Regulatio Not allowed to be used for inflating tyres. (Regulati	
National legislation	 Ensure all national/local regulations are observed. (EC) No 517/2014 : on fluorinated greenhouse gas 842/2006. 	es and repealing Regulation (EC) No
Seveso Directive : 2012/18/EU (Seveso II	I) : Not covered.	
National regulations		
Ensure all national/local regulations are o	bserved.	
Germany		
Water hazard class (WGK)	: WGK nwg, Non-hazardous to water (Classification	according to AwSV)
National Rules and Recommendations	 [German regulations] BetriebssicherheitsV mit TRE 725 Ortsbewegliche Druckgasbehälter", TRBS 214 Gasen", GefahrstoffV mit Technischen Regeln Gef TRGS 407 "Tätigkeiten mit Gasen - Gefährdungsb 	3Sen insbesondere TRBS 3145 / TRGS 11, BGRegel 500 Teil 2.33: "Umgang mit fährliche Stoffe TRGS insbesondere
Netherlands		
Nethenanus		
SZW-lijst van kankerverwekkende stoffen		
SZW-lijst van kankerverwekkende stoffen SZW-lijst van mutagene stoffen	: The substance is not listed : The substance is not listed	

SZW-lijst van reprotoxische stoffen – Borstvoeding	: The substance is not listed
SZW-lijst van reprotoxische stoffen –	: The substance is not listed
Vruchtbaarheid	
SZW-lijst van reprotoxische stoffen – Ontwikkeling	: The substance is not listed

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.

Section	Changed item	Change	Comments
1.3	Company	Modified	Version 5.0. New address in Sweden. (This change only applies to the Swedish (SE) version of this SDS)

	Air	lia	uid	P
C		цЧ	uiu	C

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Sulphur hexafluoride

NOAL_0110
Country : SE / Language : EN

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	
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. 	

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