

21% Oxygen, 1% Argon in Nitrogen

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Reference number: SDS 01189 Issue date: 2/20/2020 Revision date: 1/13/2023 Supersedes version of: 8/25/2022 Version: 3.0





1.1. Product identifier	
SDS no	: SDS 01189
1.2. Relevant identified use	s of the substance or mixture and uses advised against
Relevant identified uses Uses advised against	 Industrial and professional uses. Perform risk assessment prior to use. 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	of the safety data sheet
Air Liquide UK Ltd. Station Road Coleshill B46 1JY Birmingham United Kingdom safety.aluk@airliquide.com	
1.4. Emergency telephone	number
Emergency telephone numbe	r : 01675 462695 (Available 24/7)
SECTION 2: Hazards i	dentification
<u>2.1. Classification of the su</u> Classification according to	
<u>2.1. Classification of the su</u> Classification according to	bstance or mixture Regulation (EC) No. 1272/2008 [CLP]
2.1. Classification of the su Classification according to Physical hazards G 2.2. Label elements	bstance or mixture Regulation (EC) No. 1272/2008 [CLP]
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2.1. Classification of the su Classification according to Physical hazards G 2.2. Label elements Labelling according to Regu Hazard pictograms (CLP) Signal word (CLP) Hazard statements (CLP) Precautionary statements (CLP)	bstance or mixture Regulation (EC) No. 1272/2008 [CLP] ases under pressure : Compressed gas H280 ulation (EC) No. 1272/2008 [CLP] : : : : : : : : : : : : :
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SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Nitrogen	CAS-No.: 7727-37-9 EC-No.: 231-783-9 EC Index-No.: REACH-no: *1	78	Press. Gas (Comp.), H280
Oxygen	CAS-No.: 7782-44-7 EC-No.: 231-956-9 EC Index-No.: 008-001-00-8 REACH-no: *1	21	Ox. Gas 1, H270 Press. Gas (Comp.), H280
Argon	CAS-No.: 7440-37-1 EC-No.: 231-147-0 EC Index-No.: REACH-no: *1	1	Press. Gas (Comp.), H280

Full text of H- and EUH-statements: see section 16

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

*1: Listed in Annex IV / V REACH, exempted from registration.

*3: Registration not required: Substance manufactured or imported < 1t/y.

SECTION 4: First aid measures

4.1. Description of first aid measures

- Inhalation	: Adverse effects not expected from this product.
- Skin contact	: Adverse effects not expected from this product.
- Eye contact	: Adverse effects not expected from this product.
- Ingestion	: Ingestion is not considered a potential route of exposure.

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

No effect on living tissue. 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	: 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	 Supports combustion. Exposure to fire may cause containers to rupture/explode. 	
Hazardous combustion products	: None.	



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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Reference number: SDS 01189

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	 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. Stay upwind. See section 8 of the SDS for more information on personal protective equipment. 	
For emergency responders	: See section 5.3 of the SDS for more information.	
6.2. Environmental precautions		
	None.	
6.3. Methods and material for containment and cleaning up		
	None.	
6.4. Reference to other sections		
	See also sections 8 and 13.	

SECTION 7: Handling and storage

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 good industrial hygiene and safety procedures.
	Only experienced and properly instructed persons should handle gases under pressure.
	Consider pressure relief device(s) in gas installations.
	Ensure the complete gas system was (or is regularily) checked for leaks before use.
	Do not smoke while handling product.
	Use only properly specified equipment which is suitable for this product, its supply pressure
	and temperature. Contact your gas supplier if in doubt.
	Use only oxygen approved lubricants and oxygen approved sealings.
	Avoid suck back of water, acid and alkalis.



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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Reference number: SDS 01189

Safe handling of the gas receptacle	: Refer to supplier's container handling instructions.
	Do not allow backfeed into the container.
	Protect containers from physical damage; do not drag, roll, slide or drop.
	When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.)
	designed to transport cylinders.
	Leave valve protection caps in place until the container has been secured against either a
	wall or bench or placed in a container stand and is ready for use.
	If user experiences any difficulty operating valve discontinue use and contact supplier.
	Never attempt to repair or modify container valves or safety relief devices.
	Damaged valves should be reported immediately to the supplier.
	Keep container valve outlets clean and free from contaminants particularly oil and water.
	Replace valve outlet caps or plugs and container caps where supplied as soon as container is disconnected from equipment.
	Close container valve after each use and when empty, even if still connected to equipment.
	Never attempt to transfer gases from one cylinder/container to another.
	Never use direct flame or electrical heating devices to raise the pressure of a container.
	Do not remove or deface labels provided by the supplier for the identification of the content
	of the container.
	Suck back of water into the container must be prevented.
	Open valve slowly to avoid pressure shock.
7.2. Conditions for safe storage, including any	<u>/ incompatibilities</u>
	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.

None.

	SECTION 8: Exposure controls/personal protection	
DNEL (Derived-No Effect Level) : None available. PNEC (Predicted No-Effect Concentration) : None available. 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. 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 th risks related to the use of the product and to select the PPE that matches the relevant rist. The following recommendations should be considered: PPE compliant to the recommended EN/ISO standards should be selected. • Eye/face protection : Wear safety glasses with side shields. Standard EN 166 - Personal eye-protection - specifications.	8.1. Control parameters	
PNEC (Predicted No-Effect Concentration) : None available. 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. 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 th risks related to the use of the product and to select the PPE that matches the relevant ris The following recommendations should be considered: PPE compliant to the recommended EN/ISO standards should be selected. • Eye/face protection : Wear safety glasses with side shields. Standard EN 166 - Personal eye-protection - specifications.	OEL (Occupational Exposure Limits)	: None available.
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Standard EN 166 - Personal eye-protection - specifications.		•
	Eye/face protection	
Skin protection		Standard EN 166 - Personal eye-protection - specifications.
- F	Skin protection	



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- Hand protection	: Wear working gloves when handling gas containers.
- Other	Standard EN 388 - Protective gloves against mechanical risk, performance level 1 or higher. : Wear safety shoes while handling containers.
	Standard EN ISO 20345 - Personal protective equipment - Safety footwear.
Respiratory protection	 Never use any kind of filtering respiratory protection equipment when working with this substance due to it having poor or no warning properties. None necessary.
Thermal hazards	: None in addition to the above sections.
8.2.3. Environmental exposure controls	
	None necessary.

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.
Melting point / Freezing point	: Not applicable for gas mixtures.
Boiling point	: Not applicable for gas mixtures.
	It is technically not possible to determine the boiling point or range of this mixture. Component with lowest boiling point: Nitrogen -196 °C
Flammability	: Non flammable.
Lower explosion limit	: Not available.
Upper explosion limit	: Not available.
Flash point	: Not applicable for gases and gas mixtures.
Auto-ignition temperature	: Non flammable.
Decomposition temperature	: Not applicable.
pH	: Not applicable for gases and gas mixtures.
Viscosity, kinematic	: No reliable data available.
Water solubility [20°C]	: Mixture is partially soluble in water
Partition coefficient n-octanol/water (Log Kow)	: Not applicable for gas mixtures.
Vapour pressure [20°C]	: Not applicable.
Vapour pressure [50°C]	: Not applicable.
Density and/or relative density	: Not applicable.
Relative vapour density (air=1)	: Lighter or similar to air.
Particle characteristics	: Not applicable.

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Explosive properties Explosion limits Oxidising properties	Not applicable.Non flammable.Not applicable.
9.2.2. Other safety characteristics Molar mass Evaporation rate Other data	Not applicable for gas mixtures.Not applicable for gases and gas mixtures.None.

SECTION 10: Stability and reactivity

10.1. Reactivity

No reactivity hazard other than the effects described in sub-sections below. Data for mixture are not available.

This mixture contains components with the following reactivity : Violently oxidises organic material.



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10.2. Chemical stability	
	Stable under normal conditions.
10.3. Possibility of hazardous reactions	
	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	: No toxicological 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.
STOT-repeated exposure	: No known effects from this product.
Aspiration hazard	: Not applicable for gases and gas mixtures.
11.2. Information on other hazards	

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

by this product.

Oxygen (7782-44-7)	
EC50 48h - Daphnia magna [mg/l]	No data available.
EC50 72h - Algae [mg/l]	No data available.
LC50 96 h - Fish [mg/l]	No data available.

Argon (7440-37-1)	
EC50 48h - Daphnia magna [mg/l]	No data available.
EC50 72h - Algae [mg/l]	No data available.



21% Oxygen, 1% Argon in Nitrogen

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Argon (7440-37-1)		
LC50 96 h - Fish [mg/l]	No data available.	
	•	
Nitrogen (7727-37-9)		
EC50 48h - Daphnia magna [mg/l]	No data available.	
EC50 72h - Algae [mg/l]	No data available.	
LC50 96 h - Fish [mg/l]	No data available.	
12.2. Persistence and degradability		
Assessment	: No ecological damage caused by this product.	
12.3. Bioaccumulative potential		
Assessment	: No ecological damage caused by this product.	
<u>12.4. Mobility in soil</u>		
Assessment	: No ecological damage caused by this product.	
12.5. Results of PBT and vPvB assessment		
Assessment	: Not classified as PBT or vPvB.	
12.6. Endocrine disrupting properties		
Assessment	:	
12.7. Other adverse effects		
Other adverse effects	: No known effects from this product.	
Effect on the ozone layer	: No effect on the ozone layer.	
Effect on global warming	: No known effects from this product.	

SECTION 13: Disposal considerations 13.1. Waste treatment methods		
	External treatment and disposal of waste should comply with applicable local and/or national regulations.	

SECTION 14: Transport information

14.1. UN number or ID number

In accordance with ADR / RID / IMDG / IATA / ADN UN-No. : 1956



21% Oxygen, 1% Argon in Nitrogen

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Reference number: SDS 01189

14.2. UN proper shipping name

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

- : COMPRESSED GAS, N.O.S. (Nitrogen, Oxygen)
- : Compressed gas, n.o.s. (Nitrogen, Oxygen)
- : COMPRESSED GAS, N.O.S. (Nitrogen, Oxygen)

14.3. Transport hazard class(es)

Labelling

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

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)

Special transport precautions

- 2.2 : Non-flammable, non-toxic gases. : 2 : 1A : 20 : E - Passage forbidden through tunnels of category E : 2.2 : 2.2 : F-C : S-V : Not applicable. : Not applicable. : Not applicable. : None. : None. : None. : P200. : 200. : 200. : P200. : 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.



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SECTION 15: Regulatory information

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

EU-Regulations	
Restrictions on use	: None. Contains no substance on the REACH candidate list.
Other information, restriction and prohibition regulations Seveso Directive : 2012/18/EU (Seveso III)	 Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals. Not covered.
National regulations	
Regulatory reference	: Ensure all national/local regulations are observed.
15.2. Chemical safety assessment	
	A CSA does not need to be carried out for this product.

SECTION 16: Other information	
Indication of changes	: Safety data sheet in accordance with commission regulation (EU) No 2020/878.
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	: None.
Further information	: Classification using data from databases maintained by the European Industrial Gases Association (EIGA). Data is maintained in EIGA doc 169 : 'Classification and Labelling
	Guide', downloadable at : http://www.eiga.eu.
	Classification in accordance with the procedures and calculation methods of Regulation (EC) 1272/2008 (CLP).

Full text of H- and EUH-statements	
H270	May cause or intensify fire; oxidiser.
H280	Contains gas under pressure; may explode if heated.
Ox. Gas 1	Oxidising Gases, Category 1
Press. Gas (Comp.)	Gases under pressure : Compressed gas



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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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