

Danger

## Safety Data Sheet

## ≤ 30% CO2 in Oxygen

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Reference number: SDS 00204 Issue date: 8/14/2014 Revision date: 1/9/2023 Version: 4.0



1.1. Product identifier	
SDS no	: SDS 00204
1.2. Relevant identified uses of the s	ubstance or mixture and uses advised against
Relevant identified uses	: Industrial and professional uses. 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. Details of the supplier of the safe	ety data sheet
Air Liquide UK Ltd	
Station Road, Coleshill	
Birmingham, B46 1JY	
<u>1.4. Emergency telephone number</u>	
Emergency telephone number	: 01675 462695 (Available 24/7)
SECTION 2: Hazards identific	ation
2.1. Classification of the substance of	or mixture
Classification according to Regulation	n (EC) No. 1272/2008 [CLP]
Physical hazards Oxidising G	ases, Category 1 H270
Casos und	er pressure : Compressed gas H280
Gases unu	
2.2. Label elements	
2.2. Label elements Labelling according to Regulation (E	
2.2. Label elements Labelling according to Regulation (E Hazard pictograms (CLP) Signal word (CLP)	C) No. 1272/2008 [CLP] GHS03 GHS04 : Danger
2.2. Label elements Labelling according to Regulation (E Hazard pictograms (CLP) Signal word (CLP)	C) No. 1272/2008 [CLP] GHS03 GHS04 : Danger : H270 - May cause or intensify fire; oxidiser.
2.2. Label elements Labelling according to Regulation (E Hazard pictograms (CLP) Signal word (CLP) Hazard statements (CLP)	C) No. 1272/2008 [CLP] GHS03 GHS04 : Danger
2.2. Label elements Labelling according to Regulation (E Hazard pictograms (CLP) Signal word (CLP) Hazard statements (CLP) Precautionary statements (CLP)	<ul> <li>C) No. 1272/2008 [CLP]</li> <li> i i i i i i i i i i i i i i i i i i i</li></ul>
2.2. Label elements Labelling according to Regulation (E Hazard pictograms (CLP) Signal word (CLP) Hazard statements (CLP) Precautionary statements (CLP) - Prevention	<ul> <li>C) No. 1272/2008 [CLP]</li> <li>i i i i i i i i i i i i i i i i i i i</li></ul>
2.2. Label elements Labelling according to Regulation (E Hazard pictograms (CLP) Signal word (CLP) Hazard statements (CLP) Precautionary statements (CLP) - Prevention - Response	<ul> <li>C) No. 1272/2008 [CLP]</li> <li> i i i i i i i i i i i i i i i i i i i</li></ul>
2.2. Label elements Labelling according to Regulation (E Hazard pictograms (CLP) Signal word (CLP) Hazard statements (CLP) Precautionary statements (CLP) - Prevention - Response - Storage	<ul> <li>C) No. 1272/2008 [CLP]</li> <li>Image: Change Contains gas under pressure; may explode if heated.</li> <li>P220 - Keep away from combustible materials. P244 - Keep valves and fittings free from oil and grease.</li> <li>P370+P376 - In case of fire: Stop leak if safe to do so.</li> </ul>
2.2. Label elements	<ul> <li>C) No. 1272/2008 [CLP]</li> <li>Image: Change Contains gas under pressure; may explode if heated.</li> <li>P220 - Keep away from combustible materials. P244 - Keep valves and fittings free from oil and grease.</li> <li>P370+P376 - In case of fire: Stop leak if safe to do so.</li> </ul>



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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]
Oxygen	CAS-No.: 7782-44-7 EC-No.: 231-956-9 EC Index-No.: 008-001-00-8 REACH-no: *1	63 – 77	Ox. Gas 1, H270 Press. Gas (Comp.), H280
Carbon dioxide	CAS-No.: 124-38-9 EC-No.: 204-696-9 EC Index-No.: REACH-no: *1	30	Press. Gas (Liq.), 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	<ul> <li>Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor. Perform cardiopulmonary resuscitation if breathing stopped.</li> </ul>
- 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	s, both acute and delayed

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 : 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 that are more hazardous than the product itself.



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5.3. Advice for firefighters	
Specific methods	<ul> <li>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.</li> <li>If possible, stop flow of product.</li> <li>Use water spray or fog to knock down fire fumes if possible.</li> <li>Move containers away from the fire area if this can be done without risk.</li> </ul>
Special protective equipment for fire fighters	<ul> <li>Standard protective clothing and equipment (Self Contained Breathing Apparatus) for fire fighters.</li> <li>Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask.</li> <li>Standard EN 469 - Protective clothing for firefighters. Standard - EN 659: Protective gloves for firefighters.</li> </ul>

#### **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.	
	Eliminate ignition sources.	
	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 :	Monitor concentration of released product.	
	Wear self-contained breathing apparatus when entering area unless atmosphere is proved	
	to be safe.	
	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 clea	aning up	
	Ventilate area.	
6.4. Reference to other sections		
	See also sections 8 and 13.	



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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Reference number: SDS 00204

#### **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.
	Keep equipment free from oil and grease. For more guidance, refer to the EIGA Doc. 33 - Cleaning of Equipment for Oxygen Service downloadable at http://www.eiga.eu.
	Use no oil or grease.
	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.
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 inc	compatibilities
	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.
	Segregate from flammable gases and other flammable materials in store.
	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.

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

DNEL (Derived-No Effect Level)

: None available.



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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. Ensure exposure is below occupational exposure limits (where available). Gas detectors should be used when oxidising 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. pe	rsonal 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	<ul> <li>Wear safety glasses with side shields.</li> <li>Standard EN 166 - Personal eve-protection - specifications.</li> </ul>
Skin protection	
- Hand protection	: Wear working gloves when handling gas containers. Standard EN 388 - Protective gloves against mechanical risk, performance level 1 or higher.
- Other	<ul> <li>Wear safety shoes while handling containers.</li> <li>Standard EN ISO 20345 - Personal protective equipment - Safety footwear.</li> </ul>
Respiratory protection	<ul> <li>Gas filters may be used if all surrounding conditions e.g. type and concentration of the contaminant(s) and duration of use are known.</li> <li>Use gas filters with full face mask, where exposure limits may be exceeded for a short-term period, e.g. connecting or disconnecting containers.</li> <li>Gas filters do not protect against oxygen deficiency.</li> <li>Standard EN 14387 - Gas filter(s), combined filter(s) and standard EN136, full face masks .</li> </ul>
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.
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: Oxygen -183 °C
Flammability	: Non flammable.
Lower explosion limit	: Not available.
Upper explosion limit	: Not available.
Flash point	: Not applicable for gas mixtures.
Auto-ignition temperature	: Non flammable.
Decomposition temperature	: Not applicable.
pH	: Not applicable for gas mixtures.
Viscosity, kinematic	: Not applicable.
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)	: Heavier than air.



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Particle characteristics	: Not applicable.
9.2. Other information	
9.2.1. Information with regard to phy	vsical hazard classes
Explosive properties	: Not applicable.
Explosion limits	: Non flammable.
Oxidising properties	: Oxidiser.
Oxidising power (OP)	: Oxidising power, based on ISO10156 calculation : 60.87 %
9.2.2. Other safety characteristics	
Molar mass	: Not applicable for gas mixtures.
Evaporation rate	: Not applicable for gas mixtures.
Other data	: Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below

: 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. Data for mixture are not available. This mixture contains components with the following reactivity : Violently oxidises organic material.
10.2. Chemical stability	
	Stable under normal conditions.
10.3. Possibility of hazardous reactions	
	Violently oxidises organic material.
10.4. Conditions to avoid	
	None. Avoid moisture in installation systems.
10.5. Incompatible materials	
	May react violently with combustible materials. May react violently with reducing agents. Keep equipment free from oil and grease. For more guidance, refer to the EIGA Doc. 33 - Cleaning of Equipment for Oxygen Service downloadable at http://www.eiga.eu. 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.

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.	



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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	: For more information, see 'EIGA Safety Info 24: Carbon Dioxide, Physiological Hazards' at www.eiga.eu.
	Unlike simple asphyxiants, carbon dioxide has the ability to cause death even when normal

h even when normal oxygen levels (20-21%) are maintained. 5% CO2 has been found to act synergistically to increase the toxicity of certain other gases (CO, NO2). CO2 has been shown to enhance the production of carboxy- or met-hemoglobin by these gases possibly due to carbon dioxide's stimulatory effects on the respiratory and circulatory systems.

#### **SECTION 12: Ecological information**

#### 12.1. Toxicity

Assessment	: No ecological damage caused by this product.
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.

## Carbon dioxide (124-38-9)

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.

12.3. Bioaccumulative potential         Assessment       : No ecological damage caused by this product.         12.4. Mobility in soil         Assessment       : No data available.         Assessment       : No data available.         Assessment       : No ecological damage caused by this product.         12.5. Results of PBT and vPvB assessment       : No ecological damage caused by this product.         12.5. Results of PBT and vPvB assessment       : Not classified as PBT or vPvB.         12.6. Endocrine disrupting properties       .         Assessment       : Not classified as PBT or vPvB.         12.6. Endocrine disrupting properties       .         Assessment       : Not classified as PBT or vPvB.         12.6. Endocrine disrupting properties       .         Assessment       : Not classified as PBT or vPvB.         12.6. Endocrine disrupting properties       .         Assessment       : Not classified as PBT or vPvB.         12.7. Other adverse effects       .         Other adverse effects       : No known effects from this product.	Oxygen (7782-44-7)	
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.         12.4. Mobility in soil         Assessment       : No data available.         Assessment       : No ecological damage caused by this product.         12.5. Results of PBT and vPvB assessment       : No ecological damage caused by this product.         12.5. Results of PBT and vPvB assessment       : Not classified as PBT or vPvB.         12.6. Endocrine disrupting properties       Assessment         Assessment       : Not classified as PBT or vPvB.         12.6. Endocrine disrupting properties       Assessment         Assessment       : Not classified as PBT or vPvB.         12.6. Endocrine disrupting properties       Assessment         Assessment       : Not classified as PBT or vPvB.         12.6. Endocrine disrupting properties       Assessment         Assessment       : No known effects from this product.	EC50 48h - Daphnia magna [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.         12.4. Mobility in soil         Assessment       : No data available.         Assessment       : No data available.         Assessment       : No ecological damage caused by this product.         12.5. Results of PBT and vPvB assessment       : No ecological damage caused by this product.         12.5. Results of PBT and vPvB assessment       : Not classified as PBT or vPvB.         12.6. Endocrine disrupting properties       Assessment         Assessment       : Not classified as PBT or vPvB.         12.7. Other adverse effects       :         Other adverse effects       : No known effects from this product.	EC50 72h - Algae [mg/l]	No data available.
Assessment:No ecological damage caused by this product.12.3. Bioaccumulative potential:Assessment:No ecological damage caused by this product.12.4. Mobility in soil:Assessment:No data available.Assessment:No data available.Assessment:No ecological damage caused by this product.12.5. Results of PBT and vPvB assessment:No ecological damage caused by this product.12.5. Results of PBT and vPvB assessment:Not classified as PBT or vPvB.12.6. Endocrine disrupting properties:Not classified as PBT or vPvB.Assessment::Secological damage caused by this product.12.7. Other adverse effects:No known effects from this product.	LC50 96 h - Fish [mg/l]	No data available.
12.3. Bioaccumulative potential         Assessment       : No ecological damage caused by this product.         12.4. Mobility in soil	12.2. Persistence and degradability	
Assessment:No ecological damage caused by this product.12.4. Mobility in soil.Assessment:No data available.Assessment:No ecological damage caused by this product.12.5. Results of PBT and vPvB assessment:No ecological damage caused by this product.12.5. Results of PBT and vPvB assessment:Not classified as PBT or vPvB.Assessment:Not classified as PBT or vPvB.12.6. Endocrine disrupting properties:.Assessment:.12.7. Other adverse effects:Other adverse effects:0ther adverse effects:No known effects from this product.	Assessment :	No ecological damage caused by this product.
12.4. Mobility in soil	12.3. Bioaccumulative potential	
Assessment       : No data available.         Assessment       : No ecological damage caused by this product.         12.5. Results of PBT and vPvB assessment       : Not classified as PBT or vPvB.         Assessment       : Not classified as PBT or vPvB.         12.6. Endocrine disrupting properties       .         Assessment       : Not classified as PBT or vPvB.         12.7. Other adverse effects       .         Other adverse effects       : Not known effects from this product.	Assessment :	No ecological damage caused by this product.
Assessment       : No ecological damage caused by this product.         12.5. Results of PBT and vPvB assessment       : Not classified as PBT or vPvB.         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.	<u>12.4. Mobility in soil</u>	
12.5. Results of PBT and vPvB assessment       : Not classified as PBT or vPvB.         Assessment       : Not classified as PBT or vPvB.         12.6. Endocrine disrupting properties       .         Assessment       : .         12.7. Other adverse effects       : Not known effects from this product.	Assessment :	No data available.
Assessment       : Not classified as PBT or vPvB.         12.6. Endocrine disrupting properties	Assessment :	No ecological damage caused by this product.
12.6. Endocrine disrupting properties         Assessment       :         12.7. Other adverse effects         Other adverse effects       : No known effects from this product.	12.5. Results of PBT and vPvB assessment	
Assessment : <u>12.7. Other adverse effects</u> Other adverse effects : No known effects from this product.	Assessment :	Not classified as PBT or vPvB.
12.7. Other adverse effects         Other adverse effects         : No known effects from this product.	12.6. Endocrine disrupting properties	
Other adverse effects : No known effects from this product.	Assessment :	
	12.7. Other adverse effects	
Effect on the ozone layer : No effect on the ozone layer.	Other adverse effects :	No known effects from this product.
	Effect on the ozone layer :	No effect on the ozone layer.



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Effect on global warming

: Contains greenhouse gas(es).

SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
List of hazardous waste codes (from Commission Decision 2000/532/EC as amended)	<ul> <li>Contact supplier if guidance is required.</li> <li>May be vented to atmosphere in a well ventilated place.</li> <li>Do not discharge into any place where its accumulation could be dangerous.</li> <li>Ensure that the emission levels from local regulations or operating permits are not exceeded.</li> <li>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.</li> <li>Return unused product in original container to supplier.</li> <li>16 05 04 *: Gases in pressure containers (including halons) containing hazardous substances.</li> </ul>
13.2. Additional information	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.	: 3156
14.2. UN proper shipping name	
Transport by road/rail (ADR/RID) Transport by air (ICAO-TI / IATA-DGR) Transport by sea (IMDG)	<ul> <li>COMPRESSED GAS, OXIDIZING, N.O.S. (Oxygen, Carbon dioxide)</li> <li>Compressed gas, oxidizing, n.o.s. (Oxygen, Carbon dioxide)</li> <li>COMPRESSED GAS, OXIDIZING, N.O.S. (Oxygen, Carbon dioxide)</li> </ul>
14.3. Transport hazard class(es)	
Labelling	
	2.2 : Non-flammable, non-toxic gases. 5.1 : Oxidizing substances.
Transport by road/rail (ADR/RID)	-
Class	: 2
Classification code	: 10
Hazard identification number	: 25
Tunnel Restriction	: E - Passage forbidden through tunnels of category E
Transport by air (ICAO-TI / IATA-DGR)	
Class / Div. (Sub. risk(s))	: 2.2 (5.1)
Transport by sea (IMDG)	
Class / Div. (Sub. risk(s))	: 2.2 (5.1)
Emergency Schedule (EmS) - Fire	: F-C
Emergency Schedule (EmS) - Spillage	: S-W
14.4. Packing group	
Transport by road/rail (ADR/RID)	: Not applicable.
Transport by air (ICAO-TI / IATA-DGR)	: Not applicable.
Transport by sea (IMDG)	: Not applicable.
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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.
Special transport precautions	<ul> <li>Avoid transport on vehicles where the load space is not separated from the driver's compartment.</li> <li>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.</li> <li>Before transporting product containers: <ul> <li>Ensure there is adequate ventilation.</li> <li>Ensure that containers are firmly secured.</li> <li>Ensure valve is closed and not leaking.</li> <li>Ensure valve outlet cap nut or plug (where provided) is correctly fitted.</li> <li>Ensure valve protection device (where provided) is correctly fitted.</li> </ul> </li> </ul>
14.7. Maritime transport in bulk according to IMO	<u>instruments</u>
	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 : None. Contains no substance on the REACH candidate list. Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament Other information, restriction and prohibition and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals. regulations Seveso Directive : 2012/18/EU (Seveso III) Covered. · National regulations Regulatory reference : Ensure all national/local regulations are observed.

#### 15.2. Chemical safety assessment

## SECTION 16: Other information Indication of changes : Safety data sheet in accordance with commission regulation (EU) No 2020/878.

A CSA does not need to be carried out for this product.



#### ≤ 30% CO2 in Oxygen

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Reference number: SDS 00204

Abbreviations and acronyms	<ul> <li>ATE - Acute Toxicity Estimate.</li> <li>CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008.</li> <li>REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.</li> <li>EINECS - European Inventory of Existing Commercial Chemical Substances.</li> <li>CAS# - Chemical Abstract Service number.</li> <li>PPE - Personal Protection Equipment.</li> <li>LC50 - Lethal Concentration to 50 % of a test population.</li> <li>RMM - Risk Management Measures.</li> <li>PBT - Persistent, Bioaccumulative and Toxic.</li> <li>vPvB - Very Persistent and Very Bioaccumulative.</li> <li>STOT - SE : Specific Target Organ Toxicity - Single Exposure.</li> <li>CSA - Chemical Safety Assessment.</li> <li>EN - European Standard.</li> <li>UN - United Nations.</li> <li>ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road.</li> </ul>
	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	: Ensure operators understand the hazard of oxygen enrichment.
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	
May cause or intensify fire; oxidiser.	
Contains gas under pressure; may explode if heated.	
Oxidising Gases, Category 1	
Gases under pressure : Compressed gas	
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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