



# Oxygen, compressed

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Reference number: EIGA097A

Issue date: 16/01/2013 Revision date: 30/01/2025 Supersedes version of: 04/10/2024 Version: 1.8

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

#### 1.1. Product identifier

Product form	: Substance
Name	: Oxygen, compressed
Trade name	: CONOXIA® (Sauerstoff med.); BIOGON® O E948; Sauerstoff; Sauerstoff 3.5; Sauerstoff 4.5; Sauerstoff 5.0; Sauerstoff KW-frei; Sauerstoff Höhenatmung; Sauerstoff 6.0;
EC Index-No.	: 008-001-00-8
EC-No.	: 231-956-9
CAS-No.	: 7782-44-7
REACH registration No	: Listed in Annex IV / V REACH, exempted from registration.
Product code	: 000010021701
Formula	: O <sub>2</sub>

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

##### 1.2.1. Relevant identified uses

Relevant identified uses	: Industrial and professional uses. Perform risk assessment prior to use. Consumer use. Test gas/Calibration gas. Chemical reaction / Synthesis. Laboratory use. Food applications. Shield gas for welding processes. Use for manufacture of electronic/photovoltaic components. Water treatment. Laser gas. Welding, cutting, heating and brazing.
Use of the substance/mixture	: Balance gas for mixtures. Carrier gas. Combustion, melting and cutting processes. Process gas. Oxidizing agent Raw material for pharmaceutical products

##### 1.2.2. Uses advised against

Uses advised against	: None.
Restrictions on use	: None.

#### 1.3. Details of the supplier of the safety data sheet

Linde Gas GmbH  
Carl-von-Linde-Platz 1  
A-4651 Stadl-Paura  
Austria  
T +43 50 4273  
[office@at.linde-gas.com](mailto:office@at.linde-gas.com)



# Oxygen, compressed

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### 1.4. Emergency telephone number

Emergency number : UMCO/NCEC: +44 1865 407333 (English); +49 89 220 61012 (German)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Physical hazards	Oxidising Gases, Category 1	H270
	Gases under pressure : Compressed gas	H280

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

#### Adverse physicochemical, human health and environmental effects

No additional information available

### 2.2. Label elements

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

Hazard pictograms (CLP) :



GHS03



GHS04

Signal word (CLP) : Danger

Hazard statements (CLP) : H270 - May cause or intensify fire; oxidiser.  
H280 - Contains gas under pressure; may explode if heated.

#### Precautionary statements (CLP)

- Prevention : P220 - Keep away from clothing and other combustible materials.  
P244 - Keep valves and fittings free from oil and grease.
- Response : P370+P376 - In case of fire: Stop leak if safe to do so.
- Storage : P403 - Store in a well-ventilated place.

### 2.3. Other hazards

Other hazards : 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	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Oxygen, compressed	CAS-No.: 7782-44-7 EC-No.: 231-956-9 EC Index-No.: 008-001-00-8 REACH-no: *1	100	Ox. Gas 1, H270 Press. Gas (Comp.), H280

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



# Oxygen, compressed

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

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.

### 3.2. Mixtures

Not applicable

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation	: Remove victim to uncontaminated area.
First-aid measures after skin contact	: Adverse effects not expected from this product.
First-aid measures after eye contact	: Adverse effects not expected from this product.
First-aid measures after ingestion	: Ingestion is not considered a potential route of exposure.

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

Most important symptoms and effects, both acute and delayed	Continuous inhalation of concentrations higher than 75% may cause nausea, dizziness, respiratory difficulty and convulsion. See section 11.
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### 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

Reactivity in case of fire	: No reactivity hazard other than the effects described in sub-sections below.
Specific hazards	: Supports combustion. Exposure to fire may cause containers to rupture/explode.
Hazardous combustion products	: None.

### 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.
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# Oxygen, compressed

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Special protective equipment for fire fighters : Standard protective clothing and equipment (Self Contained Breathing Apparatus) for fire fighters. Standard EN 469 - Protective clothing for firefighters. Standard - EN 659: Protective gloves for firefighters.  
Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

Emergency procedures : Act in accordance with local emergency plan. Try to stop release. Evacuate area. Eliminate ignition sources. Ensure adequate air ventilation. See section 8 of the SDS for more information on personal protective equipment.

##### 6.1.2. For emergency responders

Emergency procedures : 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 cleaning up

Methods and material for containment and cleaning up : Ventilate area.

#### 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 : Use only oxygen approved lubricants and oxygen approved sealings.  
Use only with equipment cleaned for oxygen service and rated for container pressure.  
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.  
The product must be handled in accordance with good industrial hygiene and safety procedures.  
Only experienced and properly instructed persons should handle gases under pressure.  
Consider pressure relief device(s) in gas installations.  
Ensure the complete gas system was (or is regularly) checked for leaks before use.  
Do not smoke while handling product.  
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.  
Do not breathe gas.



# Oxygen, compressed

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

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 incompatibilities

Conditions for safe storage, including any incompatibilities : Segregate from flammable gases and other flammable materials in store.  
 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.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

No additional information available

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available



# Oxygen, compressed

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### 8.1.4. DNEL and PNEC

Oxygen, compressed (7782-44-7)	
DNEL/DMEL (additional information)	
Additional information	None available.
PNEC (additional information)	
Additional information	None available.

Additional information : None available.

### 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Avoid oxygen rich (>23,5%) atmospheres. Gas detectors should be used when oxidising gases may be released. Provide adequate general and local exhaust ventilation. Consider the use of a work permit system e.g. for maintenance activities. Systems under pressure should be regularly checked for leakages.

### 8.2.2. Personal protection equipment

#### 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.

#### Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

##### Eye protection:

Wear safety glasses with side shields.

Standard EN 166 - Personal eye-protection - specifications

#### 8.2.2.2. Skin protection

##### Hand protection:

Wear working gloves when handling gas containers.

Standard EN 388 - Protective gloves against mechanical risks, performance level 1 or higher.

##### Other skin protection

Consider the use of flame resistant safety clothing.

Standard EN ISO 14116 - Limited flame spread materials.

Wear safety shoes while handling containers.

Standard EN ISO 20345 - Personal protective equipment - Safety footwear.

##### Other information:

Consider the use of flame resistant safety clothing.

Standard EN ISO 14116 - Limited flame spread materials.

Wear safety shoes while handling containers.

Standard EN ISO 20345 - Personal protective equipment - Safety footwear.



# Oxygen, compressed

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### 8.2.2.3. Respiratory protection

**Respiratory protection:**

None necessary.

Self contained breathing apparatus is recommended, where unknown exposure may be expected, e.g. during maintenance activities on installation systems. Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask.

### 8.2.2.4. Thermal hazards

**Thermal hazard protection:**

None in addition to the above sections.

### 8.2.3. Environmental exposure controls

**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	: Gas
Colour	: Colourless.
Form	: Compressed gas
Odour	: Odourless.
Odour threshold	: Odour threshold is subjective and inadequate to warn of overexposure.
Melting point	: -219 °C
Freezing point	: Not applicable
Boiling point	: -183 °C
Flammability	: Non flammable.
Oxidising properties	: Oxidiser.
Explosive limits	: Not known.
Lower explosion limit	: Not applicable.
Upper explosion limit	: Not applicable.
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.
Viscosity, dynamic	: No reliable data available.
Solubility in water	: 0.039 mg/l
Partition coefficient n-octanol/water (Log Kow)	: Not applicable for inorganic products.
Partition coefficient n-octanol/water (Log Pow)	: Not applicable for gas mixtures.
Vapour pressure	: Not applicable.
Vapour pressure at 50°C	: Not applicable.
Critical pressure	: 5043 kPa
Density	: Not applicable for gases and gas mixtures.
Relative density	: 1.1 EC-TEMP: 0; EC-PRESS: 1013,25-KPA; EC-REFMAT: Water
Relative vapour density at 20°C	: Not applicable.
Relative gas density	: 1.1
Particle characteristics	: Not applicable
	Not applicable for gases and gas mixtures.
	Nanoforms are not relevant for gases and gas mixtures.



# Oxygen, compressed

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

Ci : 1  
 Critical temperature : -118 °C

#### 9.2.2. Other safety characteristics

Molecular mass : 32 g/mol  
 Gas group : Compressed gas

## 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

Violently oxidises organic material.

### 10.4. Conditions to avoid

Avoid moisture in installation systems.

### 10.5. Incompatible materials

Consider the potential toxicity hazard due to the presence of chlorinated or fluorinated polymers in high pressure (> 30 bar) oxygen lines in case of combustion. 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

None.

## SECTION 11: Toxicological information

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

Acute toxicity	: No known toxicological effects from this product.
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: No known effects from this product. pH: Not applicable for gases and gas mixtures.
Serious eye damage/irritation	: No known effects from this product. pH: Not applicable for gases and gas mixtures.
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.
Reproductive toxicity	: Not classified





# Oxygen, compressed

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

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.

### Oxygen, compressed (7782-44-7)

Viscosity, kinematic	No reliable data available.
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## 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

No additional information available

### 11.2.2. Other information

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

## SECTION 12: Ecological information

### 12.1. Toxicity

Assessment	: No ecological damage caused by this product.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified
Not rapidly degradable	

### Oxygen, compressed (7782-44-7)

LC50 96 h - Fish [mg/l]	No data available.
EC50 48h - Daphnia magna [mg/l]	No data available.
EC50 72h - Algae [mg/l]	No data available.

### 12.2. Persistence and degradability

### Oxygen, compressed (7782-44-7)

Assessment	No ecological damage caused by this product.
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### 12.3. Bioaccumulative potential

### Oxygen, compressed (7782-44-7)

Partition coefficient n-octanol/water (Log Pow)	Not applicable for gas mixtures.
Partition coefficient n-octanol/water (Log Kow)	Not applicable for inorganic products.
Assessment	No ecological damage caused by this product.

### 12.4. Mobility in soil

### Oxygen, compressed (7782-44-7)

Assessment	No ecological damage caused by this product.
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# Oxygen, compressed

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### 12.5. Results of PBT and vPvB assessment

Assessment : Not classified as PBT or vPvB.

### 12.6. Endocrine disrupting properties

Other adverse effects : No known effects from this product.  
 Assessment : 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 : No effect on the ozone layer.  
 Effect on global warming : None.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Contact supplier if guidance is required. May be vented to atmosphere in a well ventilated place. 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.eu> for more guidance on suitable disposal methods. Do not discharge into any place where its accumulation could be dangerous. 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.

## SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number or ID number</b>				
UN 1072	UN 1072	UN 1072	UN 1072	UN 1072
<b>14.2. UN proper shipping name</b>				
OXYGEN, COMPRESSED	OXYGEN, COMPRESSED	Oxygen, compressed	OXYGEN, COMPRESSED	OXYGEN, COMPRESSED
<b>Transport document description</b>				
UN 1072 OXYGEN, COMPRESSED, 2.2 (5.1), (E)	UN 1072 OXYGEN, COMPRESSED, 2.2 (5.1)	UN 1072 Oxygen, compressed, 2.2 (5.1)	UN 1072 OXYGEN, COMPRESSED, 2.2 (5.1)	UN 1072 OXYGEN, COMPRESSED, 2.2 (5.1)
<b>14.3. Transport hazard class(es)</b>				
2.2 (5.1)	2.2 (5.1)	2.2 (5.1)	2.2 (5.1)	2.2 (5.1)



# Oxygen, compressed

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

ADR	IMDG	IATA	ADN	RID
<b>14.4. Packing group</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information available				

### 14.6. Special precautions for user

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.

#### Overland transport

Classification code (ADR) : 10  
 Special provisions (ADR) : 355, 655, 662  
 Limited quantities (ADR) : 0  
 Excepted quantities (ADR) : E0  
 Packing instructions (ADR) : P200  
 Mixed packing provisions (ADR) : MP9  
 Portable tank and bulk container instructions (ADR) : (M)  
 Tank code (ADR) : CxBN(M)  
 Tank special provisions (ADR) : TA4, TT9  
 Vehicle for tank carriage : AT  
 Transport category (ADR) : 3  
 Special provisions for carriage - Loading, unloading and handling (ADR) : CV9, CV10, CV36  
 Hazard identification number (Kemler No.) : 25  
 Orange plates :



Tunnel restriction code (ADR) : E

#### Transport by sea

Special provisions (IMDG) : 355  
 Limited quantities (IMDG) : 0  
 Excepted quantities (IMDG) : E0  
 Packing instructions (IMDG) : P200  
 EmS-No. (Fire) : F-C  
 EmS-No. (Spillage) : S-W



# Oxygen, compressed

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Stowage category (IMDG) : A  
 Properties and observations (IMDG) : Non-flammable, odourless gas. Strong oxidizing agent. Heavier than air (1.1).

### Air transport

PCA Excepted quantities (IATA) : E0  
 PCA Limited quantities (IATA) : FORBIDDEN  
 PCA limited quantity max net quantity (IATA) : FORBIDDEN  
 PCA packing instructions (IATA) : 200  
 PCA max net quantity (IATA) : 75kg  
 CAO packing instructions (IATA) : 200  
 CAO max net quantity (IATA) : 150kg  
 Special provisions (IATA) : A175, A302  
 ERG code (IATA) : 2X

### Inland waterway transport

Classification code (ADN) : 10  
 Special provisions (ADN) : 355, 655, 662  
 Limited quantities (ADN) : 0  
 Excepted quantities (ADN) : E0  
 Equipment required (ADN) : PP  
 Number of blue cones/lights (ADN) : 0

### Rail transport

Classification code (RID) : 10  
 Special provisions (RID) : 355, 655, 662  
 Limited quantities (RID) : 0  
 Excepted quantities (RID) : E0  
 Packing instructions (RID) : P200  
 Mixed packing provisions (RID) : MP9  
 Portable tank and bulk container instructions (RID) : (M)  
 Tank codes for RID tanks (RID) : CxBN(M)  
 Special provisions for RID tanks (RID) : TA4, TT9  
 Transport category (RID) : 3  
 Special provisions for carriage - Loading, unloading and handling (RID) : CW9, CW10, CW36  
 Colis express (express parcels) (RID) : CE3  
 Hazard identification number (RID) : 25

### 14.7. Maritime transport in bulk according to IMO instruments

IBC code : Not applicable.

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

##### REACH Annex XVII (Restriction List)

Not listed on REACH Annex XVII

##### REACH Annex XIV (Authorisation List)

Not listed on REACH Annex XIV (Authorisation List)



# Oxygen, compressed

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### REACH Candidate List (SVHC)

Not listed on the REACH Candidate List

### PIC Regulation (Prior Informed Consent)

Not listed on the PIC list (Regulation EU 649/2012)

### POP Regulation (Persistent Organic Pollutants)

Not listed on the POP list (Regulation EU 2019/1021)

### Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

### VOC Directive (2004/42)

Restrictions on use : None.

### Seveso Directive (Disaster Risk Reduction)

Seveso Directive : 2012/18/EU (Seveso III) : Listed.

Seveso III Part II (Named dangerous substances)	Qualifying quantity (tonnes)	
	Lower-tier	Upper-tier
Oxygen	200	2000

### Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

### 15.1.2. National regulations

Ensure all national/local regulations are observed.

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

Council Directive 89/391/EEC on the introduction of measures to encourage improvements in the safety and health of workers at work

Directive 2016/425/EEC on personal protective equipment

Directive 2014/34/EU on equipment and protective systems intended for use in potentially explosive atmospheres (ATEX)

Only products that comply with the food regulations (EC) No. 1333/2008 and (EU) No. 231/2012 and are labelled as such may be used as food additives.

This Safety Data Sheet has been produced to comply with Regulation (EU) 2015/830.

## 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:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
	ADR - Agreement concerning the International Carriage of Dangerous Goods by Road
	ATE - Acute Toxicity Estimate
BLV	Biological limit value



# Oxygen, compressed

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Abbreviations and acronyms:	
BOD	Biochemical oxygen demand (BOD)
CAO	Cargo Aircraft only / Cargo Aircraft only
CAS-No.	Chemical Abstract Service number
	CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
COD	Chemical oxygen demand (COD)
	CSA - Chemical Safety Assessment
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
EC	European Inventory of Existing Commercial Chemical Substances
ED	Endocrine disrupting properties
	EINECS - European Inventory of Existing Commercial Chemical Substances
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
IOELV	Indicative Occupational Exposure Limit Value
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
N.O.S.	Not Otherwise Specified
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PCA	Passenger and Cargo Aircraft / Passenger and Cargo Aircraft
PNEC	Predicted No-Effect Concentration
	PPE - Personal Protection Equipment
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
	RMM - Risk Management Measures
STP	Sewage treatment plant



# Oxygen, compressed

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Abbreviations and acronyms:	
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
TRGS	Technical Rules for Hazardous Substances
STOT-RE	Specific Target Organ Toxicity-Repeated Exposure
STOT-SE	Specific Target Organ Toxicity-Single Exposure
UFI	Unique Formula Identifier
	UN - United Nations
VOC	Volatile Organic Compounds
vPvB	Very Persistent and Very Bioaccumulative
WGK	Water Hazard Class

Training advice : Ensure operators understand the hazard of oxygen enrichment.  
 Other 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:	
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

The classification complies with : ATP 12  
 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.

Safety Data Sheet (SDS), EU AT

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

**End of document**