

# SAFETY DATA SHEET

according to Regulation No. 1907/2006 of the European Parliament and of the Council, as subsequently amended

## ATGREEN inhalation oxygen

Date of issue:

02. 06. 2025

Version: 1.0

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

#### 1.1. Product identifier

**Product Name**

**ATGREEN inhalation oxygen**

**Product code**

None

**Chemical name**

Oxygen

**Chemical formula**

O<sub>2</sub>

**CAS Number**

756-13-8

**EC Number**

231-956-9

**Index Number**

008-001-00-8

**Registration Number**

Listed in Annex V of Regulation 1907/2006/EC (REACH), not subject to registration.

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

**Identified uses**

Inhaled oxygen.

**Uses advised against**

Not known. It is recommended to use it only for the intended use. Other uses may expose users to unpredictable risks.

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

**Donnerstag trade s.r.o.**

Nademlejská 600/1

19800 Praha

Czech Republic

telephone: +420 727 898 513

e-mail address for a competent person responsible for the SDS: [obchod@atgreen.cz](mailto:obchod@atgreen.cz)

#### 1.4. Emergency telephone number

112 (General emergency phone).

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### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

The substance is **classified as hazardous** according to regulation 1272/2008/EC.

##### **Classification according to 1272/2008/EC**

**Ox. Gas. 1; H270**

**Press. Gas (Comp.); H280**

Full text of classifications and H-phrases: see section 16.

##### **The most important adverse physical, human health and environmental effects**

May cause or intensify fire; oxidiser. Contains gas under pressure; may explode if heated.

#### 2.2. Label elements

##### **Hazard pictograms**



##### **Signal word**

Danger

##### **Identification number**

008-001-00-8

##### **Hazard statements**

H270 May cause or intensify fire; oxidiser.

H280 Contains gas under pressure; may explode if heated.

##### **Precautionary statements**

P220 Keep away from clothing and other combustible materials.

P244 Keep valves and fittings free from oil and grease.

P370+P376 In case of fire: Stop leak if safe to do so.

P403 Store in a well-ventilated place.

P410 Protect from sunlight.

P501 Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

##### **Supplemental hazard information**

Mandatory additional information is not required according to CLP regulation.

#### 2.3. Other hazards

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The substance does not meet the criteria for persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) in accordance with Annex XIII of REACH regulation. The substance is not mentioned on the Candidate list for possible inclusion in Annex XIV of REACH at the date of the revision of the safety data sheet (established in accordance with Article 59(1) of REACH regulation. The substance was not identified as endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

##### 3.1.1. Identity of the main constituent

Identification of substance		Content wt. %	Classification according to 1272/2008/EC
<b>Oxygen</b>			
CAS Number	7782-44-7		
EC Number	231-956-9		
Index Number	008-001-00-8	≤ 100	Ox. Gas. 1; H270
Registration Number	listed in Annex V of Regulation 1907/2006/EC (REACH), not subject to registration.		Press. Gas (Comp.); H280

Full text of classifications and H-phrases: see section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### Inhalation

The product is intended for inhalation.

##### Skin contact

No harmful effects are expected from this product.

##### Eye contact

No harmful effects are 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

Breathing 75 percent or more oxygen at atmospheric pressure for more than a few hours may cause nasal stuffiness, cough, sore throat, nausea, chest pain, and breathing difficulty.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically and supportively.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media

Water. Dry powder. Foam. Carbon dioxide.

##### Unsuitable extinguishing media

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Solid streams of water may be ineffective.

### 5.2. Special hazards arising from the substance or mixture

Oxidizing agent.

In case of fire extinguishing prevent leakage of water and rest of product into drains. Collect them separately and dispose of safely in accordance with current legislation and applicable local regulations.

### 5.3. Advice for firefighters

Heating may cause containers to explode.

In case of fire: Stop leak if safe to do so. Cool continuously with water from a protected location until container has cooled. Use extinguishing media to extinguish fire. Remove sources of ignition or allow to burn out.

## SECTION 6: Accidental release measures

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

Stop leak if safe to do so. Prevent gas from entering sewers, basements and places where it is dangerous to accumulate oxygen. Provide adequate ventilation. Notify relevant emergency services.

### 6.2. Environmental precautions

Prevent further leakage or spillage if doing so involves no risk. Keep unauthorized persons away from the area of leakage.

### 6.3. Methods and material for containment and cleaning up

Ensure adequate ventilation.

Do not force open containers.

### 6.4. Reference to other sections

Refer also to the provisions of sections 7, 8 and 13 of this safety data sheet.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Protect cylinders from physical damage; do not drag, roll, slide or drop. While moving cylinder, always keep in place removable valve cover. Never attempt to lift a cylinder by its cap; the cap is intended solely to protect the valve. High temperatures may damage the container and could cause the pressure relief device to fail prematurely, venting the container contents.

### 7.2. Conditions for safe storage, including any incompatibilities

Store in original, tightly closed containers, in a dry, cool and well-ventilated place at room temperature. Do not store together with incompatible materials (see subsection 10.5), food, drink and feed.

### 7.3. Specific end use(s)

See subsection 1.2.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1. Exposure limit value

Not determined.

#### 8.1.2. Biological limit values

Not determined in EU.

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### 8.1.3. DNEL and PNEC values

Not determined.

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

Avoid oxygen rich (> 23.5 %) atmospheres. Use a local exhaust system with sufficient flow velocity to maintain an adequate supply of air in the worker's breathing zone.

#### 8.2.2. Individual protection measures, such as personal protective equipment

Do not eat, drink or smoke. After work, wash thoroughly with warm water and soap and take a shower. Use protective cream. Do not soiled protective equipment to wash, do not use solvents.

##### Eye/face protection

Wear safety goggles or face shield when manufacturing and handling the product (EN 166, EN 149+A1).

##### Skin protection - hand protection

Wear protective gloves when manufacturing and handling the product (EN 374-1, EN 374-2).

The selection of the glove material on consideration of the breakthrough time, permeability, degradation and next relevant factors; other chemicals that may come into contact, physical requirements (cut and puncture protection, dexterity, thermal protection), possible body reactions to the glove material and the glove supplier's instructions and specifications. In case of repeated use of gloves, clean and keep them in a well-ventilated place before taking off.

##### Skin protection - other

Suitable protective working clothing and protective footwear.

##### Respiratory protection

Not required.

##### Thermal hazards

In normal use, it is not necessary to use protective equipment to be worn for materials that represent a thermal hazard..

#### 8.2.3. Environmental exposure controls

Uncontrolled release of the substance into environment is to be avoided. Keep the emission limits according to national legislation.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Oxygen CAS: 7782-44-7

<b>Physical state</b>	Gas (compressed).
<b>Colour</b>	Colourless.
<b>Odour</b>	Not determined.
<b>Melting point/freezing point</b>	-219 °C.
<b>Boiling point or initial boiling point and boiling range</b>	-183 °C.
<b>Flammability</b>	The substance is not classified as flammable, pyrophoric or emit flammable gases under standard conditions.

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<b>Lower explosion limit</b>	Not determined.
<b>Upper explosion limit</b>	Not determined.
<b>Flash point</b>	Does not apply to gas.
<b>Auto-ignition temperature</b>	Not determined.
<b>Decomposition temperature</b>	Not determined.
<b>pH</b>	Does not apply to gas.
<b>Kinematic viscosity</b>	Does not apply to gas.
<b>Solubility</b>	39 mg/l water (20 °C).
<b>Partition coefficient n-octanol/water (log value)</b>	Not determined.
<b>Vapour pressure</b>	Not determined.
<b>Density and/or relative density</b>	1.1 (air = 1).
<b>Relative vapour density</b>	Not determined.
<b>Particle characteristics</b>	Does not apply to gas.

### 9.2. Other information

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

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

#### Oxygen

CAS: 7782-44-7

#### Explosives

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive properties.

#### Flammable gases

Data for the substance are not available.

The substance is not classified as flammable under standard conditions.

#### Aerosols

It is not aerosol.

#### Oxidising gases

Data for the substance are not available.

The substance is classified as oxidising gas category 1.

Ci (coefficient of oxygen equivalency) = 1.0.

#### Gases under pressure

Compressed gas.

Critical temperature is -118 °C.

#### Flammable liquids

It is not liquid.

#### Flammable solids

It is not solid.

#### Self-reactive substances and mixtures

It is not liquid or solid.

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### **Pyrophoric liquids**

It is not liquid.

### **Pyrophoric solids**

It is not solid.

### **Self-heating substances and mixtures**

It is not liquid or solid.

### **Substances and mixtures, which emit flammable gases in contact with water**

It is not liquid or solid.

### **Oxidising liquids**

It is not liquid.

### **Oxidizing solids**

It is not solid.

### **Organic peroxides**

It is not liquid or solid.

### **Corrosive to metals**

It is not liquid or solid.

### **Desensitised explosives**

It is not liquid or solid.

### **9.2.2. Other safety characteristics**

<b>Mechanical sensitivity</b>	Not determined, it is not an explosive substance.
<b>Self-accelerating polymerisation temperature</b>	Not determined, it is not a polymerising substance.
<b>Formation of explosible dust/air mixtures</b>	Not determined, it is not a dust.
<b>Acid/alkaline reserve</b>	Not determined.
<b>Evaporation rate</b>	Not determined.
<b>Miscibility</b>	Not determined.
<b>Conductivity</b>	Not determined.
<b>Corrosiveness</b>	Not determined.
<b>Gas group</b>	Not determined.
<b>Redox potential</b>	Not determined.
<b>Radical formation potential</b>	Not determined.
<b>Photocatalytic properties</b>	Not determined.

## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

The mixture is stable under normal conditions of use. There aren't any hazardous reaction.

### **10.2. Chemical stability**

Stable under recommended storage conditions.



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### 10.3. Possibility of hazardous reactions

Violently oxidizes organic material.

### 10.4. Conditions to avoid

Heating may cause containers to explode.

### 10.5. Incompatible materials

Flammable materials. Reducing agents. Keep equipment free of oil and grease.

### 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

Oxygen

CAS: 7782-44-7

#### Acute toxicity

The mixture is not classified as toxic for all routes of exposure.

**Oral** Data for the substance are not available.

**Dermal** Data for the substance are not available.

**Inhalation** Data for the substance are not available.

#### Skin corrosion/irritation

Data for the substance are not available.

#### Serious eye damage/irritation

Data for the substance are not available.

#### Respiratory or skin sensitisation

Data for the substance are not available.

#### Germ cell mutagenicity

Data for the substance are not available.

#### Carcinogenicity

Data for the substance are not available.

#### Reproductive toxicity

Data for the substance are not available.

#### STOT – single exposure

Data for the substance are not available.

#### STOT – repeated exposure

Data for the substance are not available.

#### Aspiration hazard

Not applicable for gases and their mixtures.

#### Other information

See section 2 and 4.



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### 11.2. Information on other hazards

The substance does not meet the criteria for persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) in accordance with Annex XIII of REACH regulation. The substance is not mentioned on the Candidate list for possible inclusion in Annex XIV of REACH at the date of the revision of the safety data sheet (established in accordance with Article 59(1) of REACH regulation).

The substance was not identified as endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. There is no other relevant information on adverse health effects that is not required according to the classification criteria set out in CLP Regulation.

## SECTION 12: Ecological information

### 12.1. Toxicity

Oxygen	CAS: 7782-44-7
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The substance is not classified as hazardous for the aquatic environment.

#### *Fish*

Data for the substance are not available.

#### *Crustaceans*

Data for the substance are not available.

#### *Algae*

Data for the substance are not available.

### 12.2. Persistence and degradability

Oxygen	CAS: 7782-44-7
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The substance occurs in nature. Not applicable for gases and their mixtures.

### 12.3. Bioaccumulative potential

Oxygen	CAS: 7782-44-7
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The substance occurs in nature.

### 12.4. Mobility in soil

Oxygen	CAS: 7782-44-7
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The substance occurs in nature.

### 12.5. Results of PBT and vPvB assessment

The substance does not meet the criteria for persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) in accordance with Annex XIII of REACH regulation. The substance is not mentioned on the Candidate list for possible inclusion in Annex XIV of REACH at the date of the revision of the safety data sheet (established in accordance with Article 59(1) of REACH regulation).

### 12.6. Endocrine disrupting properties

The substance is not mentioned on the Candidate list for possible inclusion in Annex XIV of REACH at the date of the revision of the safety data sheet (established in accordance with Article 59(1) of REACH regulation). The substance was not identified as endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

### 12.7. Other adverse effects

Data are not available.

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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### *Disposal methods of the substance or mixture and the contaminated packaging*

Dispose according to the applicable European and local regulations (eg. in a hazardous waste incinerator). Do not empty unused product into drainage systems. Do not contaminate ponds or ditches with the product or used container. Hand over the residual amounts and solutions to a licensed disposal company.

Hand over the remaining quantities to an authorized person (specialized company with authorization) or to the collection yard in the hazardous waste section according to the worker's instructions.

##### *Possible waste code*

16 05 04\* - gases in pressure containers (including halons) containing hazardous substances

##### *Physical/chemical properties that may affect waste treatment options*

Gas under pressure.

##### *Special precautions recommended for waste management*

Not known.

##### *Waste legislation*

Directive 2008/98/EC on waste and repealing certain Directives, as amended.

### SECTION 14: Transport information

#### 14.1. UN number or ID number

UN 2037.

#### 14.2. UN proper shipping name

RECEPTACLES, SMALL, CONTAINING GAS (GAS CARTRIDGES) (Oxygen).

#### 14.3. Transport hazard class(es)

2

#### 14.4. Packing group

Not given.

#### 14.5. Environmental hazards

It is not dangerous for the environment during transport.

#### 14.6. Special precautions for user

Not given.

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

Not available.

#### 14.8. Other information

##### *Labeling according to ADR*

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### Additional data for ADR/RID

Classification code	5O
Labels	2.2 + 5.1
Hazard identification code	Not given.
Tunnel restriction code	E (ADR), - (RID)
Limited quantities	1 I
Excepted quantities	Not permitted as excepted quantities.
Transport category	3.

### Additional data for IMDG

Emergency Schedules (EmS)	F-D, S-U.
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## SECTION 15: Regulatory information

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

Regulation No. 1907/2006/EC, concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals, as amended (REACH)

Regulation No. 1272/2008/EC, on Classification, Labelling and Packaging of substances and mixtures, as amended (CLP)

Regulation No. 528/2012/EC concerning making available on the market and use of biocidal products, as amended

Regulation No. 648/2004/EC on detergents, as amended

### 15.2. Chemical safety assessment

It has not been carried out for substance.

## SECTION 16: Other information

### Reason for the revision of the safety data sheet

First edition.

### Key or legend to abbreviations and acronyms

Ox. Gas. 1	Oxidising gas, cat. 1
Press. Gas (Comp.)	Compressed gas
ADR	Accord Dangereuses Route
CLP	Regulation No. 1272/2008/EC, on Classification, Labelling and Packaging of substances and mixtures
DNEL	Derived No Effect Level
ICAO/IATA	International Air Transport Association

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IMDG	International Maritime Dangerous Goods
PBT	Persistent, bioaccumulative, toxic substance
PNEC	Predicted No Effect Concentration
REACH	Regulation No. 1907/2006/EC, concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulation concerning the International Carriage of Dangerous Goods by Rail
STOT	Specific target organ toxicity
vPvB	Very persistent and very bioaccumulative substance

### **Sources of key data used to compile the Safety Data Sheet**

European legislation, manufacturer's safety data sheet, registration dossier of substances.

### **List of H- and P- phrases**

H270	May cause or intensify fire; oxidiser.
H280	Contains gas under pressure; may explode if heated.
P220	Keep away from clothing and other combustible materials.
P244	Keep valves and fittings free from oil and grease.
P370+P376	In case of fire: Stop leak if safe to do so.
P403	Store in a well-ventilated place.
P410	Protect from sunlight.
P501	Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### **Training advice**

According to SDS.

### **Other information**

Classification according to data from the manufacturer. Use only for the purposes designated by the manufacturer, will prevent health and environmental risks.

The information in this safety data sheet has been prepared according to the best available knowledge. The safety data sheet has been compiled in good faith but without guarantee. Various factors may influence properties under specific conditions. It is the responsibility of the product user to assess the accuracy of the information for their specific application. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

The safety data sheet is prepared in accordance with Regulation No. 2020/878/EC.

The safety data sheet was prepared by LACHEPRA s.r.o.