

SAFETY DATA SHEET

In accordance with the criteria of Regulation No 1907/2006 (REACH) and 830/2015

Revision :	30.12.2020
VERSION	1.0/EN.

1 SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name: Oxygen for Athletes
Chemical name: Oxygen, compressed
Formula: O₂
CAS-No: 7782-44-7
REACH-No: Substance exempt from registration

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

Identified uses: Oxygen for athletes
SU 22: Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
SU 21: Consumer uses: Private households (= general public = consumers)
Uses advised against: No specific uses advised against are identified

1.3 Details of the supplier of the safety data sheet

Mag-Be Aerozole Sp. Z o.o.
u. Rycerska 28
55-040 Kobierzyce Ślęza
Tel. +48 608-438-083
e-mail:b.matyja@mag-be.pl
www.mag-be.pl
Polend

1.4 Emergency telephone number

Nationwide emergency telephones (8:00 – 16:00): **+48 608-438-083**
PL: 112 (emergency telephone number). 998 (Fire Brigade), 999 (Medical Rescue Service),

2 SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Physical and chemical hazards:

Oxidizing Gases : H270 – Category 1
Gases under pressure : H280 – Compressed gas

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram



GHS04

Signal word: DANGER

Hazard statement(s)

H280 Contains gas under pressure; may explode if heated

H270 May cause or intensify fire; oxidiser

Precautionary statement(s)

GHS03

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Prevention:

P220 zapalnych 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

P410 Protect from sunlight.

2.3 Other hazards

Product does not contain ingredients, which meet criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation.

3 SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances:

Not applicable

3.2 Mixtures:

Substance identifier	Name of the substance	Weight fraction %	Classification in line with The Regulation (EC) No. 1272/2008		
			Signal Word Code(s)	Hazard Class and Category Code(s)	Hazard Statement Code(s)
CAS: 7782-44-7 WE (EINECS): 231-956-9 Index: 008-001-00-8	Oxygen	99,5	GHS03 GHS04 Dgr	Ox. Gas 1 Press. Gas	H270 H280

Full H phrases are specified in point 16 hereof

4 SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

First-aid measures after inhalation: Move to fresh air. Get medical advice/attention.

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. In case of eye irritation: Rinse immediately with plenty of water. Consult an ophthalmologist if irritation persists.

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

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

4.3 Indication of any immediate medical attention and special treatment needed

Physician makes a decision regarding further medical treatment after thoroughly examination of the injured. Symptomatic treatment.

5 SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Vigorously accelerates combustion. Use media appropriate for surrounding fire. Water (e.g, safety shower) is the preferred extinguishing media for clothing fires

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5.2 **Special hazards arising from the substance or mixture**
Oxidizing agent; vigorously accelerates combustion. Contact with flammable materials may cause fire or explosion

5.3 **Advice for firefighters**
High-pressure, oxidizing gas. Evacuate all personnel from the danger area. Use self-contained breathing apparatus and protective clothing. Immediately cool containers with water from maximum distance. Stop flow of gas if safe to do so, while continuing cooling water spray. Remove ignition sources if safe to do so. Remove containers from area of fire if safe to do so.

6 SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 **Personal precautions, protective equipment and emergency procedures**
Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Ensure adequate air ventilation. Eliminate ignition sources. Evacuate area. Try to stop release. Monitor concentration of released product. Wear self-contained breathing apparatus when entering area unless atmosphere is proven to be safe. Stop leak if safe to do so.

6.2 **Environmental precautions**
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.

6.3 **Methods and material for containment and cleaning up**
Ventilate the affected area.

6.4 **Reference to other sections**
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

7 SECTION 7: HANDLING AND STORAGE

7.1 **Precautions for safe handling**
Wear leather safety gloves and safety shoes when handling cylinders. 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. For other precautions in using this product, see section 16.

7.2 **Conditions for safe storage, including any incompatibilities**
Store in cool, dry, well-ventilated place. Keep away from children, food, foodstuffs, animal feed and drinking water. Protect from heat, light and direct sunlight. Do not store with incompatible materials (see subsection 10.5)

7.3 **Specific end use(s)**
No information about uses other than mentioned in subsection 1.2

8 SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1 **Control parameters**
Not established

Legal basis:

The Regulation of the Minister of Labour and Social Policy of June 12th, 2018 on maximal authorised concentrations and intensity of factors harmful to health in work environment (Dz. U. 2018 poz.1286)

The Regulation of the Minister of Health of 2 February 2011. On tests and measurements of health hazard factors in the work environment (Dz. U. No. 33, item. 166, 2011).

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The Regulation of the Minister of Health of 30 December 2004. On occupational health and safety related to occurrence of chemical agents at work (Dz. U. No. 11, pos. 86, 2005).

EH40/2005 Workplace exposure limits Containing the list of workplace exposure limits for use with the Control of Substances Hazardous to Health Regulations 2002 (as amended)

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. Mechanical (general): General exhaust ventilation may be acceptable if it can maintain an adequate supply of air.

8.2.2 Individual protection measures, such as personal protective equipment

Respiratory system: None necessary

Hands and skin: Wear working gloves when handling gas containers
The material that the gloves are made of must be impenetrable and resistant to the product's effects. The selection of material must be performed with consideration of breakthrough time, penetration speed and degradation. Moreover, the selection of proper gloves depends not only on the material, but also on other quality features and changes depending on the manufacturer. The producer should provide detailed information regarding the exact breakthrough time. This information should be followed.

Eyes: Wear safety glasses with side shields

Hygiene at work: Apply general hygiene at work rules. After work, remove contaminated clothes and wash thoroughly the whole body. Wash your hands and face during breaks. Restrain from drinking and eating or smoking at work.

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.

9 SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Gas
Colour:	Colourless
Odour	Characteristic, with a hint of mint
Smell threshold	Information unavailable
pH	Information unavailable
Melting/ clotting point	-219 °C
Initial boiling point and boiling range	-183 °C
Flash point	Not applicable for gases and gas mixtures
Critical temperature:	-118 °C
Evaporation rate	Information unavailable
Flammability (solid, gas):	Not applicable
Upper/lower flammability or explosive limits;	Information unavailable
Vapour pressure	Information unavailable
Vapour density	Information unavailable
Relative density	Information unavailable
Solubility	[water] 39 mg/l w 20 °C
Partition coefficient: n-octanol/water	Not applicable for inorganic gases

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Auto-ignition temperature	Non flammable
Decomposition temperature	Information unavailable
Viscosity	Information unavailable
Explosive properties	Not applicable.
Oxidising properties	Oxidiser

9.2 Other information

Surface tension at 20 °C:	Non applicable
Refraction index:	Non applicable
Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level	

10 SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No reactivity under recommended storage and handling conditions.

10.2 Chemical stability

The product is stable under normal conditions of handling and storage

10.3 Possibility of hazardous reactions

Violently oxidizes organic material

10.4 Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5 Incompatible materials

Keep equipment free from oil and grease. 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.

10.6 Hazardous decomposition products

Not known.

11 SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Based on available information, classification criteria are not met

Skin corrosion/irritation

Based on available information, classification criteria are not met

Serious eye damage/irritation

Based on available information, classification criteria are not met

Respiratory or skin sensitisation

Based on available information, classification criteria are not met

Germ cell mutagenicity

Based on available information, classification criteria are not met

Carcinogenicity

Based on available information, classification criteria are not met

Reproductive toxicity

Based on available information, classification criteria are not met

Specific target organ toxicity - single exposure

Based on available information, classification criteria are not met

Specific target organ toxicity - repeated exposure

Based on available information, classification criteria are not met

Aspiration hazard

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Based on available information, classification criteria are not met

12 SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity of product

No ecological damage caused by this product

12.2 Persistence and degradability

Not applicable to gases and gas mixtures.

12.3 Bioaccumulative potential

The substance occurs naturally.

12.4 Mobility in soil

Because of its high volatility, the product is unlikely to cause ground or water pollution. Partition into soil is unlikely. The mobility of the substance depends on their hydrophilic and hydrophobic properties and abiotic and biotic conditions of soil, including its structures, climatic conditions, seasons (in Poland, in a variable moderate climate) and soil organisms, mainly (bacteria, fungi, algae, invertebrates).

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

12.6 Other adverse effects

The substance is not classified as hazardous to the ozone layer. There should be considered the possibility of other harmful effects of the individual components of the mixture on the environment. (eg. the ability of disrupting endocrine, the impact of global warming potential).

13 SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Disposal methods for the mixture: do not deposit with household waste. Disposal in accordance with the local legislation. Waste code should be assigned in place of formation.

Disposal methods for used packing: reuse/recycling/liquidation of empty containers dispose in accordance with the local legislation. Containers contaminated with product residues should be treated in the same way as the product. Only containers completely emptied can be reused.

Legal basis: Directive 2008/98/EC, 94/62/EC.

14 SECTION 14: TRANSPORT INFORMATION



14.1 UN number

UN 2037

14.2 UN proper shipping name

ECEPTACLES, SMALL, CONTAINING GAS (GAS CARTRIDGES)

14.3 Transport hazard class (es)

2

Classification code: 50

Danger labels: 2.2 (5.1)

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14.4 Packing group

Not applicable

14.5 Environmental hazards

This product is not a threat to the environment

14.6 Special precautions for user

Limited Quantity: 1 L

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Inapplicable

15 SECTION 15: REGULATORY INFORMATION

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

Other legislation:

1. **1907/2006/EC** Regulation on Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC
2. **1272/2008/EC** of the Regulation of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures - amending and repealing Directive 67/548/EEC and 1999/45/EC, and Regulation (EC) No 1907/2006.
3. **2018/669/UE** Commission Regulation (EU) 2018/669 of 16 April 2018 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures. Text with EEA relevance.
4. **790/2009/EC** of 10 August 2009 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures.
5. **2008/98/EC** Directive of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives
6. **94/62/EC** Commission Directive 2013/2/EU of 7 February 2013; amending Annex I to Directive 94/62/EC of the European Parliament and of the Council on packaging and packaging waste
7. **2015/830/EU** Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
8. **2013/10/EU** Commission Directive of 19 March 2013 amending Council Directive 75/324/EEC on the approximation of the laws of the Member States relating to aerosol dispensers in order to adapt its labelling provisions to Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures Text with EEA relevance
9. European Agreement Concerning the International Carriage of Dangerous Goods by Road 2019-2021

15.2 Chemical safety assessment

The supplier has not assessed chemical safety

16 SECTION 16: OTHER INFORMATION

Other sources of information:

IUCLID Data Bank (European Commission – European Chemicals Bureau).

ESIS – European Chemical Substances Information System (European Chemicals Bureau).

Safety Data Sheet made by: **Feed Reach Consulting**. www.frc.com.pl

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The information above is based on a current available data concerning the product, but also on the experience and knowledge in this field of the producer. They are neither a quality description of the product nor a guarantee of particular features. They are to be treated as aid to safety in transport, storage and usage of the product. That does not free the user from the responsibility of improper usage of the information above and also of improper compliance with the law norms in the field.

The card has been developed on the basis of an ingredient safety data sheet, literature data, online databases (e.g. ECHA, TOXNET, COSING) and the knowledge and experience I have

H (hazard) phrases specified in point 2 and 3 hereof:

H270	May cause or intensify fire; oxidiser
Oxidizing Gases	Hazard Category 1
H280	Contains gas under pressure; may explode if heated
[Press. Gas (Comp.)]	Compressed gas

Explanation of returns

PBT	Persistent, Bioaccumulative and Toxic substance
vPvB	Very Persistent and Very Bioaccumulative
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road

Trainings

Before commencing working with the product, the user should learn the Health & Safety regulations, regarding handling chemicals, and in particular, undergo a proper workplace training. Drivers should be trained and obtain proper certification in accordance with the requirements of ADR