

Section 1 Identification of the substance / mixture and company / undertaking

1.1 Product Identifier

Product name: ClearO2 – 2 litre, 9 litre, 10 litre and 15 litre pure breathing oxygen
CAS number: 7782-44-7
EC number: 231-956-9
Molecular formula: O₂

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

Portable aluminium oxygen filled cans for recreational / personal use. Stored in low-pressure aluminium aerosol cans under 15 bar.
Application is by spray atomisation from a handheld aerosol pack.
Uses advised against – N/A

1.3 Details of the supplier of the material safety data sheet

Manufacturers name: Pushback Ltd
Address: Unit 7 Building 11
Stanmore Business Park
Bridgnorth WV15 5HP
United Kingdom
Telephone: +44 (0)345 544 0212
Website: www.pushback.biz
Email: info@pushback.biz

SDS supplier: SHAW (Safety, Health & Wellbeing) Group UK Ltd
Address: North Mersey Business Centre
Woodward Rd, Kirkby
Liverpool L33 7UY
United Kingdom
Telephone: +44 (0)151 345 5445
Website: www.shawgroupuk.com
Email: info@shawgroupuk.com

1.4 Emergency telephone number

CHEMWATCH: +44 20 3901 3542

Section 2 Hazard Identification

2.1 Classification of the substance or mixture

Aerosols Category 3 - H229
Oxidizing Gases Category 1 - H270

2.2 Label elements

Pictograms:



Signal word: Danger

Hazard statements:	H229 - Pressurised container: May burst if heated H270 - May cause or intensify fire; oxidiser H280 - Contains gas under pressure; may explode if heated.
Precautionary statements - Prevention:	P103 - Read label before use P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking P211 - Do not spray on open flame or ignition source P220 - Keep away from clothing and other combustible materials P244 - Keep valves and fittings free from oil and grease P251 - Do not pierce or burn, even after use
Response:	P370+P376 - In case of fire: Stop leak if safe to do so
Storage:	P403 - Store in a well-ventilated place P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F
Disposal:	N/A
Other hazards:	None of the trace impurities in this product contribute significantly to the hazards associated with the product. All hazard information pertinent to this product has been provided in the Safety Data Sheet.

Section 3 Composition / information on ingredients

3.1 Substances

Name	CAS	EC	Index	REACH Reg no.	% weight	Classification for (CLP)1272/2008
Oxygen	7782-44-7	231-956-9	008-001-00-8	Not available	>99.5	Oxidizing Gases Category 1, Gases Under Pressure (Compressed Gas); H270, H280, EUH044
Air (compressed)	132259-10-0	630-461-9	Not available	Not available	<0.5	Gases Under Pressure (Compressed Gas); H280, EUH044

Section 4 First-aid measures

4.1 Description of first aid measures

Eye:	First aid is not expected to be necessary if the material is used under ordinary conditions and as recommended.
Skin:	First aid is not expected to be necessary if the material is used under ordinary conditions and as recommended.
Inhalation:	First aid is not expected to be necessary if the material is used under ordinary conditions and as recommended.
Ingestion:	First aid is not expected to be necessary if the material is used under ordinary conditions and as recommended.

4.2 Most important symptoms and effects, both acute and delayed

Refer to Section 11 - Toxicological Information

4.3 Indication of any immediate medical attention and special treatment needed

Treatment should be based on any observed signs and symptoms.
 Consider the possibility that overexposure to materials other than ClearO2 – 2 litre, 9 litre, 10 litre and 15 litre pure breathing oxygen may have occurred.

4.4 Additional information

Those who experience an adverse effect after using the product should seek fresh air. If symptoms persist seek medical attention.

Section 5 Firefighting measures

5.1 Extinguishing media

Use extinguishing media appropriate for the surrounding fire. In case of fire, keep cylinders cool by spraying with water

Small fires: Use flooding quantities of water.
 DO NOT use dry chemical, CO₂, foam or halogenated-type extinguishers.

Large fires: Flood fire area with water from a protected position.

5.2 Special hazards arising from the substance or mixture

Fire Hazard: Not flammable. This product increases the risk of fire and may accelerate combustion. Contact with combustible material may cause fire.

Explosion Hazard: Heating may cause an explosion. Heat may build pressure, rupturing closed containers, spreading fire and increasing the risk of burns and injuries. Cylinders involved in a fire may explode even if the fire has been extinguished.

Reactivity: May cause or intensify fire; oxidizer.

5.3 Advice for fire fighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Eliminate all ignition sources if safe to do so. Use water spray or fog for cooling any exposed ClearO₂ containers. Evacuate area and fight fire remotely due to the potential risk of explosion.

Protection During Firefighting: Do not enter fire area without the correct protective equipment including respiratory protection.

Section 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedure

Keep away from heat, sparks, open flames and hot surfaces – No smoking. Avoid contact with the skin and the eyes.

6.2 Environmental precautions

Avoid unnecessary release into environment.

6.3 Methods and material for containment and cleaning up

Wear appropriate personal protective equipment (PPE). Clean up spills immediately and dispose of waste safely. Isolate area until any leaking gas has dispersed.

6.4 Reference to other sections

See Section 8, Exposure Controls and Personal Protection. For further information refer to Section 13.

Section 7 Handling and storage

7.1 Precautions for safe handling

Concentrated oxygen turns most materials, including metals, into a fuel.
 Do not cut, weld, puncture or incinerate can.

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In accordance with REACH Regulation EC No.1907/2006

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**7.2 Conditions for safe storage, including any incompatibilities**

Cans should be stored upright and kept at temperatures below 52°C / 125°F. Keep away from heat, sparks, open flames, hot surfaces. – No smoking. Store tightly closed in a dry, cool and well-ventilated place.

7.3 Specific end use(s)

Recreational / personal use

Section 8 Exposure controls/personal protection**8.1 Control parameters**

Workplace exposure limits: For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency

8.2 Exposure Controls

Engineering controls: Good general ventilation should be used.

Eye / Face protection: None if the material is used under ordinary conditions and as recommended.

Skin protection: None if the material is used under ordinary conditions and as recommended.

Hands / Foot protection: None if the material is used under ordinary conditions and as recommended.

Body: None if the material is used under ordinary conditions and as recommended.

Other: None identified

Section 9 Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Appearance	Colourless	Nanoform Solubility	Not Available
Physical state	Gas	Relative density (Water = 1)	1.105 Water=1
Odour	No Odour	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	-218.4	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	-183	Molecular weight (g/mol)	Not Available
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Oxidizing gas
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	2L- 260psig 6L-150psig	Gas group	16
Solubility in water	Not Available	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	1.105 Air=1	VOC g/L	Not Available
Particle Size	Not Available	Nanoform Particle Characteristics	Not Available

9.2 Other information
Not Available

Section 10 Stability and reactivity
10.1 Reactivity
No dangerous reaction known under conditions of normal use.
10.2 Chemical stability
Stable under normal temperatures and pressures.
10.3 Possibility of hazardous reactions
Hazardous polymerisation will not occur.
10.4 Conditions to avoid
Heat, open flame, and other sources of ignition. Pressurised container: may burst if heated.
10.5 Incompatible materials
Strong oxidizers. Reducing agents. Combustible materials. Oils. Grease. Hydrocarbons.
10.6 Hazardous decomposition products
Non known

Section 11 Toxicological information								
11.1 Information on toxicological effects								
Oxygen (Compressed) 7782-44-7								
Test Type	Dosage	Route	Species	Duration	Results	Test Class	Target Organs	Comments
Reproductive	= 10 pph	Inhalation	Rat	9 Hour(s)	TCLo	NDA	NDA	NDA
Acute Toxicity:				EU/CLP • Classification criteria not met				
Acute Toxicity Oral:				EU/CLP • Classification criteria not met				
Acute Toxicity Dermal:				EU/CLP • Classification criteria not met				
Acute Toxicity Inhalation:				EU/CLP • Classification criteria not met				
Skin corrosion/irritation:				EU/CLP • Classification criteria not met				
Serious eye damage/irritation:				EU/CLP • Classification criteria not met				
Respiratory or skin sensitisation:				EU/CLP • Classification criteria not met				
Germ cell mutagenicity:				EU/CLP • Classification criteria not met				
Carcinogenicity:				EU/CLP • Classification criteria not met				
Reproductive toxicity:				EU/CLP • Classification criteria not met				
STOT-single exposure:				EU/CLP • Classification criteria not met				
STOT-repeated exposure:				EU/CLP • Classification criteria not met				
Aspiration hazard:				EU/CLP • Classification criteria not met				
Information about hazardous ingredients in the mixture:				EU/CLP • Classification criteria not met				

Refer to Sections 2 and 3 for additional information

Section 12 Ecological information

12.1 Toxicity

Oxygen occurs naturally in the atmosphere. The gas will be dissipated rapidly in ventilated areas.

12.2 Persistence and degradability

Not Available

12.3 Bioaccumulative potential:

Not Available

12.4 Mobility in soil

Not Available

12.5 Results of PBT and vPvB assessment

PBT and vPvB assessment has not been conducted for this material.

12.6 Other adverse effects

Not Available

Section 13 Disposal considerations

13.1 Waste treatment methods

Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 Transport information

14.1 UN number

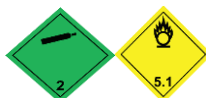
UN 1950

14.2 UN Proper Shipping Name

AEROSOLS (contains oxygen)

14.3 Transport hazard class(es)

Class: 2.2
 Sub Risk: 5.1



14.4 Packing Group

Not applicable

14.5 Environmental hazards

Not applicable

14.6 Special precautions for user

Hazard identifier (Kemler)	Not Applicable
Classification code	50
Hazard Label	2.2 + 5.1
Special provisions	190 327 344 625
Limited quantity	1 L
Tunnel Restriction Code	3 (E)

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Land and inland navigation transport ADR/RID tunnel restriction code D Classification code 5F
 UN/ID-Number: 1950; Including 1000ml (max. 30kg/package) ADR/RID: Class 2, Code: 50 2.2,
 Aerosols.

The Ltd Qty provision for ADR is 1L

By Road NO Transport Document or DGN is required and the package, which must not exceed 30kgs
 Gross assembled weight is 30kgs or 20kgs for a shrink-wrap tray. The package MUST display the LTD
 QTY Mark.

Marine transport IMDG UN 1950 Aerosols (max1L) IMDG class 2.2, Code- see SP63, EmS: F-D, S-U;
 packaging instructions: P003 - LP02; packaging order: PP17-PP87-L2: DGN is required for any
 shipment by ferry. The DGN must state UN1950, Aerosols, 2.2 LTD QTY and declare the number and
 description of packages (boxes/shrink-wrap trays) the weight of aerosols and the gross package
 weight plus that of any other goods or pallets

Air transport ICAO/IATA-DGR UN/ID-Nummer: 1950, Aerosols, Class 2.2, ICAO/IATA: Class 2.2, 5.1
 Passenger/Cargo: 203

Section 15 Regulatory information

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

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. REACH -
 Restrictions on the manufacture, placing on the market and use of certain dangerous substances,
 preparations and articles (Annex XVII). Directives 98/24/EC, - 92/85/EEC, - 94/33/EC, -
 2008/98/EC, - 2010/75/EU; Commission Regulation (EU) 2020/878; Regulation (EC) No
 1272/2008 as updated through ATPs.

Oxygen is found on the following regulatory lists:

Europe EC Inventory	European Union - European Inventory of Existing Commercial Chemical Substances (EINECS)
	European Union (EU) Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures - Annex VI

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

Section 16 Other information

Full text of H-Statements referred to under sections 2 and 3

Abbreviation	Meaning
H229	Pressurised container: May burst if heated.
H270	May cause or intensify fire; oxidiser.
H280	Contains gas under pressure; may explode if heated.

Version No.	First issue date	Review date
1	26/02/2024	25/02/2025

SAFETY DATA SHEET (SDS)

In accordance with REACH Regulation EC No.1907/2006

Clear O2 – SDS/0224-1



Further information

The information contained within this SDS is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. It is based on the information provided for the product and is applicable to it with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

All hazardous substances may pose unknown hazards and they should always be handled and used with caution. This SDS applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose additional hazards not mentioned in this SDS. SHAW (Safety, Health and Wellbeing) Group UK Ltd assumes no responsibility for incidental or consequential damages, including lost profits, arising from the use of this SDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use.