

SAFETY DATA SHEET

(According to EU 2015/830)

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

1.1 Product Identifier

Product Name: EVOLVE

Additional Identification

Chemical name: Oxygen, dioxygen

Chemical formula: O₂

CAS No. 7782-44-7

EC No. 231-956-9

REACH Registration No. Listed in Annex IV/V of EC Regulation 1907/2006, exempt from registration

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

Identified Uses: Breathing oxygen for occasional use

Uses Advised Against: Not to be used on flames or ignition sources.

1.3 Details of the supplier of the safety data sheet

SIMPLY BREATHE LTD, Unit 4, Beverley Business Centre, St. Nicholas Road, Beverley, HU17 0NZ

1.4 Emergency telephone number

+44 7817163751 (joe@simplybreathe.co.uk)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (EC No. 1272/2008)

Physical hazards

Oxidising gas under pressure.

H229. The container exposed to temperatures exceeding 50 °C (122 °F) may become deformed and burst.

H270. May cause or intensify fire; oxidiser.

R8. Contact with combustible material may cause fire.



Health hazards

Not Classified

Environmental hazards

Not Classified

2.2 Label Elements

Signal Word: Danger

Hazard Statements: **H229.** Pressurised container: may burst if heated. **H270.** May cause or intensify fire; oxidiser.

Precautionary Statements:

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P251 Do not pierce or burn, even after use.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

2.3 Other hazards

None. The product does not contain any substances classified as PBT or vPvB.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

SUBSTANCE	STATE	CAS No	EC No	FLAMMABLE	GWP	REACH Reg. No.
Oxygen (>98 %vol)	Gas	7782-44-7	231-956-9	No	0	Exempt

Classification under CLP: No classification (67/548/EEC; 1999/45/EC)

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

- Inhalation: This is the intended use of the product although continuous inhalation of high concentrations for a prolonged period cannot be recommended and is an unlikely situation with this product.

- Ingestion: Not considered to be a likely route of exposure
- Skin Contact: No adverse effects can be expected
- Eye Contact: No adverse effects are expected

4.2 Most important symptoms and effects, both acute and delayed

Prolonged and continuous inhalation may cause nausea, dizziness, respiratory difficulties and convulsion

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. Carbon dioxide. Dry chemical powder. Foam.

Extinguishing media which must not be used for safety reasons: None.

5.2 Special hazards arising from the substance or mixture

Containers can burst violently when heated owing to the accumulation of excessive pressure. Gas supports combustion.

5.3 Advice for firefighters

Move containers from fire area if without risk. Aerosol containers exposed to fire should be cooled by spraying with cold water.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Remove combustible material if safe to do so.

6.2 Environmental precautions

Do not discharge the can contents into drains or rivers.

6.3 Methods and materials for containment and cleaning up

Transfer can contents, if released, to a suitable container for disposal.

6.4. Reference to other sections

For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Keep out of the reach of children. Avoid exposing aerosol containers to high temperatures or direct sunlight. Avoid contact with combustible materials or sources of ignition. Do not pierce or burn,

even after use. Avoid prolonged contact with the skin which may result in cold burns.

7.2. Conditions for safe storage, including any incompatibilities

Store in a cool, well ventilated area. Keep out of the reach of children. Protect containers from damage. Keep the containers in a secure position to avoid rupture. Keep container in a cool, well-ventilated area. Protect from sunlight. Do not store near heat sources or expose to high temperatures. Do not expose to temperatures exceeding 50 °C/122 °F. Avoid contact with combustible materials. Segregate from flammable gases and other flammable materials during storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

No assigned exposure limits.

8.2 Exposure controls

Do not eat, drink or smoke when using the product.

Cans should be disposed after use according to the regional or national regulations.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance: Colourless gas

pH: Not applicable (not in aqueous media)

Melting point/freezing point: -218 °C

Boiling point: -183 °C

Flash point: Not applicable (not ignitable)

Flammability: Not flammable

Vapour pressure: 4,053 kPa (-124.1 °C)

Relative Density at 20 °C (air = 1): 1.1

Pressure of container at 50 °C: <15 barg

Solubility in water: 40 mg/l (25 °C)

Partition coefficient (*n*-octanol/water): Unknown

Auto-ignition temperature: Not applicable (not ignitable)

Decomposition temperature: >>1000 °C

Viscosity: 0.034 mPa.s (300 K)

Explosive properties: Not explosive (EU legislation/transport regulations)

Oxidising properties: Oxidising

Molecular weight: 32.0 g/mol

9.2 Other information

None.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Oxidising gas.

10.2. Chemical stability

The product is stable at normal ambient temperatures and when used as recommended. It is stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions

Supports combustion, may react violently with strong reducing agents.

10.4. Conditions to avoid

Avoid exposing aerosol containers to high temperatures or direct sunlight; pressurised container may burst if heated.

10.5. Incompatible materials

Combustible materials. Reducing agents. Oils and greases. Flammable gases.

10.6. Hazardous decomposition products

Does not decompose when used and stored as recommended.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

This product does not elicit toxicological properties during routine handling and use. If the can is opened through misuse or damage, dispose of the contents according to regulatory requirements.

OXYGEN

There are no known toxicological effects from this substance under normal use and the substance is not subject to registration.

Acute toxicity - oral

Based on available data, the classification criteria are not met

Acute toxicity - dermal

Based on available data, the classification criteria are not met

Acute toxicity - inhalation	Based on available data, the classification criteria are not met
Skin corrosion/irritation animal data	Based on available data, the classification criteria are not met
Serious eye damage/irritation	Based on available data, the classification criteria are not met
Respiratory or skin sensitisation	Based on available data, the classification criteria are not met
Germ cell mutagenicity	Based on available data, the classification criteria are not met
Carcinogenicity	Based on available data, the classification criteria are not met
Reproductive toxicity	Based on available data, the classification criteria are not met
STOT-single exposure	Based on available data, the classification criteria are not met
STOT-repeated exposure	Based on available data, the classification criteria are not met
Aspiration hazard	Not applicable to gases

No specific target organs have been identified

SECTION 12: ECOLOGICAL INFORMATION

12.1. Ecotoxicity

No ecological damage is caused by this product.

12.2. Persistence and degradability

Not applicable to gases owing to lack of persistence.

12.3. Bioaccumulative potential

The substance is naturally occurring

12.4. Mobility in soil

Oxygen is a gas and has no applicability to mobility in soil owing to rapid vaporisation.

12.5. Results of PBT and vPvB assessment

Not classified as PBT or vPvB.

12.6. Other adverse effects

None

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Do not puncture or incinerate, even when empty. Vent to atmosphere in a well-ventilated area. Do not discharge into any place where accumulation is possible.

SECTION 14: TRANSPORT INFORMATION

The regulatory provisions allow transport of aerosols of less than 1 litre packed in cartons of less than 30kg gross to be exempt from control providing that they are labelled in accordance with the requirements of these regulations to show that they are being transported as Limited Quantities. Aerosols not so packed must show the following designations: -

RINA: M.M.M. 2-42 ADR/RID: UN 1950, Aerosol, 2, ADR (Ed. 2001), LQ2 (Cap. 3.4.6, Colonna 7) IMDG: UN No. 1950, Classe 2.2 Aerosols, Code IMDG page 2102, Ems: F-D ICAO/IATA: UN 1950

14.1 UN Number

ADG: 1950

IMDG: 1950

ICAO: 1950

14.2 UN proper shipping name

ADG: Aerosols

IMDG: Aerosols

ICAO: Aerosols

14.3 Transport hazard Class(es)

ADG: 2.2

ADG classification code: 5A,5O

ADG label: 2.2

IMDG class: 2.2

ICAO class/division: 2.2

14.4 Packing group

ADG: None

IMDG: None

ICAO: None

14.5 Environmental hazards

The product is not designated as an environmentally hazardous product or marine pollutant.

14.6 Special precautions for user

Transportation should be conducted by trained personnel within closed, upright and secure containers.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: REGULATORY INFORMATION

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

Information for this SDS has been provided in accordance with European regulation 94/1EEC, 75/324/EEC, 2001/58/EC, 67/548/EEC, 99/45/EC, 2001/59/EC and 2001/60/EC.

(H229) Pressurised container: May burst if heated. (P410) Protect from sunlight. (P412) Do not expose to temperatures exceeding 50 °C. (P251) Do not pierce or burn, even after use. (P210) Keep away from heat, sparks, open flames and other ignition sources. Keep out of reach of children (P102).

SECTION 16: OTHER INFORMATION

This product must be conserved, handled and used in accordance with safety and hygiene directives of good industrial practice and in accordance with the regulations currently in force.

To the best of our knowledge, the information contained herein is accurate. However, we cannot guarantee that this information is sufficient and correct to cover all cases and does not replace medical opinion.

(1): Following the Directive 67/548/EEC, Directive 1999/45/EC and further updated.

In accordance with: Regulation (EU) No: 842/2006, Regulation (EU) No: 1907/2006, Regulation (EU) No: 1272/2008, Regulation (EU) No: 517/2014, Labelling Aerosols According to the Aerosol Dispensers Directive 2013/10/EU.

End of safety data sheet