

## SAFETY DATA SHEET

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

**1.1. Product identifier:**

**ROKiT Oxygen**

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

Portable steel oxygen filled cans for recreational / personal use. Stored in low-pressure steel aerosol cans under 15 bar.  
Application is by spray atomisation from a handheld aerosol pack.  
For consumer use.

**1.3. Details of the supplier of the safety data sheet:**

Information about the manufacturer:

**ROKiT Oxygen Ltd.**

ROKiT House,  
Kingswood Business Park,  
Albrighton.  
WV7 3AU  
United Kingdom  
Tel: +44 1902 374896

**1.3.1. Responsible person:**

-

E-mail:

[sales@rokitoxygen.com](mailto:sales@rokitoxygen.com)

**1.4. Emergency telephone number:**

**National Poisons Information Service (NPIS)**

NHS 111 (England), NHS 24 (Scotland) or NHS Direct (Wales) – dial 111  
In Northern Ireland contact your local GP  
Healthcare Professionals: UK NPIS 0344 892 0111

### SECTION 2: HAZARDS IDENTIFICATION

**2.1. Classification of the substance or mixture:**

Classification according to Regulation (EC) No 1272/2008 (CLP):  
Aerosols, Hazard Category 3 – H229  
Oxidising Gases, Hazard Category 1 – H270

**Hazard statements:**

**H229** – Pressurised container: May burst if heated.

**H270** – May cause or intensify fire; oxidiser.

**2.2. Label elements:**



**Hazard statements:**

**H229** – Pressurised container: May burst if heated.

**H270** – May cause or intensify fire; oxidiser.

**Precautionary statements:**

- P103** – Read carefully and follow all instructions.  
**P210** – Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
**P211** – Do not spray on an open flame or other 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.  
**P370 + P376** – In case of fire: Stop leak if safe to do so.  
**P403** – Store in a well-ventilated place.  
**P410 + P412** – Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.  
**P501** – Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

**2.3. 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.

Results of PBT and vPvB assessment: Based on available data, the product does not contain any PBT or vPvB substances.

Endocrine disrupting property: Based on available data, does not contain endocrine disruptors.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

**3.1. Substances:**

Not applicable.

**3.2. Mixtures:**

| Description                                     | CAS number  | EC number / ECHA list number | REACH registration number | Conc. (%) | Classification according to Regulation (EC) No 1272/2008 (CLP) |                                   |                          |
|-------------------------------------------------|-------------|------------------------------|---------------------------|-----------|----------------------------------------------------------------|-----------------------------------|--------------------------|
|                                                 |             |                              |                           |           | Pictogram, signal word code(s)                                 | Hazard class and category code(s) | Hazard statement code(s) |
| <b>Oxygen*</b><br>Index number:<br>008-001-00-8 | 7782-44-7   | 231-956-9                    | -                         | >99.5     | GHS03<br>GHS04<br>Danger                                       | Ox. Gas 1<br>Press. Gas           | H270<br>H280<br>EUH044   |
| <b>Air (compressed)**</b>                       | 132259-10-0 | 630-461-9                    | -                         | <0.5      | GHS04<br>Danger                                                | Press. Gas                        | H280<br>EUH044           |

\*: Classification specified by the manufacturer that includes other classification in addition to the classification specified by Regulation (EC) No 1272/2008.

\*\*: Classification specified by the manufacturer; the substance is not listed in Annex VI of the Regulation (EC) No 1272/2008.

For the full text of hazard statements, see Section 16.

## SECTION 4: FIRST AID MEASURES

**4.1. Description of first aid measures:**

**INGESTION:**

Measures:

- First aid is not expected to be necessary if the material is used under ordinary conditions and as recommended.

**INHALATION:**

Measures:

- First aid is not expected to be necessary if the material is used under ordinary conditions and as recommended.

**SKIN CONTACT:**

Measures:

- First aid is not expected to be necessary if the material is used under ordinary conditions and as recommended.

**EYE CONTACT:**

Measures:

- 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:**

The most important acute and delayed symptoms and effects are contained in Section 11.

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

Treatment should be based on any observed signs and symptoms.

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:**

**5.1.1. Suitable extinguishing media:**

Choose extinguishing media depending on surrounding fire.

Small fires: Use flooding quantities of water.

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

**5.1.2. Unsuitable extinguishing media:**

Do not use dry chemical, CO<sub>2</sub>, foam or halogenated-type extinguishers.

**5.2. Special hazards arising from the substance or mixture:**

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

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.

**5.3. Advice for firefighters:**

Wear full protective clothing and self-contained breathing apparatus.

Keep cylinders cool by spraying with water.

Exercise caution when fighting any chemical fire.

Eliminate all ignition sources if safe to do so.

Use water spray or fog for cooling any exposed containers.

Evacuate area and fight fire remotely due to the potential risk of explosion.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**6.1. Personal precautions, protective equipment and emergency procedures:**

**6.1.1. For non-emergency personnel:**

Allow only well-trained experts wearing suitable protective clothing to abide in the field of accident.

**6.1.2. For emergency responders:**

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).

Isolate area until any leaking gas has dispersed.

**6.4. Reference to other sections:**

For further and detailed information see Sections 8 and 13.

## SECTION 7: HANDLING AND STORAGE

**7.1. Precautions for safe handling:**

Observe conventional hygiene precautions.

**Technical measures:**

Do not spray on an open flame or other ignition source.

Keep away from clothing and other combustible materials.

Keep valves and fittings free from oil and grease.

Do not pierce or burn, even after use.

**Precautions against fire and explosion:**

Concentrated oxygen turns most materials, including metals, into a fuel.

Do not cut, weld, puncture or incinerate can.

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

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

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

**Technical measures and storage condition:**

Cans should be stored upright and kept at temperatures below 50°C / 122°F.

Keep away from heat, sparks, open flames, hot surfaces. – No smoking.

Store tightly closed in a dry, cool and well-ventilated place.

**Incompatible materials:** See Section 10.5.

**Packaging material:** No special prescriptions.

**7.3. Specific end use(s):**

Recreational/personal use.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1. Control parameters:**

**Occupational exposure limit values** (EH40/2005 Workplace Exposure Limits) :

The components of the mixture are not regulated with exposure limit value.

| DNEL values |          | Oral exposure      |                     | Dermal exposure    |                     | Inhalative exposure |                     |
|-------------|----------|--------------------|---------------------|--------------------|---------------------|---------------------|---------------------|
|             |          | Short term (acute) | Long term (chronic) | Short term (acute) | Long term (chronic) | Short term (acute)  | Long term (chronic) |
| Consumer    | Local    | no data            | no data             | no data            | no data             | no data             | no data             |
|             | Systemic | no data            | no data             | no data            | no data             | no data             | no data             |
| Worker      | Local    | no data            | no data             | no data            | no data             | no data             | no data             |
|             | Systemic | no data            | no data             | no data            | no data             | no data             | no data             |

| PNEC values                  |         |          |
|------------------------------|---------|----------|
| Compartment                  | Value   | Note(s)  |
| Freshwater                   | no data | no notes |
| Marine water                 | no data | no notes |
| Freshwater sediment          | no data | no notes |
| Marine water sediment        | no data | no notes |
| Sewage Treatment Plant (STP) | no data | no notes |
| Intermittent release         | no data | no notes |
| Secondary poisoning          | no data | no notes |
| Soil                         | no data | no notes |

**8.2. Exposure controls:**

In case of a hazardous material with no controlled concentration limit it is the employer's duty to keep concentration levels down to a minimum achievable by existing scientific and technological means, where the hazardous substance poses no harm to workers.

**8.2.1. Appropriate engineering controls:**

In pursuance of work is proper foresight needed to avoid leaking onto clothes and floors and to avoid contact with eyes and skin. Ensure adequate ventilation (good general ventilation).

**8.2.2. Individual protection measures, such as personal protective equipment:**

- Eye/face protection:** Not needed if the product is used under ordinary conditions and as recommended.
- Skin protection:**
  - Hand protection:** Not needed if the product is used under ordinary conditions and as recommended.
  - Other:** Not needed if the product is used under ordinary conditions and as recommended.
- Respiratory protection:** Not needed if the product is used under ordinary conditions and as recommended.
- Thermal hazards:** No thermal hazards known.

**8.2.3. Environmental exposure controls:**

No specific prescription.

The requirements detailed in Section 8 assume skilled work under normal conditions and usage of the product for appropriate aims. If conditions differ from normal or work is carried out under extreme conditions, an expert's advice is necessary before deciding upon further protective measures.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

| Parameter                                                   | Value / Test method / Remarks |
|-------------------------------------------------------------|-------------------------------|
| 1. Physical state                                           | gas                           |
| 2. Colour                                                   | colourless                    |
| 3. Odour, odour threshold                                   | odourless                     |
| 4. Melting point/freezing point                             | -218.4 °C                     |
| 5. Boiling point or initial boiling point and boiling range | -183 °C                       |
| 6. Flammability                                             | no data*                      |
| 7. Lower and upper explosion limit                          | no data*                      |
| 8. Flash point                                              | no data*                      |
| 9. Auto-ignition temperature                                | no data*                      |
| 10. Decomposition temperature                               | no data*                      |
| 11. pH                                                      | no data*                      |
| 12. Kinematic viscosity                                     | no data*                      |
| 13. Solubility in water                                     | no data*                      |
| in other solvents                                           | no data*                      |
| 14. Partition coefficient n-octanol/water (log value)       | no data*                      |
| 15. Vapour pressure                                         | 2L- 260 psig<br>6L- 150 psig  |
| 16. Density and/or relative density                         | 1.105 (air = 1)               |
| 17. Relative vapour density                                 | 1.105 (air = 1)               |
| 18. Particle characteristics                                | no data*                      |

### 9.2. Other information:

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

Oxidising properties: oxidising gas.

#### 9.2.2. Other safety characteristics:

Gas group: 16

\*: The manufacturer did not carry out any tests on this parameter for the product or the results of the tests are not available at the time of publication of the data sheet, or the property is not applicable for the product.

## 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 is not expected.

### 10.4. Conditions to avoid:

Heat, open flame, and other sources of ignition.

Pressurised container: may burst if heated.

### 10.5. Incompatible materials:

Strong oxidisers, reducing agents, combustible, oils, grease, hydrocarbons.

### 10.6. Hazardous decomposition products:

No hazardous decomposition products known.

## SECTION 11: TOXICOLOGICAL INFORMATION

- 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008:**  
**Acute toxicity:** Based on available data, the classification criteria are not met.  
**Skin corrosion/irritation:** 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:** Based on available data, the classification criteria are not met.
- 11.1.1. Summaries of the information derived from the test conducted:**  
No data available.
- 11.1.2. Relevant toxicological properties:**  
Information about the components:  
**Oxygen** (CAS: 7782-44-7):  
Reproductive toxicity:  
TCLo: 10 ppm, inhalation, rat, 9 hours)
- 11.1.3. Information on likely routes of exposure:**  
Ingestion, inhalation, skin contact, eye contact.
- 11.1.4. Symptoms related to the physical, chemical and toxicological characteristics:**  
No data available.
- 11.1.5. Delayed and immediate effects as well as chronic effects from short and long-term exposure:**  
No data available.
- 11.1.6. Interactive effects:**  
No data available.
- 11.1.7. Absence of specific data:**  
No information.
- 11.2. Information on other hazards:**  
**Endocrine disrupting properties:**  
Endocrine disrupting property: Based on available data, does not contain endocrine disruptors.  
**Other information:**  
No data available.

## SECTION 12: ECOLOGICAL INFORMATION

- 12.1. Toxicity:**  
The mixture is not classified as hazardous for the environment.
- 12.2. Persistence and degradability:**  
No data available.
- 12.3. Bioaccumulative potential:**  
No data available.
- 12.4. Mobility in soil:**  
No data available.
- 12.5. Results of PBT and vPvB assessment:**  
Based on available data, the product does not contain any PBT or vPvB substances.
- 12.6. Endocrine disrupting properties:**  
Endocrine disrupting property: Based on available data, does not contain endocrine disruptors.
- 12.7. Other adverse effects:**  
Oxygen occurs naturally in the atmosphere. The gas will be dissipated rapidly in ventilated areas.

## SECTION 13: DISPOSAL CONSIDERATIONS

- 13.1. Waste treatment methods:**  
Disposal according to the local regulations.
- 13.1.1. Information regarding the disposal of the product:**  
Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

**List of Waste Code:**

No waste disposal key according to the List of Waste Code (LoW code) can be determined for this product, as only the purpose of application defined by the user enables an allocation. The LoW code number has to be determined after a discussion with a waste disposal specialist.

**13.1.2. Information regarding the disposal of the packaging:**

Dispose of in accordance with applicable regulations.

**13.1.3. Physical/chemical properties that may affect waste treatment options shall be specified:**

No data available.

**13.1.4. Sewage disposal:**

No data available.

**13.1.5. Special precautions for any recommended waste treatment:**

No data available.

## SECTION 14: TRANSPORT INFORMATION

**14.1. UN number or ID number:**

UN 1950

**14.2. UN proper shipping name:**

AEROSOLS (Oxygen)

**14.3. Transport hazard class(es):**

2.2

Label: 2 + 5.1



**14.4. Packing group:**

No packing group.

**14.5. Environmental hazards:**

Not applicable.

**14.6. Special precautions for user:**

ADR: Tunnel restriction code: E  
Classification code: 5O  
Special provisions: 190, 327, 344, 625  
Limited quantity: 1 L

**14.7. Maritime transport in bulk according to IMO instruments:**

No data available.

## SECTION 15: REGULATORY INFORMATION

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

**REGULATION (EC) No 1907/2006** OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive (EC) No 1999/45 and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive (EEC) No 76/769 and Commission Directives (EEC) No 91/155, (EEC) No 93/67, (EC) No 93/105 and (EC) No 2000/21

**REGULATION (EC) No 1272/2008** OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives (EEC) No 67/548 and (EC) No 1999/45, and amending Regulation (EC) No 1907/2006

**COMMISSION REGULATION (EU) 2020/878** of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

**15.2. Chemical safety assessment:**

Chemical safety assessment has not been carried out.

## SECTION 16: OTHER INFORMATION

**Information regarding the revision of the safety data sheet:** No information.

**Literature references / data sources:**

Safety data sheet issued by the manufacturer (25. 02. 2025, version 1, EN).

**Methods used for the classification according to Regulation (EC) No 1272/2008:**

| Classification                            | Method                            |
|-------------------------------------------|-----------------------------------|
| Aerosols, Hazard Category 3 – H229        | Based on test methods (test data) |
| Oxidising Gases, Hazard Category 1 – H270 | Based on test methods (test data) |

**Relevant hazard statements (code and full text) of Sections 2 and 3:**

**H229** – Pressurised container: May burst if heated.

**H270** – May cause or intensify fire; oxidiser.

**H280** – Contains gas under pressure; may explode if heated.

**EUH 044** – Risk of explosion if heated under confinement.

**Training advice:** No data available.

**Full text of the abbreviations in the safety data sheet:**

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.

AOX: Adsorbable organic halides.

BCF: Bioconcentration factor.

BOD: Biological Oxygen Demand.

CAS number: Chemical Abstract Service number.

CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

CMR effects: Carcinogenic, mutagenic, reprotoxic effects.

COD: Chemical Oxygen Demand.

CSA: Chemical Safety Assessment.

CSR: Chemical Safety Report.

DNEL: Derived-No-Effect-Level.

ECHA: European Chemical Agency.

EC: European Community.

EC number: EINECS and ELINCS numbers (see also EINECS and ELINCS).

EEC: European Economic Community.

EEA: European Economic Area (EU + Iceland, Liechtenstein and Norway).

EINECS: European Inventory of Existing Commercial Chemical Substances.

ELINCS: European List of Notified Chemical Substances.

EN: European Norm.

EU: European Union.

EuPCS: European Product Categorisation System.

EWG: European Waste Catalogue (replaced by LoW – see below).

GHS: Globally Harmonized System of Classification and Labelling of Chemicals.

IATA: International Air Transport Association.

ICAO-TI: Technical Instructions for the Safe Transport of Dangerous Goods by Air.

IMDG: International Maritime Dangerous Goods.

IMO: International Maritime Organization.

IMSBC: International Maritime Solid Bulk Cargoes.

IUCLID: International Uniform Chemical Information Database.

IUPAC: International Union of Pure and Applied Chemistry.

Kow: n-Octanol - Water Partition Coefficient.

LC50: Lethal concentration resulting in 50 % mortality.

LD50: Lethal dose resulting in 50 % mortality (median lethal dose).

LoW: List of Waste.

LOEC: Lowest Observed Effect Concentration.

LOEL: Lowest Observed Effect Level.

NOEC: No Observed Effect Concentration.

NOEL: No Observed Effect Level.



NOAEC: No Observed Adverse Effect Concentration.  
NOAEL: No Observed Adverse Effect Level.  
OECD: Organization for Economic Cooperation and Development.  
OSHA: Occupational Safety and Health Administration.  
PBT: Persistent, Bioaccumulative and Toxic.  
PNEC: Predicted No Effect Concentration.  
QSAR: Quantitative Structure Activity Relationship.  
REACH: Regulation 1907/2006/EC concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.  
RID: Regulations Concerning the International Transport of Dangerous Goods by Rail.  
SCBA: Self Contained Breathing Apparatus.  
SDS: Safety Data Sheet.  
STOT: Specific Target Organ Toxicity.  
SVHC: Substances of Very High Concern.  
UN: United Nations.  
UVCB: Chemical Substances of Unknown or Variable Composition, Complex Reaction Products or of Biological Materials.  
VOC: Volatile Organic Compound.  
vPvB: very Persistent and very Bioaccumulative.

This safety data sheet had been prepared on the basis of information provided by the manufacturer/supplier and conform to the relevant regulations.

The information, data and recommendations contained herein are provided in good faith, obtained from reliable sources and believed to be true and accurate as of the date issued; however, no representation is made as to the comprehensiveness of the information.

The SDS shall be used only as a guide for handling the product; in the course of handling and using the product other considerations may arise or be required.

Users are cautioned to determine the appropriateness and applicability of the above information to their particular circumstances and purposes and assume all risk associated with the use of this product.

It is the responsibility of the user to fully comply with local, national and international regulations concerning the use of this product.

---

Safety data sheet was prepared by:  
**MSDS-Europe**  
International branch of ToxInfo Kft.

Professional help regarding  
the explanation of the safety  
data sheet:  
+36 70 335 8480; [info@msds-europe.com](mailto:info@msds-europe.com)  
[www.msds-europe.com](http://www.msds-europe.com)

