



## Safety Data Sheet

### Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

#### 1.1 Product Identifier

|                          |  |
|--------------------------|--|
| <b>Product Name</b>      | • <b>Oxygen (Compressed)</b>                   |
| <b>Synonyms</b>          | • Aviator's Breathing Oxygen (ABO); Oxygen USP |
| <b>CAS Number</b>        | • 7782-44-7                                    |
| <b>Product Code</b>      | • MSDS No: 10074                               |
| <b>EC Number</b>         | • 231-956-9                                    |
| <b>Molecular Formula</b> | • :O <sub>2</sub>                              |

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

|                                   |   |
|-----------------------------------|---|
| <b>Relevant identified use(s)</b> | • Medical, welding and general analytical or synthetic chemical uses. |
|-----------------------------------|---|

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

|                              |   |
|------------------------------|---|
| <b>Manufacturer</b>          | • Air Liquide<br>2700 Post Oak Blvd.<br>Houston, TX 77056<br>United States<br>www.us.airliquide.com<br>scs@airliquide.com |
| <b>Telephone (Technical)</b> | • 713-896-2896  |
| <b>Telephone (Technical)</b> | • 800-819-1704  |

#### 1.4 Emergency telephone number

|                     |   |
|---------------------|---|
| <b>Manufacturer</b> | • 800-424-9300 - CHEMTREC                 |
| <b>Manufacturer</b> | • +1 703-627-3887 - Outside United States |

### Section 2: Hazards Identification

#### EU/EEC

According to EU Directive 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010]

According to EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

#### 2.1 Classification of the substance or mixture

|                |   |
|----------------|---|
| <b>CLP</b>     | • Oxidizing Gases 1 - H270<br>Compressed Gas - H280 |
| <b>DSD/DPD</b> | • Oxidizing (O)<br>R8                               |

#### 2.2 Label Elements

|            |               |
|------------|---------------|
| <b>CLP</b> | <b>DANGER</b> |
|------------|---------------|



- Hazard statements**
- H270 - May cause or intensify fire; oxidizer
  - H280 - Contains gas under pressure; may explode if heated

### Precautionary statements

- Prevention**
- P220 - Keep/Store away from clothing and other combustible materials.
  - P244 - Keep reduction valves free from grease and oil.
- Response**
- P370+P376 - In case of fire: Stop leak if safe to do so.
- Storage/Disposal**
- P403 - Store in a well-ventilated place.

### DSD/DPD



- Risk phrases**
- R8 - Contact with combustible material may cause fire.

## 2.3 Other Hazards

- CLP**
- According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.

- DSD/DPD**
- This product is considered dangerous according to the European Directive 67/548/EEC.

## United States (US)

According to OSHA 29 CFR 1910.1200 HCS

### 2.1 Classification of the substance or mixture

- OSHA HCS 2012**
- Oxidizing Gases 1 - H270
  - Compressed Gas - H280

### 2.2 Label elements

**OSHA HCS 2012**

#### DANGER



- Hazard statements**
- May cause or intensify fire; oxidizer - H270
  - Contains gas under pressure; may explode if heated - H280

### Precautionary statements

- Prevention**
- Keep/Store away from clothing and other combustible materials. - P220
  - Keep reduction valves free from grease and oil. - P244
- Response**
- In case of fire: Stop leak if safe to do so. - P370+P376
- Storage/Disposal**
- Store in a well-ventilated place. - P403

### 2.3 Other hazards

- OSHA HCS 2012**
- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

## Canada

According to WHMIS

### 2.1 Classification of the substance or mixture

**WHMIS**

- Compressed Gas - A  
Oxidizing - C

**2.2 Label elements****WHMIS**

- Compressed Gas - A  
Oxidizing - C

**2.3 Other hazards****WHMIS**

- In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

**2.4 Other information**

- 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, per the requirements of the OSHA Hazard Communicator Standard (29 CFR 1910.1200) and state equivalent standards.

**Section 3 - Composition/Information on Ingredients****3.1 Substances**

| Composition        |                                      |         |           |  |          |
|--------------------|--------------------------------------|---------|-----------|--|----------|
| Chemical Name      | Identifiers                          | %       | LD50/LC50 | Classifications According to Regulation/Directive  | Comments |
| Oxygen             | CAS:7762-44-7<br>EC Number:231-956-9 | > 99.5% | NDA       | EU DSD/DPD: Annex I - O, RE<br>EU CLP: Annex VI Ox. Gas 1 H270, Press. Gas Comp., 1 280<br>OSHA HCS 2012: Ox. Gas 1; Press Gas Comp. | NDA      |
| Maximum Impurities |                                      | < 0.5%  |           | WHMIS:<br>EU DSD/DPD:<br>EU CLP:<br>OSHA HCS 2012:   | NDA      |

**3.2 Mixtures**

- Material does not meet the criteria of a mixture in accordance with Regulation (EC) No 1272/2008.

See Section 16 for full text of *i* statements and *R* phrases.

**Section 4 - First Aid Measures**

## 4.1 Description of first aid measures

### Inhalation

- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. If signs/symptoms continue, get medical attention.

### Skin

- Although exposure is unlikely, in case of contact immediately flush skin with running water. If skin irritation develops get medical advice/attention.

### Eye

- First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first five minutes, then continue rinsing eye. Get medical attention immediately if symptoms occur.

### Ingestion

- First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. Never give anything by mouth to an unconscious person. Do NOT induce vomiting.

## 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

### Notes to Physician

- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

## 4.4 Other information

- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. RESCUERS SHOULD NOT ATTEMPT TO RETRIEVE VICTIMS OF EXPOSURE TO GASES WITHOUT ADEQUATE PERSONAL PROTECTIVE EQUIPMENT. At a minimum, Self-Contained Breathing Apparatus must be worn. Victim(s) who experience any adverse effect after over-exposure to this gas mixture must be taken for medical attention. Rescuers should be taken for medical attention if necessary. Take a copy of the label and the MSDS to physician or other health professional with victim(s).

## Section 5 - Firefighting Measures

### 5.1 Extinguishing media

- Suitable Extinguishing Media**
- Use extinguishing agent suitable for type of surrounding fire.  
SMALL FIRES: Dry chemical or CO<sub>2</sub>.  
LARGE FIRES: Water spray or fog.

**Unsuitable Extinguishing Media**

- No data available

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

- Unusual Fire and Explosion Hazards**
- Containers may explode when heated. Ruptured cylinders may rocket.

- Hazardous Combustion Products**
- No data available

### 5.3 Advice for firefighters

- Structural firefighters' protective clothing provides limited protection in fire situations ONLY: it is not effective in spill situations where direct contact with the substance is possible.  
Always wear thermal protective clothing when handling refrigerated/cryogenic liquids. Wear positive pressure self-contained breathing apparatus (SCBA).  
Move containers from fire area if you can do it without risk.  
FIRE: If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 600 meters (1/2 mile) in all directions.  
FIRE INVOLVING TANKS: Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.  
FIRE INVOLVING TANKS: Cool containers with flooding quantities of water until well

after fire is out.

**FIRE INVOLVING TANKS:** Do not direct water at source of leak or safety devices; icing may occur.

**FIRE INVOLVING TANKS:** Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.

**FIRE INVOLVING TANKS:** ALWAYS stay away from tanks engulfed in fire.

## Section 6 - Accidental Release Measures

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

#### Personal Precautions

- Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not touch or walk through spilled material. Ventilate the area before entry.

#### Emergency Procedures

- Stop leak if you can do it without risk. Keep unauthorized personnel away. Keep out of low areas. Stay upwind. Do not direct water at spill or source of leak. **LARGE SPILL:** Consider initial downwind evacuation for at least 500 meters (1/3 mile)

### 6.2 Environmental precautions

- No data available

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

#### Containment/Clean-up Measures

- Stop leak if you can do it without risk. Do not direct water at spill or source of leak. Use water spray to reduce vapors; do not put water directly on leak, spill area or inside container. If possible, turn leaking containers so that gas escapes rather than liquid. Isolate area until gas has dispersed. Ventilate the area. Allow substance to evaporate.

### 6.4 Reference to other sections

- Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

## Section 7 - Handling and Storage

### 7.1 Precautions for safe handling

#### Handling

- Use only with adequate ventilation. Ventilate closed spaces before entering. Be aware of any signs of dizziness or fatigue, especially if work is done in a poorly ventilated area; exposures to fatal concentrations of this gas mixture could occur without any significant warning symptoms, due to olfactory fatigue or oxygen deficiency. Cylinders should be firmly secured to prevent falling or being knocked-over. Do not attempt to repair, adjust, or in any other way modify cylinders. If there is a malfunction or another type of operational problem, contact nearest distributor immediately. Empty containers retain product residue and can be hazardous. Do not cut, weld, puncture or incinerate container.

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

#### Storage

- Store in a cool, dry, well-ventilated place. Protect cylinders against physical damage. Cylinders should be firmly secured to prevent falling or being knocked-over.

### 7.3 Specific end use(s)

- Refer to Section 1.2 - Relevant identified uses.

## Section 8 - Exposure Controls/Personal Protection

### 8.1 Control parameters

#### Exposure Limits/Guidelines

- Currently there are no applicable exposure limits established for this material.

## 8.2 Exposure controls

### Engineering Measures/Controls

- Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Use explosion-proof - electrical, ventilating and/or lighting equipment.

### Personal Protective Equipment

#### Respiratory

- No data available

#### Eye/Face

- Wear safety glasses

#### Skin/Body

- Wear leather gloves when handling cylinders.

### Environmental Exposure Controls

- Follow best practice for site management and disposal of waste. Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways.

## Section 9 - Physical and Chemical Properties

### 9.1 Information on Physical and Chemical Properties

| Material Description                |                                    |                        |   |
|-------------------------------------|------------------------------------|------------------------|---|
| Physical Form                       | Gas                                | Appearance/Description | Colorless, odorless gas at normal temperature and pressure. |
| Color                               | Colorless                          | Odor                   | Odorless  |
| Odor Threshold                      | Data lacking                       |                        |   |
| General Properties                  |                                    |                        |   |
| Boiling Point                       | 183 C( 297.4 F)                    | Melting Point          | 218.8 C( 381.84 F)  |
| Decomposition Temperature           | Data lacking                       | pH                     | Data lacking  |
| Specific Gravity/Relative Density   | 1.105 (water = 1 @ 21.1 C(69.95 F) | Density                | 1.325 kg/m <sup>3</sup> @ 32 F(0 C)                         |
| Water Solubility                    | 0.0191 % @ 0 C(32 F)               | Viscosity              | Not relevant  |
| Explosive Properties                | Data lacking                       | Oxidizing Properties   | Oxidizing gas.  |
| Volatility                          |                                    |                        |   |
| Vapor Pressure                      | Data lacking                       | Vapor Density          | 1.105 (Air=1)   |
| Evaporation Rate                    | Data lacking                       |                        |   |
| Flammability                        |                                    |                        |   |
| Flash Point                         | Not relevant                       | UEL                    | Not relevant  |
| LEL                                 | Not relevant                       | Autoignition           | Not relevant  |
| Flammability (solid, gas)           | Not flammable.                     |                        |   |
| Environmental                       |                                    |                        |   |
| Octanol/Water Partition coefficient | Not relevant                       |                        |   |

### 9.2 Other Information

- No additional physical and chemical parameters noted.

## 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 polymerization will not occur.

## 10.4 Conditions to avoid

- No data available

## 10.5 Incompatible materials

- No data available

## 10.6 Hazardous decomposition products

- None

## 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 gph | Inhalation | Rat     | 3 1 hour(s) | TCI 0   | NDA        | NDA           | NDA      |

| GHS Properties                | Classification  |
|-------------------------------|---|
| Acute toxicity                | EU/CLP • Classification criteria not met<br>OSHA HCS 2012 • Classification criteria not met |
| Aspiration Hazard             | EU/CLP • Classification criteria not met<br>OSHA HCS 2012 • Classification criteria not met |
| Carcinogenicity               | EU/CLP • Classification criteria not met<br>OSHA HCS 2012 • Classification criteria not met |
| Germ Cell Mutagenicity        | EU/CLP • Classification criteria not met<br>OSHA HCS 2012 • Classification criteria not met |
| Skin corrosion/Irritation     | EU/CLP • Classification criteria not met<br>OSHA HCS 2012 • Classification criteria not met |
| Skin sensitization            | EU/CLP • Classification criteria not met<br>OSHA HCS 2012 • Classification criteria not met |
| STOT-RE                       | EU/CLP • Classification criteria not met<br>OSHA HCS 2012 • Classification criteria not met |
| STOT-9E                       | EU/CLP • Classification criteria not met<br>OSHA HCS 2012 • Classification criteria not met |
| Toxicity for Reproduction     | EU/CLP • Classification criteria not met<br>OSHA HCS 2012 • Classification criteria not met |
| Respiratory sensitization     | EU/CLP • Classification criteria not met<br>OSHA HCS 2012 • Classification criteria not met |
| Serious eye damage/Irritation | EU/CLP • Classification criteria not met<br>OSHA HCS 2012 • Classification criteria not met |

### Potential Health Effects

#### Inhalation

- Acute (Immediate)**
  - Under normal conditions of use, no health effects are expected.
- Chronic (Delayed)**
  - No data available

#### Skin

- Acute (Immediate)**
  - Under normal conditions of use, no health effects are expected.

**Chronic (Delayed)**

- No data available

**Eye****Acute (Immediate)**

- Under normal conditions of use, no health effects are expected.

**Chronic (Delayed)**

- No data available

**Ingestion****Acute (Immediate)**

- Under normal conditions of use, no health effects are expected.

**Chronic (Delayed)**

- No data available

**Key to abbreviations**

TC= Toxic Concentration

**Section 12 - Ecological Information****12.1 Toxicity**

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

**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**

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

**12.6 Other adverse effects****Section 13 - Disposal Considerations****13.1 Waste treatment methods****Product waste**

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

**Packaging waste**

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

**Section 14 - Transport Information**

|           | 14.1 UN number | 14.2 UN proper shipping name | 14.3 Transport hazard class(es) | 14.4 Packing group | 14.5 Environmental hazards |
|-----------|----------------|------------------------------|---------------------------------|--------------------|----------------------------|
| DOT       | UN1072         | Oxygen, compressed           | 2.2                             | NDA                | NDA                        |
| TDG       | UN1072         | OXYGEN, COMPRESSED           | 2.2                             | NDA                | NDA                        |
| IMO/IMDG  | UN1072         | OXYGEN, COMPRESSED           | 2.2                             | NDA                | NDA                        |
| IATA/ICAO | UN1072         | Oxygen, compressed           | 2.2                             | NDA                | NDA                        |

**14.6 Special precautions for user**

- Cylinders should be transported in a secure position, in a well-ventilated vehicle. The transportation of compressed gas cylinders in automobiles or in closed-body vehicles



can present serious safety hazards. If transporting these cylinders in vehicles, ensure these cylinders are not exposed to extremely high temperatures (as may occur in an enclosed vehicle on a hot day). Additionally, the vehicle should be well-ventilated during transport.

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

- Not relevant.

## Section 15 - Regulatory Information

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

**SARA Hazard Classifications** • Pressure(Sudden Release of)

| State Right To Know |           |     |     |     |
|---------------------|-----------|-----|-----|-----|
| Component           | CAS       | MA  | NJ  | PA  |
| Oxygen              | 7782-11-7 | Yes | Yes | Yes |
| Maximum Impurities  | NDA       | No  | No  | No  |

| Inventory          |           |            |             |       |           |           |
|--------------------|-----------|------------|-------------|-------|-----------|-----------|
| Component          | CAS       | Canada DSL | Canada NDSL | China | EU EINECS | EU ELNICS |
| Oxygen             | 7782-44-7 | Yes        | No          | Yes   | Yes       | No        |
| Maximum Impurities | NDA       | No         | No          | No    | No        | No        |

| Inventory (Con't.) |           |            |      |
|--------------------|-----------|------------|------|
| Component          | CAS       | Japan ENCS | TSCA |
| Oxygen             | 7782-44-7 | No         | Yes  |
| Maximum Impurities | NDA       | No         | No   |

## Canada

### Labor

Canada - WHMIS - Classifications of Substances

- Oxygen 7782-44-7 A, C

Canada - WHMIS - Ingredient Disclosure List

- Oxygen 7782-44-7 Not Listed

### Environment

Canada - CEPA - Priority Substances List

- Oxygen 7782-11-7 Not Listed

## China

### Environment

China - Ozone Depleting Substances - First Schedule

- Oxygen 7782-44-7 Not Listed

China - Ozone Depleting Substances - Second Schedule

- Oxygen 7782-44-7 Not Listed

China - Ozone Depleting Substances - Third Schedule

- Oxygen 7782-11-7 Not Listed

**Other****China - Annex I & II - Controlled Chemicals Lists**

- Oxygen 7702-44-7 Not Listed

**China - Dangerous Goods List**

- Oxygen 7782-44-7 LN1072; UN1073

**China - Export Control List - Part I Chemicals**

- Oxygen 7702-44-7 Not Listed

**Europe****Other****EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification**

- Oxygen 7702-44-7 O; R0

**EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits**

- Oxygen 7702-44-7 Not Listed

**Germany****Environment****Germany - TA Luft - Types and Classes**

- Oxygen 7752-44-7 Not Listed

**Germany - Water Classification (VwVwS) - Annex 1**

- Oxygen 7752-44-7 ID Number 743, not considered hazardous to water

**Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes**

- Oxygen 7752-44-7 Not Listed

**Germany - Water Classification (VwVwS) - Annex 3**

- Oxygen 7752-44-7 Not Listed

**Other****Germany - Specifically Regulated Chemicals in TRGS**

- Oxygen 7732-11-7 Not Listed

**Portugal****Other****Portugal - Prohibited Substances**

- Oxygen 7762-11-7 Not Listed

**United Kingdom****Environment****United Kingdom - Pollution Inventory - Schedule 1 - Thresholds for Releases to Air**

- Oxygen 7752-44-7 Not Listed

**United Kingdom - Substances Contained in Dangerous Substances or Preparations**

- Oxygen 7752-44-7 Not Listed

**Other****United Kingdom - Workplace Exposure Limits (WELs) - Substances in Review**

- Oxygen 7752-11-7 Not Listed

#### United Kingdom - The Red List - Dangerous Substances In Water

- Oxygen 7752-44-7 Not Listed

## United States

### Labor

#### U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals

- Oxygen 7782-44-7 Not Listed

#### U.S. - OSHA - Specifically Regulated Chemicals

- Oxygen 7782-44-7 Not Listed

### Environment

#### U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants

- Oxygen 7782-44-7 Not Listed

#### U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

- Oxygen 7782-44-7 Not listed

#### U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances FPCRA RQs

- Oxygen 7782-44-7 Not Listed

#### U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

- Oxygen 7782-44-7 Not Listed

#### U.S. - CERCLA/SARA - Section 313 - Emission Reporting

- Oxygen 7782-44-7 Not Listed

#### U.S. - RCRA (Resource Conservation & Recovery Act) - Basis for Listing - Appendix VII

- Oxygen 7782-11-7 Not Listed

#### U.S. - RCRA (Resource Conservation & Recovery Act) - List for Hazardous Constituents

- Oxygen 7782-44-7 Not Listed

## United States - California

### Environment

#### U.S. - California - Proposition 65 - Carcinogens List

- Oxygen 7782-44-7 Not Listed

#### U.S. - California - Proposition 65 - Developmental Toxicity

- Oxygen 7782-44-7 Not Listed

#### U.S. - California - Proposition 65 - Reproductive Toxicity - Female

- Oxygen 7782-44-7 Not Listed

#### U.S. - California - Proposition 65 - Reproductive Toxicity - Male

- Oxygen 7782-44-7 Not Listed

## United States - Pennsylvania

### Labor

#### U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

- Oxygen 7782-44-7 Not Listed

**U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances**

- Oxygen 7782-44-7 Not Listed

**15.2 Chemical Safety Assessment**

- No Chemical Safety Assessment has been carried out.

**Section 16 - Other Information**

|  |   |
|--|---|
| <b>Last Revision Date</b>                | <ul style="list-style-type: none"><li>• 10/September/2013</li></ul>   |
| <b>Preparation Date</b>                  | <ul style="list-style-type: none"><li>• 10/September/2013</li></ul>   |
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