

SECTION 1: Product and company identification

1.1 Product identifier

Product form	:	Substance
Name	:	Oxygen, compressed
Formula	:	O ₂
UN/ID no.	:	3156
Other means of identification	:	Oxygen; Compressed gas, oxidizing, N.O.S.; Oxygen; Recreational Oxygen; Oxygen 93 Percent; Supplemental Oxygen; Canned Oxygen, Oxygen Canister; Portable Oxygen

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

Use of the substance/mixture	:	Recreational/consumer applications
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1.3 Details of the supplier of the safety data sheet

:	Oxygen Plus, Inc. 5500 Lincoln Drive, Suite 160 Edina, MN 55436 USA (Tel.): 1-952-955-8880 – Toll Free (Tel.): 1-866-675-8711 – (Fax): 1-952-955-8883 (Email): info@oxygenplus.com (Website): www.oxygenplus.com
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1.4 Emergency telephone number

Emergency number	:	Onsite Emergency (Tel.): 1-952-955-8880 – Toll Free (Tel.): 1-866-675-8711
		Hazmat Service Emergency Number (24hr/day, 7days/week) – Hazmat Service™, Inc. USA (Tel.): 800-373-7542 – International (Tel.): +1-484-951-2432

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

GHS-US classification

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

2.2 Label elements

GHS-US labeling

Hazard pictograms (GHS-US)	:	
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Signal word (GHS-US)	:	DANGER
Hazard statements (GHS-US)	:	H270 - MAY CAUSE OR INTENSIFY FIRE; OXIDIZER H280 - CONTAINS GAS UNDER PRESSURE; MAY EXPLODE IF HEATED
Precautionary statements (GHS-US)	:	P202 - Do not handle until all safety precautions have been read and understood P220 - Keep/Store away from combustible materials, clothing P244 - Keep reduction valves/valves and fittings free from oil and grease P271+P403 - Use and store only outdoors or in a well-ventilated place P370+P376 - In case of fire: Stop leak and/or remove product if safe to do so. CGA-PG05 - Use a back flow preventive device in the piping CGA-PG20+CGA-PG10 - Use only with equipment of compatible materials of construction and rated for cylinder pressure CGA-PG22 - Use only with equipment cleaned for oxygen service CGA-PG21 - Open valve slowly CGA-PG06 - Close valve after each use when empty CGA-PG02 - Protect from sunlight when ambient temperature exceeds 49°C/120°F

2.3 Other hazards

Other hazards not contributing to the classification : Not applicable.

2.4 Unknown acute toxicity (GHS US)

No data available.

SECTION 3: Composition/information on ingredients

3.1 Substance

Name : Oxygen, compressed
UN/ID no. : 3156

Chemical Name	Product Identifier	Volume %	Chemical Formula
Oxygen	UN/ID no. 3156	<99	O2
The exact percentage of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of § 1910.1200 of 29 CFR 1910.1200 Trade Secrets.			

3.2 Mixture

Not applicable

SECTION 4: First Aid Measures

4.1 Description of first aid measures

First-aid measure after inhalation : Move to fresh air. Get medical advice.
First-aid measure after skin contact : Adverse effects not expected from this product.
First-aid measure 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 measure after ingestion : Ingestion is not considered a potential route of exposure.

4.2 Most important symptoms and effects, both acute and delayed

No additional information available.

4.3 Indication of any immediate medical and special treatment needed.

None.

SECTION 5: Firefighting measures

5.1 Extinguishing media

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

5.2 Special hazards arising from the substance or mixture

Fire and explosion hazard : Oxidizing agent; vigorously accelerates combustion. Contact with flammable materials may cause fire or explosion of container. Ruptured container may propel.

5.3 Advice for firefighters

Advice for firefighters : High-pressure, oxidizing gas
Evacuate all personnel from the danger area. Use self-contained breathing apparatus (SCBA) 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. On-site fire brigades must comply with OSHA 29 CFR 1910.156 and applicable standards under 29 CFR 1910 Subpart L—Fire Protection.
Special protective equipment for firefighters : Standard protective clothing and equipment (Self Contained Breathing Apparatus) for fire fighters.

- Specific methods : Use fire control measures appropriate for the surrounding fire. Exposure to fire and heat radiation may cause gas containers to rupture. Cool endangered containers with water spray jet from a protected position. Prevent water used in emergency cases from entering sewers and drainage systems.
- Stop flow of product if safe to do so.
- Use water spray or fog to knock down fire fumes if possible.
- Other information : Heat of fire can build pressure in container and cause it to rupture. Containers are equipped with a pressure relief device. (Exceptions may exist where authorized by DOT.) No part of the container should be subjected to a temperature higher than 49°C/120°F. Smoking, flames, and electric sparks in the presence of enriched oxygen atmospheres are potential explosion hazards.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- General measures : Prevent from entering basements 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.

6.1.1 For non-emergency personnel

No additional information available.

6.1.2 For emergency responders

No additional information available.

6.2 Environmental precautions

Try to stop release.

6.3 Methods and material for containment and cleaning up

No additional information available.

6.4 Reference to other sections

See SECTION 8 and SECTION 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Precautions for safe handling : Protect containers from physical damage. Do not use, or store, above 49°C/120°F. Do not cut, weld, puncture or incinerate container.

7.2 Conditions for safe storage, including and incompatibilities

- Storage conditions : Store in cool, dry, well-ventilated place.

7.3 Specific end use(s)

- : Recreational/consumer use/application; online/retail distribution

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Oxygen, compressed (UN/ID no. 3156)	
ACGIH	Not established
USA OSHA	Not established

Oxygen (UN/ID no. 3156)	
ACGIH	Not established
USA OSHA	Not established

8.2 Exposure controls

- Appropriate engineering controls : Good general ventilation should be used. Avoid oxygen rich (>23.5%) atmospheres. Mechanical (general): General exhaust ventilation may be acceptable if it can maintain an adequate supply of air.
- Eye protection : Wear safety glasses with side shields.
- Skin and body protection : No special protective equipment required.
- Respiratory protection : No special protective equipment required.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Physical state : Gas.
- Appearance : Colorless gas.
- Molecular mass : 32 g/mol.
- Color : Colorless.
- Odor : No odor warning properties.
- Odor threshold : No data available.
- pH : Not applicable.
- Relative evaporation rate (butyl acetate=1) : No data available.
- Relative evaporation rate (ether=1) : Not applicable.
- Melting point : -362°F (-219°C)
- Freezing point : No data available.
- Boiling point : -297°F (-183°C)
- Flash point : Not applicable.
- Critical temperature : -181.48°F (-118.6°C)
- Auto-ignition temperature : Not applicable.
- Decomposition temperature : No data available.
- Flammability (solid, gas) : No data available.
- Vapor pressure : Not applicable.
- Critical pressure : 50.4 bar (731.4 psia)
- Relative vapor density at 20°C : 0.0827 lb/ft3 (1.325 kg/ms) absolute vapor density at 70°F (21.1°C), 1 atm
- Relative density : 1.1
- Density : 1.4289 kg/m3 (at 70°F (21.1°C)
- Relative gas density : 1.1
- Solubility : Water: 39 mg/l
- Log Pow : Not applicable.
- Log Kow : Not applicable.
- Viscosity, kinematic : Not applicable.
- Viscosity, dynamic : Not applicable.
- Explosive properties : Not applicable.
- Oxidizing properties : Oxidizer.
- Explosion limits : No data available.

9.2 Other information

- Gas group : Compressed gas.
- Additional information : Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level.

SECTION 10: Stability and reactivity

10.1 Reactivity

No additional information available.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Violently oxidizes organic material. Risk of fire in contact with combustive materials.

10.4 Conditions to avoid

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

10.5 Incompatible materials

Keep equipment free from oil, grease, combustibles and reducers.

10.6 Hazardous decomposition products

None.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity	:	Not classified.
Skin corrosion/irritation	:	Not classified. pH: Not applicable.
Serious eye damage/irritation	:	Not classified. pH: Not applicable.
Respiratory or skin sensitization	:	Not classified.
Germ cell mutagenicity	:	Not classified.
Carcinogenicity	:	Not classified.
Reproductive toxicity	:	Not classified.
Specific target organ toxicity (single exposure)	:	Not classified.
Specific target organ toxicity (repeated exposure)	:	Not classified.
Aspiration hazard	:	Not classified.

SECTION 12: Ecological information

12.1 Toxicity

Ecology – general : Will not bioconcentrate.

12.2 Persistence and degradability

Oxygen, compressed (UN/ID no. 3156)	
Persistence and degradability	No ecological damage caused by this product.
Oxygen (UN/ID no. 3156)	
Persistence and degradability	No ecological damage caused by this product.

12.3 Bioaccumulative potential

Oxygen, compressed (UN/ID no. 3156)	
Log Pow	Not applicable.
Log Kow	Not applicable.
Bioaccumulative potential	No ecological damage caused by this product. Will not bioconcentrate.
Oxygen (UN/ID no. 3156)	
Log Pow	Not applicable.
Log Kow	Not applicable.
Bioaccumulative potential	No ecological damage caused by this product.

12.4 Mobility in soil

Oxygen, compressed (UN/ID no. 3156)	
Mobility in soil	No data available.
Ecology – soil	No ecological damage caused by this product.
Oxygen (UN/ID no. 3156)	
Mobility in soil	Not applicable.
Ecology – soil	No ecological damage caused by this product.

12.5 Other adverse effects

- Effect on ozone layer : None.
- Effect on the global warming : No known effects from this product.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- Waste disposal recommendations : Dispose of contents/containers in accordance with local/regional/national/international regulations.

SECTION 14: Transport information

UN3156 COMPRESSED GAS, OXIDIZING, N.O.S. (Oxygen), 2.2 (5.1)

- In accordance with U.S. DOT transportation document description : UN3156, Compressed gas, oxidizing, n.o.s. (Oxygen), 2.2
- ID Number : UN3156
- Proper Shipping Name : Compressed gas, oxidizing, n.o.s. (Oxygen)
- Transport hazard class : 2.2 – Non-flammable gas
- Packing Group :
- Hazard labels : 2.2 – Non-flammable gas
5.1 – Oxidizer

Additional information

- Emergency Response Guide (ERG) No : 122
- Special provisions : A14: This material is not authorized to be transported as a limited quantity or consumer commodity in accordance with § 173.306 of this subchapter when transported aboard an aircraft.
- Special permit : DOT-SP 10704
8. SPECIAL PROVISIONS:
 - a. A person who is not a holder of this special permit who receives a package covered by this special permit may reoffer it for transportation provided no modifications or change are made to the inner packaging or its contents and it is reoffered for transportation in conformance with this special permit and the HMR.
 - b. A current copy of this special permit must be maintained at each facility where the package is offered or reoffered for transportation.
 - c. MARKING - Each outer package must meet the marking requirements of Subpart D of Part 172 and be marked "DOT-SP 10704".
- Limited quantities (LQ) : Passenger aircraft/rail: 75 kg
Cargo aircraft only: 150 kg
- Remarks :
 - The Biggi size of the product must be shipped per special permit DOT-SP 10704 and be appropriately marked.
 - The smaller sizes of the product may be shipped as a Limited Quantity or ORM-D, but not offered by air shipment as a limited quantity in the US. The product may be offered for cargo air shipment if shipped fully regulated.
 - No size of the product may be either carried on a passenger plane or offered in checked luggage per the TSA.
 - No Packing Group is assigned to compressed gases, since the requirements for packaging are fully specified in the regulation.

Special transport precautions : Ensure containers are transported in strong outside packaging. Ensure containers are not exposed to temperatures greater than 49°C/120°F as rupture may occur.

Transport by sea

ID Number : UN3156
 Proper Shipping Name : Compressed gas, oxidizing, n.o.s. (Oxygen)
 Hazard class : 2.2 – Gases
 Subsidiary Class : 5.1 - Oxidizer
 Packing Group :
 EMS : F-C, S-W
 Packing Instruction : P200

Transport by air

UN-No. (IATA) : UN3156
 Proper Shipping Name (IATA) : Compressed gas, oxidizing, n.o.s. (Oxygen)
 Class (Subsidiary) : 2.2 (5.1)
 Packing Group :
 Packing Instruction : 200
 Note : In the US this material is not authorized to be transported as a limited quantity or consumer commodity transported aboard an aircraft.

SECTION 15: Regulatory information

15.1 US Federal regulations

Oxygen, compressed (UN3156)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
SARA Section 311/312 Hazard Classes	Sudden release of pressure hazard. Fire hazard.

All components of this product are listed on the Toxic Substances Control Act (TSCA) inventory.

15.2 International regulations

CANADA

Oxygen, compressed (UN3156)
Listed on the Canadian DSL (Domestic Substances List)
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EU-Regulations

Oxygen, compressed (UN3156)
Listed on the EEC inventory EINECA (European Inventory of Existing Commercial Chemical Substances)

15.2.2 National regulations

Oxygen, compressed (UN3156)
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3 US State regulations

Oxygen, compressed (UN3156)	
U.S. - California - Proposition 65 – Carcinogens List	No
U.S. - California - Proposition 65 – Developmental Toxicity	No
U.S. - California - Proposition 65 – Reproductive Toxicity – Female	No
U.S. - California - Proposition 65 – Reproductive Toxicity – Male	No
State or local regulations	U.S. - Massachusetts – Right To Know List U.S. - New Jersey – Right to Know Hazardous Substance List U.S. - Pennsylvania – RTK (Right to Know) List

California Proposition 65 – This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm.

Oxygen (UN3156)				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	Non-significant risk level (NSRL)
No	No	No	No	No

Oxygen (UN3156)
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

Other information : The information contained herein relates only to this specific product.

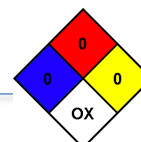
Oxygen Plus, Inc. asks users of this product to study this Safety Data Sheet (SDS) and become aware of the product hazards and safety information. To promote safe use of this product, a user should (1) notify employees, agents, and contractors of the information in this SDS and of any other known product hazards and safety information, (2) furnish this information to each purchaser of the product, and (3) ask each purchaser to notify its employees and customers of the product hazards and safety information.

The opinions expressed herein are those of qualified experts within Oxygen Plus, Inc. We believe that the information contained herein is current as of the date of this Safety Data Sheet. Since the use of this information and the conditions of use are not within the control of Oxygen Plus, Inc., it is the user's obligation to determine the conditions of safe use of the product.

To obtain current SDSs for this product, contact Oxygen Plus, Inc. or download from www.oxygenplus.com. If you have questions regarding Oxygen Plus SDSs, would like the date of the latest SDS, or would like the names of Oxygen Plus retailers in your area, call, email or write Oxygen Plus (Tel.: 1-952-955-8880 – Toll Free (Tel.): 1-866-675-8711; info@oxygenplus.com; Oxygen Plus, Inc., 5400 Opportunity Court, Suite 110, Minnetonka MN, 55343, USA).

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NFPA health hazard : 0 - Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials.



NFPA fire hazard	:	0 - Materials that will not burn.
NFPA reactivity	:	0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
NFPA specific hazard	:	OX - This denotes an oxidizer, a chemical which can greatly increase the rate of combustion/fire.

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