Safety Data Sheet

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

1.1 Product Identifier

Product Name • **Boost Oxygen**

Synonyms • Aviator's Breathing Oxygen (ABO)

CAS Number • 7782-44-7

EC Number • 231-956-9

Molecular Formula • O_2

1.2 Uses and uses advised against

Relevant identified use(s) • Recreational Use of Oxygen

1.3 Details of the supplier of the product

Manufacturer • Boost Oxygen

265 Asylum Street
Unit 1
Bridgeport, CT 06610
United States
www.boostoxygen.com
info@boostoxygen.com

Telephone (Technical) • (US) 203-619-3616

Telephone (Technical) • (US) 203-331-8100

Telephone (UK) • (UK) 0333 577 0041

Importer (UK)

- (UK) 0333 577 0041
- www.boostoxygen.life
- sales@boostoxygen.life

1.4 Emergency telephone number

Manufacturer • (US) 203-331-8100

Manufacturer • +1 703-527-3887 - Outside United States

United Kingdom • In England and Wales: NHS 111 - dial 111, In Scotland: NHS 24 - dial 111
In N Ireland: Contact your local GP or pharmacist during normal hours, In Republic of Ireland: 01 809 2166

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

CLP
- Oxidizing Gases 1 - H270
  Compressed Gas - H280

DSD/DPD
- Oxidizing (O)

  R8

2.2 Label Elements

CLP

DANGER

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.

Response
- P370+P376 - In case of fire: Remove product 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

Response
- In case of fire: Remove product 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.

United Kingdom

2.1. Classification of the substance or mixture

Classification acc. to Regulation (EC) No 1272/2008/EC (CLP/GHS)

- Press. Gas (Compressed gas) - Contains gas under pressure; may explode if heated.
- Ox. Gas 1 - May cause or intensify fire; oxidiser.
- **Classification acc. to Directive 67/548/EEC & 1999/45/EC:** O; R8
- Contact with combustible material may cause fire.
- **Risk advice to man and the environment:** Compressed gas.

2.2. Label elements

-Labelling Pictograms

2.2 Label elements

Pictogram(s)

Signal Word DANGER

Hazard Statements

H270 May Cause or intensify fire; oxidizer.

Precautionary Statements

Prevention

P103 Read label before use.

P220 Keep/Store away from clothing/incompatible materials/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

P403 Store in a well-ventilated place.

Disposal

None allocated.

2.3 Other Hazards

None.

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 Communication Standard (29 CFR 1910.1200) and state equivalent standards.

NFPA

Section 3 - Composition/Information on Ingredients

3.1 Substances

Composition					
Chemical Name	**Identifiers**	**%**	**LD50/LC50**	**Classifications According to Regulation/Directive**	**Comments**
Oxygen	**CAS:**7782-44-7 **EC Number:**231-956-9	> 95.0%	NDA	**EU DSD/DPD:** Annex I - O; R8 **EU CLP:** Annex VI - Ox. Gas 1 H270; Press. Gas - Comp., H280 **OSHA HCS 2012:** Ox. Gas 1; Press Gas. - Comp.	NDA
Maximum Impurities		< 0.5%		**WHMIS:** **EU** **DSD/DP** **D: EU**	NDA
Ambient Air (78% Nitrogen, 21% Oxygen, <1% argon, <1% Carbon Dioxide, <1% other gases)		< 5.0%		**None**	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 H-statements and R-phrases.

Section 4 - First Aid Measures

4.1 Description of first aid measures

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

Skin
- First aid is not expected to be necessary.

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

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

First Aid Facilities
- No information provided.

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

- Users who experience any adverse effect after use of this product should seek fresh air. If symptoms persist seek medical attention. Take the can and the SDS to physician or other health professional.

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_2.
  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

Hazardous Combustion Products

5.3 Advice for firefighters

5.4. Hazchem code

- Containers may explode when heated.
  Ruptured can may rocket.
- No data available

- Structural firefighters' protective clothing provides limited protection in fire situations
  Move cans from fire area if you can do it without risk.

- 2S
- 2 Fine Water Spray
- S Risk of violent reaction or explosion. Wear full fire kit and breathing apparatus. Dilute spill and run-off.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions

- Do not use, or store, above 120F

6.2 Environmental precautions

- No data available

6.3 Methods and material for containment and cleaning up

Containment/Clean-up Measures

- None expected

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

- Do not cut, weld, puncture or incinerate can.

7.2 Conditions for safe storage, including any incompatibilities

Storage

- Store in a cool, dry, well-ventilated place. Protect cans against physical damage.

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.

Personal Protective Equipment

Respiratory

- None

Eye/Face

- None

Skin/Body

- None

Environmental Exposure Controls

- None necessary

Section 9 - Physical and Chemical Properties

9.1 Information on Physical and Chemical Properties

Material Description			
Physical Form	Gas	Appearance/Description	Colorless, odorless gas
Color	Colorless	Odor	Odorless
Odor Threshold	Data lacking		
General Properties			
Boiling Point	-183 C(-297.4 F)	Melting Point	-218.8 C(-361.84 F)
Decomposition Temperature	Data lacking	pH	Data lacking
Specific Gravity/Relative Density	1.105 Water=1 @ 21.1 C(69.98 F)	Density	1.326 kg/m³ @ 32 F(0 C)
Water Solubility	0.0491 % @ 0 C(32 F)	Viscosity	Not relevant
Explosive Properties	Data lacking	Oxidizing Properties:	Oxidizing gas.
Volatility			
Vapor Pressure	2L- 260psig 6L-150psig	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 pph	Inhalation	Rat	9 Hour(s)	TCLo	NDA	NDA	NDA

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

• No data available

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 (6L)	UN1950	Compressed Gas, Oxidizing	2.2	LTD QTY	None
DOT (2L)	UN1950	Aerosols	2.2	LTD QTY	None
TDG	UN1950	Aerosols	2.2	LTD QTY	None
IMO/IMDG	UN1950	Aerosols	2.2	LTD QTY	None
IATA/ICAO	UN1950	Aerosols	2.2	LTD QTY	None

14.6 Special precautions for user

- Cans should be transported in strong outside package
- Ensure cans are not stored at temperatures above 120' F

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	7782-44-7	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

Europe

Other

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

- Oxygen 7782-44-7 O; R8

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

- Oxygen 7782-44-7 Not Listed

Germany

Environment

Germany - TA Luft - Types and Classes

- Oxygen 7782-44-7 Not Listed

Germany - Water Classification (VwVwS) - Annex 1

- Oxygen 7782-44-7 ID Number 743, not considered hazardous to water

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

- Oxygen 7782-44-7 Not Listed

Germany - Water Classification (VwVwS) - Annex 3

- Oxygen 7782-44-7 Not Listed

Other

Germany - Specifically Regulated Chemicals in TRGS

- Oxygen 7782-44-7 Not Listed

New Zealand

15.1

New Zealand – Safety, health, and environmental regulations/legislation specific for the substance of mixture

- Approval code HSR002534
- Group standard Compressed Gases (Oxidising) Group Standard 2006
- Inventory listing(s) **New Zealand: NZIoC (New Zealand Inventory of Chemicals)**
  All components are listed on the NZIoC inventory, or are exempt.

Portugal

Other

Portugal - Prohibited Substances

- Oxygen 7782-44-7 Not Listed

United Kingdom

Environment

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

- Oxygen 7782-44-7 Not Listed

United Kingdom - Substances Contained in Dangerous Substances or Preparations

- Oxygen 7782-44-7 Not Listed

Other

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

- Oxygen 7782-44-7 Not Listed

United Kingdom - The Red List - Dangerous Substances in Water

- Oxygen 7782-44-7 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 EPCRA 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 7782-44-7 Not Listed

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

• Oxygen 7782-44-7 Not Listed

15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

Section 16 - Other Information

Last Revision Date	• New
Preparation Date	• March 18, 2017
Disclaimer/Statement of Liability	• To the best of Boost Oxygen's knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either express or implied, are provided. The information contained herein relates only to this specific product. Data may be changed from time to time. Be sure to consult the latest edition.