

BOOST Oxygen NZ Australia Safety Data Sheet

(Updated 12 July 2017)

Section 1: Identification of the substance and supplier/distributor

1.1 Product identifier

Product name	Boost Oxygen
Synonyms:	Aviator's Breathing Oxygen (ABO); Compressed Oxygen; R732
CAS Number	7782-44-7
EC Number	231-956-9
Molecular Formula	O ₂
Molecular Weight	32.0
Water solubility (mg/ml)	39
Composition	95% O ₂ and 5% air

1.2 Relevant recommended use

Recreational use of Oxygen for Personal Consumption

1.3 New Zealand supplier/distributor

O2 Boost Ltd

PO Box 11063

Grafton

Auckland, 1148

Tel: +64 (0)21 02 02 02 20; +64 (0)21 020 26678

Email: O2BoostNZ@gmail.com

1.4 Emergency Telephone Numbers

- NZ National Poisons Centre 0800 POISON (0800 764 766)
- Dr C Kruger +64 (0)21 747 800

Section 2: Hazards identification

EU/EEC

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

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

2.2 Hazard classification:

HSNO:	2.2 Non-flammable aerosol; 5.1.2A Oxidising substances - gases
CLP	UN Number 1072, 1073, UN Class 2.2; 5.1 Compressed gas H280
DSD/DPD	R8

2.3 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

2.4 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 is provided in the safety datasheet pursuant to the act: "Hazardous Substances and New Organisms Act 1996 (Amended 1 July 2010) section 96B: Compressed Gas Mixtures (Oxidising [5.1.2]) Group Standard 2006.

Section 3 - Composition/Information on Ingredients

3.1 Chemical identity:

Oxygen (O₂)

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EC Number	231-956-9
Molecular Formula	O ₂
Molecular Weight	32.0
Water solubility (mg/ml)	39
Composition	95% O ₂ and 5% air
Maximum impurities	<0.5% (Not hazardous)

3.2 Mixtures

Material does not meet the criteria of a mixture

Section 4

4.1 - First aid measures

Inhalation / Skin / Eye / Ingestion

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

4.2 - The most important symptoms and effects, acute and delayed, from exposure

Non-toxic (refer section 11) when used under ordinary conditions and as recommended. No symptoms, effects acute or delayed are expected from exposure.

4.3 – Indication of any immediate medical attention and special treatment needed

All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to exposure to substances **other than** this product. Consider **other** underlying medical conditions.

4.4 Other information

Users who experience any adverse effects or unwanted symptoms after using this product should cease use of the product, seek fresh air and if symptoms persist seek medical attention. Take the can and or the Safety Data Sheet to physician or other health professional.

Section 5 – Firefighting measures

5.2 Extinguishing media

Suitable Extinguishing Media Use the appropriate type of extinguishers or fire-fighting agents suitable for the **type of surrounding fire**.

SMALL FIRES: Dry chemical or CO₂

LARGE FIRES: Water spray or fog

Unsuitable extinguishing media No data available

5.2 - Special hazards arising from the substance, combustion products or mixtures

Unusual Fire and Explosion Hazards Containers may explode when heated
Ruptured can may rocket

Hazardous combustion products No data available

5.3 - Advice/precautions for fire fighters and protective clothing requirements

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

Section 6 - Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions Do not use or store above 120 °F/48°C

6.2 Environmental precautions

No data

6.3 Methods and material for containment and cleaning up a spill or release

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

Do not cut, weld, puncture, heat or incinerate can

7.2 Conditions for safe storage including any incompatibilities

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

*For large quantities (3,000 L aggregate water capacity stored for more than 18 hours) refer to EPA Site and Storage Conditions for Aerosols (Amended August 2014)

Section 8 - Exposure controls/personal protection

8.1 Exposure limits

Currently there are no applicable exposure limits established for this material locally or overseas

8.2 Exposure controls

Engineering controls Good general ventilation should be used

Personal protective equipment

Respiratory	None
Eye/Face	None
Skin/body	None

Environmental controls None needed

Section 9 - Physical and chemical properties

Material description

Colourless, odourless gas

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/rel density	1.105 water = 1@21.1°C/69.9°F	Density	1.326kg/m ³ @ 0°C/32°F°
Water solubility	0.0491% @ 0°C/32°F	Viscosity	Not relevant
Explosive properties	Data lacking	Oxidizing Properties	Oxidizing gas

Volatility

Vapour pressure	2L-260psig 6L 150 psig	Vapour Density	1.105 Air-1
Evaporation rate	Data lacking		

Flammability

Flash Point	Not relevant	Auto-ignition	Not relevant
LEL	Not relevant		

Environmental

Octanol/water partition coefficient

Section 10 - Stability and reactivity

10.1 Chemical stability

Stable under normal temperatures and pressures and under anticipated recommended storage and handling conditions

10.2 Conditions to avoid a hazardous situation

Extreme heat and pressure

10.3 Reactivity

No dangerous reaction known under conditions of normal use

10.4 Incompatible materials

No data available

10.5 Hazardous decomposition products

None

Section 11-Toxicological information

Test type	Dosage	Route	Species	Duration	Results	Test Class	Target organs	Comments
Reproductive	10ppm	Inhaled	Rat	9 hours	TCLo	NDA	NDA	NDA

(Tc = toxic concentration)

Acute toxicity	<i>EU/CLP and OSHA HCS 2012 classification criteria not met</i>
Aspiration hazard	<i>EU/CLP and OSHA HCS 2012 classification criteria not met</i>
Carcinogenicity	<i>EU/CLP and OSHA HCS 2012 classification criteria not met</i>
Germ Cell Mutagenicity	<i>EU/CLP and OSHA HCS 2012 classification criteria not met</i>
Skin corrosion/irritation	<i>EU/CLP and OSHA HCS 2012 classification criteria not met</i>
Skin sensitization	<i>EU/CLP and OSHA HCS 2012 classification criteria not met</i>
Toxicity for reproduction	<i>EU/CLP and OSHA HCS 2012 classification criteria not met</i>
Respiratory sensitization	<i>EU/CLP and OSHA HCS 2012 classification criteria not met</i>
Serious eye damage/irritation	<i>EU/CLP and OSHA HCS 2012 classification criteria not met</i>

Potential health effects

Inhalation	Acute (immediate)	<i>Under normal conditions of use, no health effects expected</i>
	Chronic (delayed)	<i>No data available</i>
Skin	Acute (immediate)	<i>Under normal conditions of use, no health effects expected</i>
	Chronic (delayed)	<i>No data available</i>
Eye	Acute (immediate)	<i>Under normal conditions of use, no health effects expected</i>
	Chronic (delayed)	<i>No data available</i>
Ingestion	Acute (immediate)	<i>Under normal conditions of use, no health effects expected</i>
	Chronic (delayed)	<i>No data available</i>

Section 12 - Ecological information

12.1 Ecotoxicity

Oxygen occurs naturally in the atmosphere at 21%. The expelled gas will be dissipated rapidly in well ventilated areas

12.2 Persistence and degradability

No data available

12.3 Mobility in soil

No data available

12.4 Bioaccumulative potential

No data available

Section 13 - Disposal considerations

13.1 Disposal methods, including disposal of packaging

In accordance with local, regional, national, and/or international regulations.

Do not heat, pressure or puncture container

Section 14 - Transport information

	14.1 UN Number	14.2 UN Proper shipping name	14.3 Transport hazard class	14.4 Packing group	14.5 Environmental hazards
<i>DOT (6L)</i>	<i>UN 1950</i>	<i>Compressed gas</i>	2.2	<i>SP-10704</i>	<i>None</i>
<i>DOT (2L)</i>	<i>UN 1950</i>	<i>Aerosols</i>	2.2	<i>LTD QTY</i>	<i>None</i>
<i>TDG</i>	<i>UN 1950</i>	<i>Aerosols</i>	2.2	<i>LTD QTY</i>	<i>None</i>
<i>IMO/IMDG</i>	<i>UN 1950</i>	<i>Aerosols</i>	2.2	<i>LTD QTY</i>	<i>None</i>
<i>IATA/ICAO</i>	<i>UN 1950</i>	<i>Aerosols</i>	2.2	<i>LTD QTY</i>	<i>None</i>

14.6 Special precautions for user

Cans should be transported in strong outside packaging

Ensure cans are not exposed to temperatures greater than 120°F/ C° (can occur in an enclosed vehicle on a hot day)

Section 15 – Regulatory Information

15.1 Title of the Group Standard

SARA Hazard Classification Pressure (sudden release of)
Oxygen CAS 778-44-7

15.2 Chemical safety assessment

Not done

- (i) HSNO approval number and/or title of the Group Standard; and
- (ii) information on the conditions of the Group Standard, and any other regulatory requirements;

Section 16 – Other information

- Last revision date 12 July 2017
- Preparation date 11 April 2016

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