BOSSWELD SAFETY DATA SHEET

| | |
|---|---|
| **Product Name** | Bossweld Oxygen Disposable Gas Bottle |
| **Part Number** | 490004 |
| **SDS Document Number** | SDS_Bossweld_Oxygen Gas Bottle_V1.2_051225 |
| **Issue Date** | 05/12/25 |

# 1 Product identifier & identity for the chemical

## 1.1 Product Identifier

Product Name: Bossweld Oxygen Disposable Gas Bottle

Part Numbers: 490004

Synonyms: N/A

## 1.2 Other means of identification

N/A

## 1.3 Recommended use of the chemical and restrictions on use

Oxygen gas for brazing applications. Not to be used for any other purpose.

## 1.4 Suppliers name, address and phone number

Supplier Name: Dynaweld Industrial Supplies Pty Ltd

Address: Building 2, 10 Jessica Place, Prestons NSW 2214, Australia

Phone: +61 2 8761 6500

Email: sales@dynaweld.com.au

Web Site: https://www.dynaweld.com.au

## 1.5 Emergency phone number

Emergency Phone: +61 2 8761 6500 (Australia)

# 2 Hazard Identification

## 2.1 Classification of the hazardous chemical

Oxidising gas, H270 – May cause or intensify fire; oxidiser

Press. Gas, H280 – Contains gas under pressure; may explode if heated.

## 2.2 Label elements, including precautionary statements

Signal Word: DANGER

Symbols:

Hazard Statements:

| | |
|---|---|
| H270 | May cause or intensify fire; oxidiser |
| H280 | Contains gas under pressure; may explode if heated |

Precautionary Statements General

| | |
|---|---|
| P102 | Keep out of reach of children. |

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Precautionary Statements Prevention

| | |
|---|---|
| P244 | Keep valves and fittings free from grease and oil. |
| P220 | Keep away from clothing and other combustible materials. |
| 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. |
| P251 | Do not pierce or burn, even after use. |

Precautionary Statements Response

| | |
|---|---|
| P370+P376 | In case of fire: Stop leak if safe to do so. |

Precautionary Statements Storage

| | |
|---|---|
| P410+P403 | Protect from sunlight. Store in a well-ventilated place. |
| P412 | Do not expose to temperatures exceeding 50 °C/ 122 °F. |

### 2.3 Other hazards which do not result in classification

Not classified as PBT or vPvB.

The substance/mixture has no endocrine disrupting properties.

## 3 Composition/information on ingredients

### 3.1 Identity of chemical ingredients

| Chemical Name | CAS No. | Concentration Range (%) |
|---|---|---|
| Oxygen | (7782-44-7) | ≥ 99.99 |

### 3.2 CAS number and other unique identifiers

*Note: See section 3.1*

### 3.3 Concentration of ingredients

*Note: See section 3.1*

## 4 First Aid Measures

### 4.1 Description of necessary first aid measures

General: If exposed or concerned get medical advice / attention.
Get medical advice/attention if you feel unwell.

Inhalation: Move the person quickly to a ventilated place.

Skin contact: Not expected to present a significant skin hazard under anticipated conditions of normal use.

Eye contact: Not expected to present a significant eyes hazard under anticipated conditions of normal use.

Ingestion: Not considered a normal route of exposure.

### 4.2 Symptoms caused by exposure

Continuous inhalation of concentrations higher than 75% may cause nausea, dizziness, respiratory difficulty and convulsion.

*Note: Refer to Section 11 for further information.*

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### 4.3 Medical Attention and Special Treatment

Treat symptomatically.

## 5 Fire Fighting Measures

### 5.1 Suitable extinguishing media

Water spray or fog.

Product does not burn, use fire control measures appropriate for the surrounding fire.

Do not use water jet to extinguish.

### 5.2 Specific hazards arising from the chemical

Exposure to fire may cause containers to rupture/explode. Supports combustion.

### 5.3 Special protective equipment and precautions for fire fighters

| | |
|---|---|
| Special protective equipment: | Follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |
| Special precautions: | Use firefighting procedures suitable for surrounding area. Cool endangered containers with water spray jet from a protected position. Do not empty contaminated fire water into drains. If possible, stop flow of product. |

## 6 Accidental release measures

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

Try to stop the spill.
Ensure adequate ventilation.
Avoid entering drains, basements, excavations and areas where accumulation can be dangerous.
Monitor the concentration of the released product.
Eliminate sources of ignition.
Evacuate area.

*Note: Refer to recommendations in Section 8.*

### 6.2 Environmental precautions

If safe, try to stop release.

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

If safe, try to stop release. Ensure adequate ventilation.

*Note/s: For further information, see Section 8. Refer to Section 13 for proper disposal.*

## 7 Handling and Storage

### 7.1 Precautions for safe handling

Only experienced and trained personnel should handle gases under pressure.

The product must be handled in accordance with good industrial safety and hygiene practices.

Use only specific equipment, suitable for the product, the pressure and the temperature of use.

If in doubt, contact your gas supplier.

Do not use oil or grease. Do not smoke while handling the product.

Keep the equipment free of oil and grease.

Use only lubricants and gaskets approved for use with oxygen.

Use only with oxygen degreased equipment suitable for cylinder pressure.

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**Safe handling of the cylinder**

Slowly open the valve to avoid pressure surges.

Protect cylinders from physical damage; do not drag, roll, slide or drop.

If the operator encounters any difficulty during the operation of the valve, discontinue use and contact the supplier.

Never attempt to repair or modify cylinder valves.

Damaged valves should be reported to the supplier immediately.

Keep valves clean and free of contaminants, especially oil and water.

Never attempt to transfer gases from one cylinder to another.

Do not use direct flames or electric heating to increase the pressure inside the container.

Do not remove or make illegible or modify the labels affixed to identify the contents of the cylinder

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

Store in a cool, dry, and well ventilated area. Do not expose to temperatures exceeding 50°C. Do not store with flammable gases or materials. Protect from heat, sparks, flame and other sources of ignition. Containers should be stored in an upright position and secured so as to prevent the risk of falling

## 8 Exposure controls/personal protection

### 8.1 Control parameters – exposure standards, biological monitoring

No exposure standards set.

### 8.2 Appropriate engineering controls

Ventilation: Use enough ventilation, local exhaust at the arc, or both, to keep the fumes and gases below the exposure limits in the worker's breathing zone, and the general area. Keep exposure as low as possible.

*Note: See WTI Technical Note 7 – Health and Safety in Welding for further information / guidance.*

### 8.3 Personal protective equipment (PPE)

| | | |
|---|---|---|
| **Eye Protection** |  | Wear safety glasses with side shields or goggles. |
| **Hand protection:** |  | Wear protective gloves. Suitable gloves can be recommended by the glove supplier. |
| **Protective Clothing** |  | Wear hand, head, and body protection that will help to prevent injury from using this product.<br>At a minimum this includes welder's gloves and a protective face shield, and may include arm protectors, aprons, hats, shoulder protection, as well as dark substantial clothing. Wear dry gloves free of holes or split seams. |
| **Respiratory protection:** |  | Avoid oxygen rich (>21%) atmospheres. |
| **Hygiene measures:** |  | Do not eat, drink or smoke when using the product. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. |

*Note: See WTI Technical Note 7 – Health and Safety in Welding for further information / guidance.*

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## 9 Physical and chemical properties

| | Property | Product description |
|---|---|---|
| 9.1 | Appearance | Colourless gas |
| 9.2 | Odour | Odourless |
| 9.3 | Odour threshold | Odour threshold is subjective and is inadequate to warn of over exposure |
| 9.4 | pH | No further relevant information available |
| 9.5 | Melting point/freezing point | -218.4 °C. |
| 9.6 | Boiling point and boiling range | -183 °C. |
| 9.7 | Flash point | Not applicable |
| 9.8 | Evaporation rate | Not applicable |
| 9.9 | Flammability | Not applicable |
| 9.10 | Upper/lower flammability or explosive limits | Not applicable |
| 9.11 | Vapour pressure | Not applicable |
| 9.12 | Vapour density (air = 1) | 1.1 |
| 9.13 | Relative density | 1.1 |
| 9.14 | Solubility(ies) | 39 mg/l |
| 9.15 | Partition coefficient: (n-octanol/water) | No further relevant information available |
| 9.16 | Auto-ignition temperature | No further relevant information available |
| 9.17 | Decomposition temperature | No further relevant information available |
| 9.18 | Viscosity | No further relevant information available |
| 9.19 | Specific heat value | No further relevant information available |
| 9.20 | Particle size | No further relevant information available |
| 9.21 | Volatile organic compounds content | No further relevant information available |
| 9.22 | % volatile | No further relevant information available |
| 9.23 | Saturated vapour concentration | No further relevant information available |
| 9.24 | Release of invisible flammable vapours and gases | No further relevant information available |
| | **Additional parameters** | |
| 9.25 | Shape and aspect ratio | No further relevant information available |
| 9.26 | Crystallinity | No further relevant information available |
| 9.27 | Dustiness | No further relevant information available |
| 9.28 | Surface area | No further relevant information available |
| 9.29 | Degree of aggregation or agglomeration | No further relevant information available |
| 9.30 | Ionisation (redox potential) | No further relevant information available |
| 9.31 | Biodurability or biopersistence | No further relevant information available |

## 10 Stability and Reactivity

### 10.1 Reactivity

The product is non-reactive under normal conditions of storage and transport.

### 10.2 Chemical stability

Stable under normal conditions of storage and transport.

### 10.3 Conditions to avoid

Avoid heat, sparks, open flames, hot surfaces. Avoid moisture in installation systems.

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### 10.4 Incompatible materials and possible hazardous reactions

Violently oxidises organic material.
In case of combustion, consider the potential danger of toxicity due to the presence of chlorinated or fluorinated polymers in pipes with oxygen at high pressure (<30 bar).
May react violently with flammable materials.
May react violently with reducing agents.
Keep the equipment free of oil and grease

### 10.5 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced

## 11 Toxicological information

Acute Toxicity: no known toxicological effects from this product

Skin corrosion/irritation: Not classified

Serious eye damage/irritation: Not classified

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

### 11.1 Information on routes of exposure

| | |
|---|---|
| Inhaled: | Inhalation of dusts, generated by the material, during the course of normal handling, may be harmful. The inhalation of small particles of metal oxide results in sudden thirst, a sweet, metallic foul taste, throat irritation, cough, dry mucous membranes, tiredness and general unwellness. Headache, nausea and vomiting, fever or chills, restlessness, sweating, diarrhoea, excessive urination and prostration may also occur. |
| Ingestion: | Not normally a hazard due to physical form of product. Considered an unlikely route of entry in commercial/industrial environments |
| Skin Contact: | Skin contact does not normally present a hazard, though individuals may be found who react to substances usually regarded as inert.<br>Molten material is capable of causing burns. |
| Eye: | Fumes from welding/brazing operations may be irritating to the eyes.. |
| Chronic: | Principal routes of exposure include accidental contact with the molten metal and inhalation of fume arising as a consequence of the action of the flame on the rod / wire. Although fume generation rates are generally low, excessive heating of the material, well above its quoted melting point, may result in over-exposure. |

### 11.2 Symptoms related to exposure

*Note: See Section 11.1*

### 11.3 Numerical measures of toxicity

No further information available

### 11.4 Immediate, delayed and chronic health effects from exposure

*Note: See Section 11.1*

### 11.5 Exposure Levels

*Note: See Section 11.1*

### 11.6 Interactive effects

*Note: See Section 11.1*

### 11.7 Data limitations

No further information available.

## 12 Ecological information

### 12.1 Ecotoxicity

No further relevant information available.

### 12.2 Persistence and degradability

No further relevant information available.

### 12.3 Bioaccumulative potential

No further relevant information available.

### 12.4 Mobility in soil

No further relevant information available.

### 12.5 Other adverse effects

No further information available.

## 13 Disposal considerations

### 13.1 Safe handling and disposal methods

Do not discharge into any place where its accumulation could be dangerous, but in atmosphere or well ventilated area. Gas cylinders are not refillable. Dispose according to applicable local and state government regulations.

### 13.2 Disposal of any contaminated packaging

Dispose according to applicable local and state government regulations.

### 13.3 Environmental regulations

Consult State Land Waste Management Authority for more information.

## 14 Transport information

No international regulations or restrictions are applicable.

### 14.1 UN number

UN 1072

### 14.2 Proper shipping name

OXYGEN COMPRESSED

### 14.3 Transport hazard class(es)

2.2 + 5.1

| | |
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### 14.4 Packing group

No further relevant information available

### 14.5 Environmental hazards

No further relevant information available

### 14.6 Special precautions during transport

No further relevant information available

### 14.7 Hazchem Code

2S

### 14.8 Hazchem Code

Sea Transport
Class / Div. (Sub. risk(s)): 2.2 (5.1)
Emergency Schedule (EmS) – Fire: F-C
Emergency Schedule (EmS) – Spillage: S-W

## 15 Regulatory information

### 15.1 Safety, health and environmental regulations specific for the product in question

Regulations of each country are applied to substances / mixtures.

| **Australian Inventory of Chemical Substances** | |
|---|---|
| 7782-44-7 | Oxygen |

### 15.2 Poisons Schedule number

A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

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## 16 Other information

Training advice: Ensure that user is aware of the potential hazards and knows what to do in the event of an accident or an emergency.

### 16.1 Date of preparation or review

5th December, 2025

### 16.2 Key abbreviations or acronyms used

BEI - Biological Exposure Indices

GHS - Globally Harmonized System of classification and labelling of chemicals.

IARC - International Agency for Research on Cancer

NTP - National Toxicology Program

PPE - Personal Protection Equipment

SUSMP - Standard for the Uniform Scheduling of Medicines and Poisons

TLVs - Threshold Limit Value

WTIA – Welding Technology Institute of Australia

Dynaweld Industrial Supplies Pty Ltd requires that all customers read this safety data sheet carefully so as to be informed about the risks implied in the use of the product, and provide any person involved with a copy of the same and/or adequate training on the use of the product.

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