

Safety Data Sheet

according to WHS Regulations

Printing date 20.01.2022

Revision: 20.01.2022

1 Identification

Product Name: OXYGEN**Recommended Use of the Chemical and Restriction on Use:** Industrial and professional use.**Details of Manufacturer or Importer:**

Tesuco Pty Limited
Unit 12
110-120 Silverwater Road,
Silverwater NSW 2128

Phone Number: +61 2 9737 9937**Emergency telephone number:** National Poison Information Centre: 13 11 26

2 Hazard(s) Identification

Hazardous Nature:

Not classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition).



flame over circle

Oxidising Gases 1

H270 May cause or intensify fire; oxidiser.



gas cylinder

Gases Under Pressure (Compressed gas) H280 Contains gas under pressure; may explode if heated.

Signal Word Danger**Hazard Statements**

H270 May cause or intensify fire; oxidiser.

H280 Contains gas under pressure; may explode if heated.

Precautionary Statements

P220 Keep/Store away from clothing/combustible materials.

P244 Keep valves and fittings free from oil and grease.

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

P410+P403 Protect from sunlight. Store in a well-ventilated place.

3 Composition and Information on Ingredients

Chemical Characterization: Mixtures**Description:** Mixture of substances listed below with nonhazardous additions.**Hazardous Components:**

7782-44-7	Oxygen	≥99.99%
	Oxidising Gases 1, H270; Gases Under Pressure (Compressed gas), H280	

4 First Aid Measures

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if breathing problems develop.

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Skin Contact: No adverse effects are expected.**Eye Contact:** No adverse effects are expected.**Ingestion:** Ingestion is not considered a potential route of exposure.**Symptoms Caused by Exposure:**

Inhalation: Continuous inhalation of concentrations >75% may cause nausea, dizziness, respiratory difficulty and convulsions.

5 Fire Fighting Measures

Suitable Extinguishing Media: Use fire extinguishing methods suitable to surrounding conditions.**Specific Hazards Arising from the Chemical:**

May cause or intensify fire; oxidiser. This product supports combustion.

Closed containers may explode when exposed to extreme heat. Containers close to fire should be removed if safe to do so. Use water spray to cool fire exposed containers.

Keep away from reducing agents, combustible materials, organic material, oil and grease.

Special Protective Equipment and Precautions for Fire Fighters:

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

6 Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:

Wear approved self-contained breathing apparatus and full protective clothing. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation.

Environmental Precautions:

In the event of a major spill, prevent spillage from entering drains or water courses.

Methods and Materials for Containment and Cleaning Up:

Ensure adequate ventilation. If the leakage cannot be stopped, move the container outdoors in a isolated area and empty in the atmosphere.

7 Handling and Storage

Precautions for Safe Handling:

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours. Use only outdoors or in a well-ventilated area.

Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

Conditions for Safe Storage:

Store in a cool, dry and well ventilated area. Protect from direct sunlight. Do not expose to temperatures exceeding 50 °C. Ensure adequate ventilation. Keep away from reducing agents, combustible materials, organic material, oil and grease. Take care when handling containers to avoid physical damage to the cylinder. Do not allow backfeed into the cylinder. Do not allow suck back of water into the cylinder. Do not completely empty the cylinder.

8 Exposure controls and personal protection

Exposure Standards:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

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Engineering Controls: Ensure adequate ventilation of the working area.**Respiratory Protection:**

Respiratory protection is not required under normal use conditions.

Use an approved vapour respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapour, inadequate ventilation, development of respiratory tract irritation) and engineering controls are not feasible. See Australian Standards AS/NZS 1715 and 1716 for more information.

Skin Protection:

Leather, wool or aramid blend gauntlets. See Australian/New Zealand Standard AS/NZS 2161 for more information.

Occupational protective clothing (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

Eye and Face Protection:

Eye and face protectors for protection against gas. See Australian/New Zealand Standard AS/NZS 1337.

9 Physical and Chemical Properties

Appearance:

Form:	Compressed gas
Colour:	Colourless
Odour:	Odourless
Odour Threshold:	Not applicable
pH-Value:	No information available
Melting point/freezing point:	-219 °C
Initial Boiling Point/Boiling Range:	-183 °C
Flash Point:	Not applicable
Flammability:	Contact with combustible material may cause fire.
Auto-ignition Temperature:	No information available
Decomposition Temperature:	No information available
Explosion Limits:	
Lower:	No information available
Upper:	No information available
Vapour Pressure:	Not applicable
Density:	
Relative Density at 20 °C:	1.141
Vapour Density at 20 °C:	1.105 g/cm ³
Solubility in Water at 15 °C:	39 mg/L
Additional Information:	Critical temperature is -118.6 °C (50.43 bar)

10 Stability and Reactivity

Possibility of Hazardous Reactions:

May cause or intensify fire; oxidiser.

May react violently with combustible materials and reducing agents.

Chemical Stability: Stable at ambient temperature and under normal conditions of use.

Conditions to Avoid: Extreme temperatures.

Incompatible Materials: Reducing agents, combustible materials, organic material, oil and grease.

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Hazardous Decomposition Products: No hazardous decomposition products known.

11 Toxicological Information

Toxicity:**Acute Health Effects****Inhalation:**

Continuous inhalation of concentrations >80% may cause nausea, dizziness, respiratory difficulty and convulsions.

Skin: Skin contact may cause severe cold burns.

Eye: Eye contact may cause severe cold burns.

Ingestion: Ingestion is not considered a potential route of exposure.

Skin Corrosion / Irritation: Based on classification principles, the classification criteria are not met.

Serious Eye Damage / Irritation: Based on classification principles, the classification criteria are not met.

Respiratory or Skin Sensitisation: Based on classification principles, the classification criteria are not met.

Germ Cell Mutagenicity: Based on classification principles, the classification criteria are not met.

Carcinogenicity: This product does NOT contain any IARC listed chemicals.

Reproductive Toxicity: Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Single Exposure:

Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Repeated Exposure:

Based on classification principles, the classification criteria are not met.

Aspiration Hazard: Based on classification principles, the classification criteria are not met.

Chronic Health Effects: No information available

Existing Conditions Aggravated by Exposure: No information available

Additional toxicological information: No information available

12 Ecological Information

Ecotoxicity: May cause damages to vegetation due to freezing.

Aquatic toxicity: No information available

Persistence and Degradability: No information available

Bioaccumulative Potential: No information available

Mobility in Soil: No information available

Other adverse effects: No information available

13 Disposal considerations

Disposal Methods and Containers: Dispose according to applicable local and state government regulations.

Special Precautions for Landfill or Incineration:

Please consult your state Land Waste Management Authority for more information.

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14 Transport information

UN Number	UN1072
ADG, IMDG, IATA	
Proper Shipping Name	OXYGEN, COMPRESSED
ADG, IMDG, IATA	
Dangerous Goods Class	
ADG Class:	2.2
Subsidiary Risk:	5.1
Packing Group:	Not applicable
EMS Number:	F-C,S-W
Hazchem Code:	2S
Special Provisions:	355
Limited Quantities:	0
Packagings & IBCs - Packing Instruction:	P200

15 Regulatory information

Australian Inventory of Chemical Substances:

7782-44-7 Oxygen

Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:
Not Scheduled.

16 Other information

Date of Preparation or Last Revision: 06.03.2017**Prepared by:** MSDS.COM.AU Pty Ltdwww.msds.com.au

Abbreviations and acronyms:

ADG: Australian Dangerous Goods
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 IARC: International Agency for Research on Cancer
 STEL: Short Term Exposure Limit
 TWA: Time Weighted Average
 NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)
 Oxidising Gases 1: Oxidising gases, Hazard Category 1
 Gases Under Pressure (Compressed gas): Gases under pressure – Compressed gas

Disclaimer

This SDS is prepared in accord with the Safe Work Australia document "Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - February 2016"

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