

OXYGEN (Compressed)

SAFETY DATA SHEET

(SDS Number - PGC 0042017)

Effective Date: July 2022

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product Identifier

PRODUCT NAME: Oxygen, Compressed

SYNONYMS: Oxygen, Oxygen Compressed

1.2 <u>Uses and uses advised against</u> Uses: Combustion, Oxidising Agent

1.3 Details of the supplier of the product

Pacific Gas Pty Limited, 22-26 Cumberland Drive Seaford, VIC, 3198

Contact Telephone: (61) 408 350 180

Email: info@pacgas.com.au

1.4 Emergency telephone number(s) Contact Telephone: (61) 408 350 180

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

GHS classification(s) Gases Under Pressure: Liquefied gas Aquatic Toxicity (Chronic): Category 4

2.2 Label elements

Signal word: DANGER

Pictogram(s)





Hazard statement(s)

H280: Contains gas under pressure; may explode if

heated

H270: May cause or intensify fire; oxidizer

Prevention statement(s)

P220: Keep/Store away from clothing/incompatible

materials/combustible materials.

P244: Keep reduction valves free from grease and oil.

Response statement(s)

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

Storage Statement(s)

P410 and P403: Protect from sunlight. Store in a

well-ventilated place

Disposal Statement(s)

None allocated

2.3 Other hazards

No information provided.

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances / Mixtures

Ingredient	CAS No	EC	Percentage
		Number	
Oxygen	7782-44-7	231-956-9	99.5%

4. FIRST AID MEASURES

4.1 Description of First Aid Measures

EYE CONTACT: Not Applicable.

INHALED: Remove person to fresh air. If not breathing, administer artificial respiration. If breathing is difficult, obtain medical attention.

SKIN ABSORPTION: Not Applicable. **INGESTION:** Considered unlikely.

FIRST AIDE FACILITIES: No information provided. 4.2 Most important symptoms and effects, both acute and delayed

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

4.3 Immediate medical attention and special treatment needed

Treat for hyperoxia

5. FIRE FIGHTING MEASURES

5.1 Extinguishing Media:

Use an extinguishing agent suitable for the surrounding fire. Use water spray or fog to cool cylinders or containers in the adjacent area.

5.2 SPECIAL HAZARDS ARISING FROM SUBSTANCE OR MIXTURE:

Non flammable - oxidising agent. Supports combustion and may cause fire/explosion in contact with incompatible substances, strong acids, reducing agents, combustibles and flammables. Materials which burn in air, will burn more vigorously in oxygen enriched atmospheres.

5.3 Advice for firefighters

Shut off source of oxygen if possible. Extinguish fire only if flow of oxygen can be stopped. Keep adjacent cylinders cool by spraying large amounts

of water until the fire burns itself out and the cylinders are cool.

Contact with combustible material may cause fire. This material increases the risk of fire and may aid combustion. In a fire or if heated, a pressure increase will occur and the container may burst or explode.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Cylinders may rupture violently if sidewalls are exposed to direct flame impingement.

Cylinders exposed to fire should not be moved until they have reached ambient temperature in the event internal decomposition is taking place.

5.4 Hazchem Code

2S

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

6. ACCIDENTAL RELEASE MEASURES

<u>6.1 Personal precautions, protective equipment and emergency procedures</u>

If cylinder is leaking and you are unable to stop the leak, evacuate personnel from the area. Contact your gas supplier for expert advice. Use of PPE as detailed in Section 8.

6.2 Environmental precautions

Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.

6.3 Methods of cleaning up

Carefully move material to a well ventilated remote area, then allow gas to escape to atmosphere. Do not attempt to repair leaking valve or cylinder safety devices.

7. HANDLING AND STORAGE

7.1 Precautions for Safe Handling

Use of safe work practices to avoid inhalation. Protect cylinders from physical damage; do not drag, roll, slide, or drop. Use a suitable hand truck for cylinder movement. Only use gas regulators / equipment suitable for the cylinder gas type and working pressure. Close the cylinder valve after each use.

7.2 Conditions for safe storage, including any incompatibilities

Store and use with adequate ventilation in a secure area; below 45°C, in an area constructed of noncombustible material with firm level floor. Cylinders should be stored upright with valve protection cap in place and firmly secured to prevent falling or being knocked over. There should be no sources of ignition in the area.

7.3 Specific end use(s)
No information provided

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredient	Reference	TWA		STEL	
		ppm	mg/m 3	ppm	mg/m³
Carbon Dioxide	SWA (AUS)	5000	9000	30000	54000

Biological limits

No biological limit values have been entered for this product

8.2 Exposure controls

Provide adequate natural or explosion-proof mechanical ventilation to minimize or eliminate exposure. Confined areas (e.g. tanks) should be adequately ventilated or gas tested.

PPE

Eye / Face	safety glasses	
Hands Wear	Chemical resistant impervious	
	gloves	
Body Wear	appropriate safety boots	
Respiratory	If in a confined area, use an air	
	purifying or air fed respirator	
	complying with an approved	
	standard	







9. PHYSICAL AND CHEMICAL PROPERTIES

<u>9.1 Information on basic physical and chemical properties</u>

Appearance	Colourless gas,
ODOUR Odour	Odourless
Flammability	Non Flammable
Flash point	Not relevant
Boiling point	-183°C
Melting point	Not Available
Evaporation rate	Not Available
рН	Not Applicable
Vapour density	1.105 (Air = 1)
Specific gravity	Not Applicable
Solubility (water)	Insoluble
Vapour pressure	Not Available
Upper explosion limit	Not relevant
Lower explosion limit	Not relevant
Partition coefficient	Not Available
Autoignition temperature	Not Available
Decomposition	Not Available
temperature	
Viscosity	Not Available
Explosive properties	Not Available
Oxidising properties	Oxidising Gas
Odour threshold	Not Available

9.2 Other information

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10. STABILITY AND REACTIVITY

10.1 Reactivity

No specific test data related to reactivity for this product is available. It is important to carefully review all information provided below.

10.2 Chemical stability

Stable under recommended conditions of storage.

10.3 Possibility of hazardous reactions

Hazardous reactions will not occur under normal

conditions of storage.

10.4 Conditions to avoid

Avoid shock, friction, heavy impact and heat sources.

10.5 Incompatible materials

Compatible with most commonly used materials.

10.6 Hazardous decomposition products

This material will not decompose to form a hazardous product other than that already present.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Based on available data, the
classification criteria are not
met.
Not irritating to the skin
Not irritating to the eye
Not classified as causing skin or
respiratory sensitisation
No significant ingredient is
classified as a mutagen
No significant ingredient is
classified as a as a carcinogen
No significant ingredient is
classified as a a reproductive
toxin
Not classified as causing organ
damage from single exposure
Continuous inhalation of
concentrations higher than 75%
may cause nausea, dizziness,
respiratory difficulty and
convulsion
Not classified as causing
aspiration

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Not available.

12.2 Persistence and degradability

Not available

12.3 Bio accumulative potential

Not available

12.4 Mobility in soil

No information provided.

12.5 Other adverse effects

Product is not harmful to the environment

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste disposal: Do not attempt to dispose of residual or unused quantities. Return cylinder to supplier. Unserviceable cylinders should be returned to the supplier for safe and proper disposal.

Legislation: Dispose of in accordance with relevant

local legislation

14. TRANSPORT INFORMATION

CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE





	V /		
	LAND	SEA	AIR
	TRANSPORT	TRANSPORT	TRANSPORT
	(ADG)	(IMDG /	(IATA /
		IMO)	ICAO)
UN Number	1072	1072	1072
Proper	Oxygen,	Oxygen,	Oxygen,
Shipping	Compressed	Compressed	Compressed
Name			
Transport	5.1, 2.2	5.1, 2.2	5.1, 2.2
Hazard			
Class			
Packing	None	None	None
Group	allocated	allocated	allocated

14.5 Environmental hazards

No information provided.

14.6 Special precautions for user

Hazchem code: 2S GTEPG: 2C6 EMS: F-C, S-W

Other information: Cylinders should be transported in a secure position, in a well ventilated vehicle. The transportation of compressed gas cylinders in automobiles or in closed-body vehicles can present serious safety hazards and should be discouraged.

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Poison	A poison schedule number has not		
Schedule	been allocated to this product using the		
	criteria in the Standard for the Uniform		
	Scheduling of Medicines and Poisons		
	(SUSMP).		
Classifications	Safework Australia criteria is based on		
	the Globally Harmonised System (GHS)		
	of Cla	ssification and Labelling of	
	Chem	nicals.	
	The c	lassifications and phrases listed	
	below are based on the Approved		
	Criteria for Classifying Hazardous		
	Substances [NOHSC: 1008(2004)].		
Hazard Codes	0	Oxidising	
Risk Phrases	R8	Contact with combustible	
		material may cause fire	
Safety	S9	Keep container in a well	
Phrases		ventilated place.	
	S17	Keep away from combustible	
		material	
	S36	Wear suitable protective	
		clothing	
Inventory	AUST	AUSTRALIA: AICS (Australian Inventory	
Listings	of Chemical Substances) All		
	components are listed on AICS, or are		
	exempt		

Other Information	PERSONAL PROTECTIVE EQUIPMENT GUIDELINES: The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as form of product, method of
	application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of
	personal protective equipment is made.
	HEALTH EFFECTS FROM EXPOSURE: It should be noted that the effects from exposure to this product will depend on several factors including: form of product; frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

INFORMATION PREPARED BY:

Pacific Gas Pty Limited, 22-26 Cumberland Drive, Seaford, VIC, 3198



16. OTHER INFORMATION