

Rent Free Gas – Phone 1300 792 603

Oxygen - Material Safety Data Sheet

SUPPLIER

Supplier Name: Rent Free Gas
Address: 1/131 Richmond Rd, RICHMOND SA 5033
Telephone: (1300 792 603
Emergency: 24hr EMERGENCY TELEPHONE No. 1300 792 603
Emergency: DIAL 000
Website: www.rentfreegas.com.au

HAZARDS IDENTIFICATION

**NOT CLASSIFIED AS HAZARDOUS ACCORDING TO NOHSC CRITERIA
CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE**

COMPOSITION / INFORMATION ON INGREDIENTS

Product Name: Oxygen.
Chemical Name: Oxygen, compressed
Manufacturer's Code:
UN Number: 1072
DG Class: 2.2 Non-flammable gas, non-toxic gas
Packaging Group: Not applicable
Subsidiary Risk(s): 5.1
Hazchem Code: 2[S]
EPG No: 2C6
Poisons Schedule: None Allocated
Uses: Industrial Applications

PHYSICAL DESCRIPTION & PROPERTIES:

Appearance: Colourless, Odourless gas.
Boiling Point: -183°C
Melting Point: -219°C
Vapour Pressure: Not Available
Evaporation Rate: Not Available
Odour: Odourless
Vapour Density: Not Available
Weight per ml: 1.02g
Flash Point: Not Relevant
Flammability Limits: Non Flammable
Auto-Ignition Temperature: Not Available

OTHER PROPERTIES:

Non flammable - oxidising agent. Oil/grease can spontaneously ignite at low temperatures in oxygen enriched atmospheres. Many other materials, which do not burn in air, will burn vigorously in pure oxygen.

INGREDIENTS:

Oxygen 7782-44-7 100%

HEALTH HAZARD INFORMATION

HEALTH EFFECTS

Summary: Non-irritant, non-toxic gas. The respiratory and central nervous systems are primarily affected by gaseous oxygen. No health effects have been observed in humans exposed to concentrations up to 80% oxygen for a few hours or up to 50% for 24 hours. At pressures above 1 atmosphere hyperoxia may appear after 2 to 6 hours. Chronic exposure at normal or elevated pressure may result in severe thickening and scarring of lung tissues. Not carcinogenic or mutagenic.
Swallowed: Due to product form and application, ingestion is considered unlikely.
Skin: Exposure is considered unlikely. Skin irritation is not anticipated.
Eyes: Exposure is considered unlikely.
Inhaled: As the amount of oxygen inhaled is increased chest tightness, burning pains and coughing spasms will occur. Other symptoms of hyperoxia include cramps, nausea, dizziness, hypothermia, amblyopia (loss of vision), bradycardia, fainting spells and convulsions capable of causing death.
LD50: No data available

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre **Ph: 131 126**

Swallowed: Due to product form and application, ingestion is considered unlikely.
Skin: Non irritant.
Eyes: None required.
Inhaled: If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.

FIRST AID FACILITIES

Advice to Doctor: Treatment for hyperoxia.

PRECAUTIONS FOR USE

EXPOSURE LIMITS (NOHSC)

Exposure standards: No exposure standard(s) allocated.
Biological limits: No biological limit allocated.
Engineering Controls: No special precautions are normally required when handling this product.

Personal Protection:	Do not breathe concentrated vapour levels. Personal protection to be selected from those recommended below, as appropriate to mode of use, quantity handled and degree of hazard: Self-Contained breathing apparatus (not required under normal conditions of use). Leather gloves or gauntlets Safety Glasses Safety Shoes
Flammability:	Not flammable

SAFETY HANDLING INFORMATION

STORAGE AND TRANSPORT

Storage Temperature:	Should be stored below 45°C
UN Number:	1072 Oxygen Compressed
UN Class:	2.2 Non-flammable, non-toxic gas
Packaging Group:	N/A
Subsidiary Risk(s):	5.1
EPG Number:	2C6
Correct Shipping Name:	Oxygen

Observe requirements of The Australian Code for the Transport of Dangerous Goods by Road and Rail. Observe the Requirement's of State Dangerous Goods (Storage and Handling) Regulations.

STORAGE ADVICE

Do not store near sources of ignition or incompatible materials. Cylinders should be stored below 45°C in a secure area, upright and restrained to prevent cylinders from falling. Cylinders should also be stored in a dry, well ventilated area constructed of non-combustible material with firm level floor (preferably concrete), away from areas of heavy traffic and emergency exits.

SPILLS AND DISPOSAL

If the cylinder is leaking, eliminate all potential ignition sources and evacuate area of personnel. Inform manufacturer/supplier of leak. Wear appropriate PPE and carefully move it to a well ventilated remote area, then allow to discharge. Do not attempt to repair leaking valve or cylinder safety devices.

FIRE/EXPLOSION HAZARD

Flammability:	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.
Fire and explosion:	Temperatures in a fire may cause cylinders to rupture and internal pressure relief devices to be activated. Cool cylinders or containers exposed to fire by applying water from a protected location. Do not approach cylinders or containers suspected of being hot. Remove cool cylinders from the path of the fire if safe to do so. Ensure working area is well ventilated before re-use.
Extinguishing:	Use water fog to cool containers from protected area.

DECOMPOSITION PRODUCTS

Chemical stability	Stable under recommended conditions of storage.
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources.
Material to avoid	Combustible materials such as oil and grease can spontaneously ignite at low temperatures in oxygen enriched atmospheres. Materials which burn in air, will burn more vigorously in oxygen enriched atmospheres. All non-metals must be oxygen compatible. Copper is most commonly used metal. Metals can be ignited and will continue to burn in pure oxygen atmospheres under specific conditions of temperature and pressure.
Hazardous Decomposition	This material will not decompose to form hazardous products other than that already present.
Hazardous Reactions	Polymerization will not occur.
Hazchem Code:	2[S]
Extinguishant:	Use water fog to cool containers from protected area.
Danger of violent reaction or explosion?	Non flammable - oxidising agent. Supports combustion and may cause fire/explosion in contact with incompatible substances.
Protective Clothing:	Protective gloves, Safety Glasses and Safety Shoes
Evacuate?	Yes