

OXYGEN

Material Safety Data Sheet

(Sheet No. 06)

SUPPLIER

Supplier Name: Supagas Pty Ltd
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**Emergency: 24hr EMERGENCY TELEPHONE No. (03) 9883 5623
EMERGENCY SERVICES: DIAL 000**
Website: www.supagas.com.au

IDENTIFICATION

Product Name: Oxygen, compressed
Chemical Name: Oxygen
Manufacturer's Code:
UN Number: 1072 Oxygen, compressed
DG Class: 2.2 Non - flammable gas, non-toxic gas
Packaging Group: Not applicable
Subsidiary Risk(s): 5.1 Oxidiser
Note: Cylinders of compressed oxygen may be labelled with an "Oxidising gas" label instead of class 2.2 and subsidiary risk 5.1 Labels.
Hazchem Code: 2 (S)
EPG No: 2C6
Poisons Schedule: None assigned
Uses: As an oxidant

PHYSICAL DESCRIPTION & PROPERTIES:

Appearance: Colourless gas, slightly soluble in water
Boiling Point: -183 °C
Melting point: -218.4 °C
Vapour Pressure: Not applicable
Volatiles: 100%
Evaporation Rate: Not applicable
Odour: Odourless
Vapour Density: 1.105 @ 25 °C (Air=1)
Weight per ml: Not applicable
Flash Point: None
Flammability Limits: None
Auto-Ignition Temperature: No data

OTHER PROPERTIES:

Soluble in ethanol and other organic liquids. Oxidiser. Will support and enhance combustion.

INGREDIENTS:

Oxygen (7782-44-7)

HEALTH HAZARD INFORMATION

HEALTH EFFECTS

Acute: Swallowed: An unlikely route, unless as a cryogenic liquid.
Skin: No effects reported from the gas. Contact with liquified oxygen will cause

Eyes:	moderate to severe frostbite.
Inhaled:	No effects reported from the gas Normal air contains about 21% oxygen. No effects reported for exposure to 50% oxygen at 1 atmosphere for 24 hours. Exposure to 100% oxygen after 24 hours is reported to have caused dizziness, weakness, muscle and joint pain, sore throat, tingling in arms and legs, numbness, palpitations. Nausea, vomiting, nasal congestion and ear disturbances. Elevated pressures may lead to toxic effects, Including convulsions and coma.
Chronic:	Breathing and repeated exposure to high levels of oxygen at atmospheric pressure may lead to thickening and/or scarring of exposed tissues, including the lungs. Human teratogenic effects reported when administered during pregnancy (between 26th and 39th week)
LD50:	No data found

FIRST AID

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

Swallowed:	Not applicable.
Skin:	If skin contact occurs with liquid oxygen, remove contaminated clothing and flush skin thoroughly with water.
Eyes:	If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.
Inhaled:	Remove from exposure, rest and keep warm. If unconscious, assist breathing.

FIRST AID FACILITIES

Recommended:	None
Advice to Doctor:	Product is Oxygen, compressed. Overexposure to High concentrations of oxygen at elevated pressures May lead to delayed onset of pulmonary oedema. Contact Poisons Information Centre.

PRECAUTIONS FOR USE

EXPOSURE LIMITS

National Occupational Health & Safety Commission (NOHSC) – (Worksafe Australia)	
TLV-TWA:	None assigned
TLV-STEL:	None assigned
Engineering Controls:	Prevent contact with grease and oils. Do not use combustible materials for construction. Always use with a regulator, and pressurise systems slowly. Secure cylinders at all times. Ensure adequate ventilation (same as outdoors) at all times.
Personal Protection:	Avoid exposure to high concentrations of oxygen during pregnancy. Personal protection to be selected from those recommended below, as appropriate to mode of use, quantity handled and degree of hazard: Safety Glasses Safety boots or safety Shoes
Flammability:	Not Flammable. Will support combustion. Contact with combustible materials may cause fire. Combustible materials, such as grease and oils, in contact with oxygen under pressure may cause explosion.

SAFETY HANDLING INFORMATION

STORAGE AND TRANSPORT

Storage Temperature:	Room Temperature
UN Class:	2.2 Compressed gas
Packaging Group:	5.1 Oxidiser
UN Number:	1072 Oxygen, compressed
EPG Number:	2C6
Correct Shipping Name:	Oxygen, compressed

Observe requirements of The Australian Code for the Transport of Dangerous Goods by Road and Rail. Observe the

requirements of State Dangerous Goods (Storage and Handling) Regulations.

STORAGE ADVICE

Store cylinders securely in a cool, well-ventilated area, out of direct sunlight. Keep valves closed, even on empty cylinders upright. Keep away from naked flames and other sources of heat. **No Smoking**. Keep away from flammable or combustible material. Keep away from the oils and grease. Prevent gas from collecting in enclosed or low-lying places. Rotate cylinders in storage to ensure that they are not stored for excessive periods. Protect from physical damage, particularly valves and regulators.

SPILLS AND DISPOSAL

Disposal of small spillage only

CAUTION: Before dealing with spillage take the necessary protective measures, inform others to keep at a safe distance and shut off all possible sources of ignition. Extinguish all naked flames. Switch off all non-flameproof equipment. Shut off pressure regulator or cylinder valve if safe to do so. Isolate cylinder if safe to do so. Relieve system pressure. Disconnect cylinder and remove to a safe, open area. Allow venting to atmosphere. Inform cylinder supplier or emergency services as appropriate. Do not attempt to repair damaged valve or regulators.

FIRE/EXPLOSION HAZARD

Not flammable. Will support combustion. Contact with combustible materials may cause fire. Combustible materials, such as grease and oils, in contact with oxygen under pressure may cause explosion. Compressed gas: exposure to high temperatures, as in a fire, may lead to explosion. Do not approach cylinders suspected of being hot. Cool cylinders exposed to fire with water from a safe location.

DECOMPOSITION PRODUCTS

Oxygen

In case of small fire/explosion use:	Water
In case of major emergency:	
Hazchem Code:	2 (S0)
Extinguishant:	Water fog or fine water spray
Danger of violent reaction or explosion?	Yes
Protective Clothing:	Breathing apparatus and protective gloves for fire only.
Appropriate Measures:	Dilute
Evacuate?	Yes, if cylinders near, or in path of, fire

OTHER INFORMATION

Prevent leaking gas from entering drains or sewers.

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