

PRODUCT INFORMATION

NAME OF THE MEDICINE

MEDICAL AIR

Constituents:

Nitrogen: Chemical structure: $N = N$

CAS No.: 7727-37-9

MW:28.02

Oxygen: Chemical structure: $O = O$

CAS No.: 7782-44-7

MW: 32.00

Argon: Chemical structure: Ar

CAS No.: 7440-37-1

MW: 39.95

DESCRIPTION

Medical Air is a colourless, odourless gas with a molecular weight of 29.0, a boiling point of -194°C (at 101.325 kPa) and a density of 1.225 kg/m^3 (at 15°C and 101.325 kPa).

Medical Air contains approximately 21% Oxygen, 78% Nitrogen and 1% Argon with trace contents of other inert gases (xenon, neon, krypton).

The Nitrogen, Argon and trace gases quoted above are inert, but the Oxygen in air is essential to life for its cellular respiratory function.

Excipients: None

PHARMACOLOGY

Pharmacokinetic properties:

Under conditions of normal atmospheric pressure, the pharmacokinetic effects on air are essentially those of respiration, Oxygen carriage and cellular metabolism.

INDICATIONS

As replacement for atmospheric air. Carrier gas for volatile anaesthetics.

CONTRAINDICATIONS

None.

PRECAUTIONS

Effects on fertility:

None

Use in pregnancy: Medical Air does not adversely affect pregnancy.

Category A: Drugs which have been taken by a large number of pregnant women and women of childbearing age without a proven increase in the frequency of malformations or other direct or indirect harmful effects on the foetus having been observed.

Use in lactation:

Medical Air does not adversely affect lactation.

Paediatric use:

Not applicable.

Use in the elderly:

Not applicable.

Carcinogenicity:

Not applicable.

Genotoxicity:

Not applicable.

Interactions with other medicines:

None.

Effect on laboratory tests

None.

Effects on Ability to Drive and Use Machinery

None.

ADVERSE EFFECTS

None.

DOSAGE AND ADMINISTRATION

Use in adults, including the elderly and children

For respiratory use.

OVERDOSAGE

Not applicable.

PRESENTATION AND STORAGE CONDITIONS

Medical Air is supplied in a gas cylinder with a pin index valve, suitable for the filling pressure applied for the product.

The types of cylinders normally used are specified in the following table.

Cylinder Size	Water Volume (litres)	Fill Pressure (bar)	Fill Volume (m ³)
C	2.8	190	0.55
D	9.5	190	1.8
E	23	176	4.0
G	50	176	8.3
6 Pack*	300	190	55
12 Pack**	600	190	110

* 6 Pack (bundles) of 6x 50 l cylinders

** 12 Pack (bundles) of 12x50 l cylinders

Notes:

Cylinders conform to AS 2030.1

Cylinder valves conform to AS 2473.1 and AS 2473.3

The cylinders are colour coded conforming to AS 4484.

The colour code for medical air is a white body with a black and white triangle shoulder (plus 2 x "N").

Instructions for Use/Handling

Care is needed in the handling and use of **Medical Air** gas cylinders. Refer to the respective S.D.S and the "caution" section of the product label.

Preparation for use

1. Cylinder valves should be opened momentarily prior to use to blow any foreign matter out of the outlet.
2. Ensure that the connecting face on the yoke, manifold or regulator, etc., is clean and the sealing washer or 'O'-ring, where fitted, is in good condition.
3. Cylinder valves must be opened slowly.
4. Only the appropriate regulator should be used for the particular gas concerned
5. Cylinder valves and any associated equipment must never be lubricated and must be kept free from oil and grease.

Leaks

1. Should gas leaks occur, this will usually be evident by a hissing noise.

2. Leaks can be found by spraying the suspected area (cylinder inlet and / or valve spindle) with an approved gas leak test solution.
3. There are no user serviceable parts associated with the valves fitted, so do not attempt to correct any problems with leakage from any part of the valve itself. Quarantine leaking gas cylinders (in a well ventilated area), apply a warning sticker and, when empty, return them to Coregas for serving / repair.
4. Sealing or jointing compounds must never be used to deal with a gas leak.
5. Never use excessive force when connecting equipment to cylinders.

Handling of Cylinders

1. Cylinders should be handled with care and not knocked or allowed to fall.
2. Cylinders should only be moved with the appropriate size and type of cylinder trolley (pallet jack).
3. When in use, cylinders should be firmly secured to suitable restraining equipment.
4. Cylinders containing liquefiable gas must always be used, transported and stored in vertical position.
5. Medical gases must only be used for medicinal purposes.
6. Smoking and naked lights must not be allowed within the vicinity of cylinders or pipeline outlets.
7. After use, cylinder valves should be closed using moderate force only and the pressure in the regulator, manifold, etc. released.
8. Immediately return used cylinders to the used cylinder store for return to Coregas.

STORAGE:

Medical Air cylinders should be kept out of the reach of children.

Air supports combustion.

The normal precautions required in the storage of medical gas cylinders as described below are applicable.

- Cylinders should be stored under cover (not subjected to extremes of heat or cold) and kept dry and clean.
- Cylinders should not be stored near combustible materials or exposed to artificial sources of heat.
- Warning notices prohibiting smoking and naked lights must be posted clearly.
- Emergency services should be advised of the location and nature of the cylinder store.
- Medical cylinders should be segregated by medical gas type and identified as such within the store.

- Full and empty cylinders should be stored separately. Full cylinders should be used on an “first in / first out” basis.
- Cylinders must not be re-painted. Cylinder markings must not be obscured. Product labels must not be removed. Foreign objects and attachments must not be affixed when returning cylinders.
- All gas cylinders should be stored vertically. C size cylinders are traditionally as well stored horizontally.
- Precautions should be taken to protect cylinders from theft and / or interference.

NAME AND ADDRESS OF THE SPONSOR

Coregas Pty Ltd
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Yennora NSW 2161
Australia

POISON SCHEDULE OF THE MEDICINE

Unscheduled.

DATE OF APPROVAL

TGA approval: 21/10/1991.

Date of first inclusion in the Australian Register of Therapeutic Goods: 21/10/1991

Date of most recent amendment: 30/05/2013.

AUST R: 27160.