

Air Liquide New Zealand Limited
19 Maurice Road
Penrose
Auckland 1061

Phone: (09) 622 3880
Fax: (09) 622 3881
Emergency: 0800 156 516

MATERIAL SAFETY DATA SHEET

Product Name:

AIR, Compressed

Issued: May 2014

Revision: 9

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Label 2.2 : Non flammable, non toxic gas.

IDENTIFICATION

Chemical Name: Air
Synonyms: None
UN Number: 1002
Poisons Schedule Number: None allocated
G.T. EPG. (Group Text. Emergency Procedure Guide): AS 1678 2C5

Use: Air Sustains Life, Supports Combustion.

HAZARDS IDENTIFICATION

Dangerous Goods Class and Subsidiary Risk: 2.2
HSNO Classification: Not Hazardous

Hazard Statement: Contains gas under pressure; may explode if heated.

Precautionary Statements: Read label before use.
Read Safety Data Sheet before use.
Protect from sunlight.
Store in a well-ventilated place.

COMPOSITION

Ingredients	CAS Number	Proportion
Chemical Entity		
Oxygen	7782-44-7	21%
Nitrogen	7727-37-9	78%
Argon	7440-37-1	1%

FIRST AID MEASURES

Health Effects

Acute

Swallowed: Not applicable to gases.
Eye: Not irritating to the eye.
Skin: Not irritating to the skin.
Inhaled: No hazard.

Chronic

No hazard.

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First AidInhalation: Not hazardous.Skin Contact: No effect on living tissue.Eye Contact : No effect on living tissue.**FIRE FIGHTING MEASURES****Flammability:**

Air is Non- Flammable but supports combustion of common combustible materials.

Fire/Explosion Hazard:

Air is Non-Flammable, but container may rupture when heated. Move cylinders from fire if safe to do so. Cool cylinders with water from a protected location. If unable to keep cylinders cool, evacuate area.

Extinguishing Media:

Water fog and water stray.

Hazchem Code:

2 T

Recommended Protective Clothing:

Breathing apparatus need only be worn if the substance is involved in a fire. In confined space use self-contained breathing apparatus.

ACCIDENTAL RELEASE MEASURES**Personal Protection:**

Personnel engaged in the movement and use of cylinders shall be provided with safety footwear and leather or PVC gloves. Full cover overalls and safety glasses recommended.

Spills and Disposal:

Not Applicable.

Reference Guide:

Standard SNZ HB 76:2008 Dangerous Goods – Initial Emergency Response Guide.

General:

Only experienced and properly instructed personnel should handle compressed gases. Cylinder contents and identification labels provided by the supplier must not be removed or defaced. Colour coding should not be the only criterion used for content identification.

HANDLING AND STORAGE**Handling****Flammability:**

Air is non- flammable but supports combustion of common combustible materials.

General:

Only experienced and properly instructed personnel should handle compressed gases. Cylinder contents and identification labels provided by the supplier must not be removed or defaced. Colour coding should not be the only criterion used for content identification.

Approved Handlers:

Approved handlers are not required, non hazardous gas (HSNO).

Storage**Separation:**

Storage of compressed gas cylinders shall be in compliance with New Zealand regulations. Cylinders shall be stored in a cool, dry, well ventilated area out of direct sunlight and away from heat and ignition sources. No part of cylinders shall be exposed to temperatures above 50°C. Avoid any contact with oil or grease particularly to the cylinder valve. Do not allow backfeed into the container. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Cylinders shall be stored upright on a level, fireproof floor, secure in position and protected from damage. Full cylinders shall be stored separately from empties. Cylinders should be moved by hand-truck or cart designed for that purpose.

Spills and Disposal:

Not Applicable.

EXPOSURE CONTROLS / PERSONAL PROTECTION**Exposure Standards:**

Not applicable to air.

Engineering Controls:

Equipment employed shall be designed to withstand process pressure and temperature.

Personal Protection:

Personnel engaged in the movement and use of cylinders shall be provided with safety footwear and leather or PVC gloves. Full cover overalls and safety glasses recommended.

PHYSICAL AND CHEMICAL PROPERTIES**Physical Properties**

Appearance:	Colourless, Odourless, Tasteless	Flashpoint:	Non Flammable
Boiling Point:	Not Applicable	Flammability Limits:	Non Flammable
Vapour Pressure:	Not Applicable	Solubility in Water (at 0°C):	0.0286 m ³ /kg

Other Properties

Relative Density (Air = 1):	1.00	Density of Gas (101.3 kPa, 15°C):	1.225 kg/m ³
Molecular Weight:	28.959	Critical Temperature:	Not applicable

STABILITY AND REACTIVITY**Flammability:**

Air is non- flammable but supports combustion of common combustible materials.

Materials Compatibility:

Not applicable.

TOXICOLOGY INFORMATION

Stable under normal conditions.

ECOLOGICAL INFORMATION

No known toxicological effects from this product.

DISPOSAL CONSIDERATIONS

No known ecological damage caused by this product.

TRANSPORT INFORMATION

UN Number:	1002
Proper Shipping Name:	AIR, COMPRESSED
Dangerous Goods Class and Subsidiary Risk:	2.2
Packing Group:	Not applicable
Hazchem Code:	2 T
Other Information:	Avoid transport on vehicles where the load is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers: <ul style="list-style-type: none">• Ensure that containers are firmly secured.• Ensure cylinder valve is closed and not leaking.• Ensure there is adequate ventilation.• Compliance with applicable regulations.

REGULATORY INFORMATION

ERMA Register Approval No: HSR001458

HSNO Controls: Hazardous Substances (Compressed Gases) Regulations 2004.
Hazardous Substances (Tank Wagon and Transportable Containers) Regulations 2004.

Approved Handlers:
Approved handlers are not required, non hazardous gas (HSNO).

OTHER INFORMATION

Compressed Air is supplied in high pressure cylinders.

Cylinder Colour: Industrial: AS 4484-2004 Pewter PMS 431U/Black
Medical: AS 4484-2004 Green Grey N32
Black & White Shoulder Quadrants

Cylinder Valve Outlet: Industrial: AS 2473 Type 10, AS 2473 Type 33
Medical: AS 2472 Fig. 10

References:

- . L'Air Liquide Gas Encyclopaedia - Elsevier Scientific Publishing Co. Amsterdam
- . Cheminfo Database
- . New Zealand Code for the Transport of Dangerous Goods by Road and Rail
- . NHMRC Threshold Limit Values - Commonwealth Dept Health
- . SAA Safe Storage and Handling Information Cards
- . SAA Emergency Procedure Cards
- . Matheson Gas Data Book, 6th Edition, Matheson 1980
- . Canadian Liquid Air Montreal, Canada - Gas Products Safety Data Sheets
- . AS 1894 Code of Practice for Safe Handling of Cryogenic fluids
- . NZCIC Code of Practice - Preparation of Safety Data Sheets

END MSDS

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

This MSDS has been prepared in accordance with NZCIC Code of Practice – Preparation of Safety Data Sheets

Air Liquide regional offices contact details on following page

Regional Offices

Auckland

PO Box 12846
19 Maurice Road
Penrose
Phone: 09 622 3888
Fax: 09 622 3882

Hamilton

PO Box 10 394
2 Tawn Place, Pukete
Phone: 07 849 2969
Fax: 07 348 9063

Mt Maunganui

89 Poturi Street, Tauriko
Tauranga 3110
Phone: 07 574 8475
Fax: 07 574 8476

Palmerston North

PO Box 10 010
5 Connolly Place
Palmerston North
Phone: 06 355 5216
Fax: 06 354 7104

Christchurch

PO Box 16453
7 Canterbury St
Hornby
Phone: 03 344 6033
Fax: 03 344 6031

**Emergency 24hr Phone
Number 0800 156 516**