

Compressed Air**AL000A**

2.2 : Non flammable, non toxic gas.

Warning**SECTION 1. Identification of the substance/mixture and of the company/undertaking****Product identifier**

Trade name : Compressed Air
SDS Nr : AL000A
Registration-No. : Listed in Annex IV / V REACH, exempted from registration.

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses : Industrial and professional. Perform risk assessment prior to use. Purging. Laboratory use
Contact supplier for more application information.

Details of the supplier of the safety data sheet

Company identification : AIR LIQUIDE (PTY) LTD
Crn Vereeniging Road & Andre Marais Street
Alrode, Alberton
Gauteng SOUTH AFRICA
Tel. : +27 87 288 1100

E-Mail address (competent person) : scr.sales@airliquide.com

Emergency telephone number

Emergency telephone number : +27 87 288 1100

SECTION 2. Hazards identification**Classification of the substance or mixture****Hazard Class and Category Code Regulation EC 1272/2008 (CLP)**

• Physical hazards : Gases under pressure - Compressed gas - Warning - (CLP : Press. Gas) - H280

Classification EC 67/548 or EC 1999/45

: Not classified as dangerous substance/mixture.
Not included in Annex VI.
No EC labelling required.

Label elements**Labelling Regulation EC 1272/2008 (CLP)**

• Hazard pictograms



• Hazard pictograms code : GHS04
• Signal word : Warning

Compressed Air**AL000A****SECTION 2. Hazards identification (continued)**

- Hazard statements : H280 - Contains gas under pressure; may explode if heated.
- Precautionary statements
 - Storage : P403 - Store in a well-ventilated place.

Other hazards

: None.

SECTION 3. Composition/information on ingredients**Substance / 3.2. Mixture**

Mixture.

Contains no other components or impurities which will influence the classification of the product. * 1: Listed in Annex IV / V REACH, exempted from registration.

* 2: Registration deadline not expired.

* 3: Registration not required: Substance manufactured or imported < 1t/y

Full text of R-phrases see chapter 16. Full text of H-statements see chapter 16

SECTION 4. First aid measures**Description of first aid measures**

- Inhalation : Adverse effects not expected from this product.
- Skin contact : Adverse effects not expected from this product.
- Eye contact : Adverse effects not expected from this product.
- Ingestion : Ingestion is not considered a potential route of exposure.

Most important symptoms and effects, both acute and delayed

: No effect on living tissue.

Indication of any immediate medical attention and special treatment needed

: None.

SECTION 5. Fire-fighting measures**Extinguishing media**

Extinguishing media

- Suitable extinguishing media : All known extinguishants can be used.

Special hazards arising from the substance or mixture

- Specific hazards : Exposure to fire may cause containers to rupture/explode.
- Hazardous combustion products : None.

Advice for fire-fighters

- Specific methods : Coordinate fire measure to the surrounding fire. Cool endangered containers with water spray jet from a protected position. Do not empty contaminated fire water into drains.
- Special protective equipment for fire fighters : None.

Compressed Air**AL000A****SECTION 6. Accidental release measures****Personal precautions, protective equipment and emergency procedures**

: None.

Environmental precautions

: None.

Methods and material for containment and cleaning up

: None.

Reference to other sections

: See also sections 8 and 13.

SECTION 7. Handling and storage**Precautions for safe handling****Safe use of the product**

: Only experienced and properly instructed persons should handle gases under pressure. The product must be handled in accordance with good industrial hygiene and safety procedures.
Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt.
Do not smoke while handling product.
Ensure the complete gas system was (or is regularly) checked for leaks before use.

Safe handling of the gas receptacle

: Refer to supplier's container handling instructions.
Suck back of water into the container must be prevented.
Do not allow backfeed into the container.
Protect cylinders from physical damage; do not drag, roll, slide or drop.
When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders.
Leave valve protection caps in place until the container has been secured against either a wall or bench or placed in a container stand and is ready for use.
If user experiences any difficulty operating cylinder valve discontinue use and contact supplier.
Never attempt to repair or modify container valves or safety relief devices.
Damaged valves should be reported immediately to the supplier.
Keep container valve outlets clean and free from contaminants particularly oil and water.
Replace valve outlet caps or plugs and container caps where supplied as soon as container is disconnected from equipment.
Close container valve after each use and when empty, even if still connected to equipment.
Never attempt to transfer gases from one cylinder/container to another.
Never use direct flame or electrical heating devices to raise the pressure of a container.
Do not remove or deface labels provided by the supplier for the identification of the cylinder contents.

Conditions for safe storage, including any incompatibilities

: Keep container below 50°C in a well ventilated place. Containers should be stored in the vertical position and properly secured to prevent toppling. Stored containers should be periodically checked for general condition and leakage. Container valve guards or caps should be in place. Store containers in location free from fire risk and away from sources of heat and ignition. Keep away from combustible materials.
Observe all regulations and local requirements regarding storage of containers.
Containers should not be stored in conditions likely to encourage corrosion.

Specific end use(s)

: None.

Compressed Air**AL000A****SECTION 8. Exposure controls/personal protection****Control parameters**

DNEL: Derived no effect level : None available.

PNEC: Predicted no effect concentration : None available.

Exposure controls

Appropriate engineering controls : Systems under pressure should be regularly checked for leakages. Consider work permit system e.g. for maintenance activities.

Individual protection measures, e.g. personal protective equipment : A risk assessment should be conducted and documented in each work area to assess the risks related to the use of the product and to select the PPE that matches the relevant risk. The following recommendations should be considered.
Wear leather safety gloves and safety shoes when handling cylinders.
Wear safety glasses with side shields

Environmental exposure controls : None necessary.

SECTION 9. Physical and chemical properties**Information on basic physical and chemical properties****Appearance**

- Physical state at 20°C / 101.3kPa : Gas.

- Colour : Colourless.

Odour : Odourless.

Molar mass [g/mol] : 29

Melting point [°C] : Not applicable for gas-mixtures.

Boiling point [°C] : Not applicable for gas-mixtures.

Critical temperature [°C] : Not known.

Flash point [°C] : Not applicable for gases and gas-mixtures.

Evaporation rate (ether=1) : Not applicable for gases and gas-mixtures.

Flammability range [vol% in air] : Non flammable.

Vapour pressure [20°C] : Not applicable.

Relative density, gas (air=1) : 1

Relative density, liquid (water=1) : Not applicable.

Solubility in water [mg/l] : Not known, but considered to have low solubility.

Partition coefficient n-octanol/water : Not applicable for inorganic gases.

Auto-ignition temperature [°C] : Not applicable.

Other information

Other data : None.

SECTION 10. Stability and reactivity**Reactivity**

: No reactivity hazard other than the effects described in sub-sections below.

Chemical stability

: Stable under normal conditions.

Possibility of hazardous reactions

: None.

Conditions to avoid

: None under recommended storage and handling conditions (see section 7).

Incompatible materials

Compressed Air**AL000A****SECTION 10. Stability and reactivity (continued)**

: For additional information on compatibility refer to ISO 11114

Hazardous decomposition products

: None.

SECTION 11. Toxicological information**Information on toxicological effects**

Acute toxicity	: No toxicological effects from this product.
Skin corrosion/irritation	: No known effects from this product.
Serious eye damage/irritation	: No known effects from this product.
Respiratory or skin sensitisation	: No known effects from this product.
Carcinogenicity	: No known effects from this product.
Germ cell mutagenicity	: No known effects from this product.
Reproductive toxicity	: No known effects from this product.
STOT-single exposure	: No known effects from this product.
STOT-repeated exposure	: No known effects from this product.
Aspiration hazard	: Not applicable for gases and gas-mixtures.

SECTION 12. Ecological information**Toxicity**

: No ecological damage caused by this product.

Persistence - degradability

: No data available.

Bioaccumulative potential

: No data available.

Mobility in soil

: No data available.

Results of PBT and vPvB assessment

: Not classified as PBT or vPvB.

Other adverse effects

Effect on ozone layer	: None.
Effect on the global warming	: No known effects from this product.

SECTION 13. Disposal considerations**Waste treatment methods**

: May be vented to atmosphere.

Additional information

: None.

Compressed Air**AL000A****SECTION 14. Transport information**

UN number : 1002

Labelling ADR, IMDG, IATA



: 2.2 : Non flammable, non toxic gas.

Land transport (ADR/RID)

H.I. nr : 20

UN proper shipping name : AIR, COMPRESSED

Transport hazard class(es) : 2

Classification code : 1 A

Packing Instruction(s) : P200

Tunnel Restriction : E : Passage forbidden through tunnels of category E.

Environmental hazards : None.

Sea transport (IMDG)

Proper shipping name : AIR, COMPRESSED

Class : 2.2

Packing group : P200

Emergency Schedule (EmS) - Fire : F-C

Emergency Schedule (EmS) - Spillage : S-V

Packing instruction : P200

Air transport (ICAO-TI / IATA-DGR)

Proper shipping name (IATA) : AIR, COMPRESSED

Class : 2.2

Passenger and Cargo Aircraft : Allowed.

Packing instruction - Passenger and Cargo Aircraft : 200

Cargo Aircraft only : Allowed.

Packing instruction - Cargo Aircraft only : 200

Special precautions for user

- : Avoid transport on vehicles where the load space 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 :
- Ensure that containers are firmly secured.
 - Ensure cylinder valve is closed and not leaking.
 - Ensure valve outlet cap nut or plug (where provided) is correctly fitted.
 - Ensure valve protection device (where provided) is correctly fitted.
 - Ensure there is adequate ventilation.

Compressed Air**AL000A****SECTION 15. Regulatory information****Safety, health and environmental regulations/legislation specific for the substance or mixture****EU legislation****Restrictions on use** : None.**Seveso directive 96/82/EC** : Not covered.**National legislation**

: Ensure all national/local regulations are observed.

Chemical Safety Assessment

: A CSA does not need to be carried out for this product.

SECTION 16. Other information**Indication of changes** : Revised safety data sheet in accordance with commission regulation (EU) No 453/2010**Further information** : This Safety Data Sheet has been established in accordance with the applicable European Union legislation.
Classification in accordance with calculation methods of regulation (EC) 1272/2008 CLP / (EC) 1999/45 DPD.**DISCLAIMER OF LIABILITY** : Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out.
Details given in this document are believed to be correct at the time of going to press. Whilst proper care has been taken in the preparation of this document, no liability for injury or damage resulting from its use can be accepted.**End of document**