



# Air

SDS No.: HKO-002G

Revision date: 27/10/2022

Version no.: 03

## SECTION 1: Identification of the substance or mixture and of the company

### 1.1 Product Identifier

Product name : Air, compressed

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

Identified uses : Industrial and professional. Consumer use. Medical use.  
It is the responsibility of the end user to ensure that the product as supplied is suitable for its intended use.

### 1.3 Details of the supplier of the safety data sheet

Supplier name : Linde HKO Limited  
Address : 12 Chun Yat Street, Tseung Kwan O Industrial Estate, Tseung Kwan O,  
Kowloon, Hong Kong  
Phone no. : (852) 2372-2288  
Fax no. : (852) 2372-2508

### 1.3 Emergency telephone number

Emergency no. : (852) 2661 0920 (24 hours)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Gases under pressure (Compressed gas) : H280: Contains gas under pressure; may explode if heated.



## Air

SDS No.: HKO-002G

Revision date: 27/10/2022

Version no.: 03

## 2.2 Label Elements

Pictograms

:



Signal word

: Warning

Hazard statements

: H280: Contains gas under pressure; may explode if heated.

Precautionary statements

General

: None

Prevention

: None

Response

: None

Storage

: P403: Store in a well-ventilated place.

Disposal

: None

## 2.3 Other hazards

None

## SECTION 3: Composition/ information on ingredients

## 3.1 Substances

Not applicable

## 3.2 Mixture

REACH registration number : Listed in Annex IV/V of Regulation (EC) No 1907/2006 (REACH), exempted from registration.

Ingredient(s)	Chemical formula	CAS No.	EC no.	Purity
Oxygen	O <sub>2</sub>	7782-44-7	231-956-9	21 %
Nitrogen	N <sub>2</sub>	7727-37-9	231-783-9	78.1 %
Argon	Ar	7440-37-1	231-147-0	0.9 %



# Air

SDS No.: HKO-002G

Revision date: 27/10/2022

Version no.: 03

## SECTION 4: First Aid Measures

### 4.1 Description of first aid measures

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

### 4.2 Most important symptoms and effects, both acute and delayed

None

### 4.3 Immediate medical attention and special treatment needed

None

## SECTION 5: Firefighting Measures

### 5.1 Extinguishing media

Suitable extinguishing media	:	Material will not burn. In case of fire in the surroundings, use appropriate extinguishing agent.
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### 5.2 Special hazards arising from the substance or mixture

Supports combustion. Exposure to fire may cause containers to rupture/explode.

### 5.3 Advice for firefighters

Special fire fighting procedures	:	In case of fire, stop leak if safe to do so. Continue water spray from protected position until container stays cool. Use extinguishants to contain the fire. Isolate the source of the fire or let it burn out.
Special protective equipment for firefighters	:	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and Self-Contained Breathing Apparatus (SCBA).



Air

SDS No.: HKO-002G

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Version no.: 03

## SECTION 6: Accidental Release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures

None

### 6.2 Environmental Precautions

Prevent further leakage or spillage if safe to do so.

### 6.3 Methods and material for containment and cleaning up

Provide adequate ventilation.

### 6.4 Reference to other sections

See also sections 8 and 13.

## SECTION 7: Handling and Storage

### 7.1 Precautions for safe handling

Only experienced and properly instructed persons should handle gases under pressure. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Refer to supplier's handling instructions. The substance must be handled in accordance with good industrial hygiene and safety procedures. Protect containers from physical damage; do not drag, roll, slide or drop. Do not remove or deface labels provided by the supplier for the identification of the container contents. When moving containers, even for short distances, use appropriate equipment eg. trolley, hand truck, fork truck etc. Secure cylinders in an upright position at all times, close all valves when not in use. Provide adequate ventilation. Suck back of water into the container must be prevented. Do not allow backfeed into the container. Avoid suckback of water, acid and alkalis. Keep container below 50°C in a well ventilated place. Observe all regulations and local requirements regarding storage of containers. When using do not eat, drink or smoke. Store in accordance with local/regional/national/international regulations. Never use direct flame or electrical heating devices to raise the pressure of a container. 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. Damaged valves should be reported immediately to the supplier. Close container valve after each use and when empty, even if still connected to equipment. Never attempt to repair or modify container valves or safety relief devices. Replace valve outlet caps or plugs and container caps where supplied as soon as container is disconnected from equipment. Keep container valve outlets clean and free from contaminants particularly oil and water. If user experiences any difficulty operating container valve discontinue use and contact supplier. Never attempt to transfer gases from one container to another. Container valve guards or caps should be in place.



## Air

SDS No.: HKO-002G

Revision date: 27/10/2022

Version no.: 03

## 7.2 Conditions for safe storage, including any incompatibilities

Containers should not be stored in conditions likely to encourage corrosion. Stored containers should be periodically checked for general conditions 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 material.

## 7.3 Specific end uses

None

# SECTION 8: Exposure Controls/Personal Protection

## 8.1 Control parameters

- Occupational Exposure Limits : No exposure limits have been established for this product.  
 Biological limits : No biological limits have been established for this product.

## 8.2 Exposure controls

- Appropriate engineering controls : Consider a work permit system e.g. for maintenance activities. Ensure adequate air ventilation. Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded. Systems under pressure should be regularly checked for leakages. Preferably use permanent leak tight connections (eg. welded pipes). Do not eat, drink or smoke when using the product.

Individual protection measures, such as personal protective equipment.

- Eye protection : Wear safety glasses.  
 Hand Protection : Wear leather gloves.  
 Body protection : Wear safety boots.  
 Respiratory Protection : Not required under normal conditions of use.



## Air

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Version no.: 03

## SECTION 9: Physical and Chemical Properties

## 9.1 Information on basic physical and chemical properties

## Appearance

Physical state	: Gas
Form	: Compressed gas
Colour	: Colorless
Odour	: Odourless
Odour Threshold	: No data available.
pH	: No data available.
Melting Point	: No data available.
Boiling Point	: No data available.
Sublimation Point	: No data available.
Critical Temp. (°C)	: No data available.
Flash Point	: No data available.
Evaporation Rate	: No data available.
Flammability (solid, gas)	: This product is not flammable.
Flammability limit - upper (%)	: No data available.
Flammability limit - lower (%)	: No data available.
Vapour pressure	: No data available.
Vapour density (air=1)	: 1
Relative density	: No data available.
Solubility (in Water)	: No data available.
Partition coefficient (n-octanol/water)	: No data available.
Autoignition Temperature	: No data available.
Decomposition Temperature	: No data available.
Viscosity	
Kinematic viscosity	: No data available.
Dynamic viscosity	: No data available.
Explosive properties	: No data available.
Oxidising Properties	: No data available.

## 9.2 Other information

Additional information : None.



Air

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## SECTION 10: Stability and Reactivity

### 10.1 Reactivity

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

### 10.2 Chemical Stability

Stable under normal conditions.

### 10.3 Possibility of Hazardous Reactions

None.

### 10.4 Conditions to Avoid

None

### 10.5 Incompatible Materials

No reaction with any common materials in dry or wet conditions.

### 10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.



Air

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## SECTION 11: Toxicological Information

### 11.1 Information on toxicological effects

Acute toxicity	
Oral	: Based on available data, the classification criteria are not met.
Inhalation	: Based on available data, the classification criteria are not met.
Dermal	: Based on available data, the classification criteria are not met.
Skin Corrosion/Irritation	: Based on available data, the classification criteria are not met.
Serious Eye Damage/Eye Irritation	: Based on available data, the classification criteria are not met.
Respiratory or Skin Sensitisation	: Based on available data, the classification criteria are not met.
Germ Cell Mutagenicity	: Based on available data, the classification criteria are not met.
Carcinogenicity	: Based on available data, the classification criteria are not met.
Reproductive toxicity	: Based on available data, the classification criteria are not met.
Specific Target Organ Toxicity	
Single Exposure	: Based on available data, the classification criteria are not met.
Repeated Exposure	: Based on available data, the classification criteria are not met.
Aspiration Hazard	: Not applicable to gases and gas mixtures.

## SECTION 12: Ecological Information

### 12.1 Toxicity

No ecological damage caused by this product.

### 12.2 Persistence and Degradability

Not applicable.

### 12.3 Bioaccumulative Potential

The subject product is expected to biodegrade and is not expected to persist for long periods in an aquatic environment.

### 12.4 Mobility in Soil

Because of its high volatility, the product is unlikely to cause ground or water pollution.

### 12.5 Other Adverse Effects

No ecological damage caused by this product.





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## SECTION 13: Disposal Considerations

### 13.1 Waste treatment methods

Disposal method : Vent to atmosphere in a well ventilated place. Dispose of container via supplier only.

## SECTION 14: Transport Information

### ADR/RID

14.1 UN Number : UN 1002  
 14.2 UN proper shipping name : AIR, COMPRESSED  
 14.3 Transport Hazard Class(es)  
     Class : 2  
     Label(s) : 2.2: Non-flammable, non-toxic gases  
     Classification Code : 1A  
     Hazard No. : 20  
 14.4 Packaging group : None  
 14.5 Environmental hazards : Not Applicable  
 14.6 Special precautions for user : None

### IMDG

14.1 UN Number : UN 1002  
 14.2 UN proper shipping name : AIR, COMPRESSED  
 14.3 Transport Hazard Class(es)  
     Class : 2.2  
     Label(s) : 2.2: Non-flammable, non-toxic gases  
 14.4 Packaging group : None  
 14.5 Environmental hazards : Not Applicable  
 14.6 Special precautions for user : None



## Air

SDS No.: HKO-002G

Revision date: 27/10/2022

Version no.: 03

## IATA

14.1 UN Number	:	UN 1002
14.2 UN proper shipping name	:	Air, COMPRESSED
14.3 Transport Hazard Class(es)		
Class	:	2.2
Label(s)	:	2.2: Non-flammable, non-toxic gases
14.4 Packaging group	:	None
14.5 Environmental hazards	:	Not Applicable
14.6 Special precautions for user	:	None
Other information		
Passenger and cargo aircraft	:	Allowed
Cargo aircraft only	:	Allowed

## 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Not Applicable

## 14.8 Additional information

Transport precautions : 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 they are firmly secured. Ensure that the container valve is closed and not leaking. Container valve guards or caps should be in place. Ensure adequate air ventilation.

## SECTION 15: Regulatory information

## 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Local legislation : Dangerous Goods Ordinance (Chapter 295)



# Air

SDS No.: HKO-002G

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Version no.: 03

## SECTION 16: Other Information

- Other information : Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out. Ensure adequate air ventilation. Ensure all national/local regulations are observed. 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.
- Revision date : 27/10/2022
- Disclaimer : The above information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.

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