



Air, Compressed

Section 1, Identification

Product Name : Air, compressed
Formula : Not applicable
Other means of identification : Breathing air, synthetic air, medical air, zero air
Product use : Industrial use, Synthetic/Analytical chemistry.
Supplier's details : WKS INDUSTRIAL GAS PTE LTD
22 Tuas Avenue 10
Singapore 639145
T-6898 2292, F-6898 2202
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Section 2, Hazard(s) identification

Classified as Hazardous under OSHA Hazard Communication Standard (29 CFR 1910.1200)

GHS Classification : Gases under pressure – Compressed gas.

Hazard pictogram(s) :



Signal word : Warning.

Hazard statement(s) : H280 Contains gas under pressure; may explode if heated.

Precautionary statement(s) : P202 Do not handle until all safety precautions have been read and understood.
: P403 Store in a well-ventilated area.
: CGA-PG06 Close valve after each use and when empty.
: CGA-PG10 Use only equipment rated for cylinder pressure.

Disposal : Not Applicable.

Hazards not otherwise classified : None known

Hazchem code : 2T

H S Code : 28530000

Section 3, Composition/information on ingredients

Name : Air, compressed.

Ingredient	Percent	CAS No.
Nitrogen	75 – 85%	7727-37-9
Oxygen	15 – 25%	7782-44-7

Section 4, First-aid measures

Description of First-Aid measures

Inhalation : "None expected".

Skin contact : Adverse effects not expected from this product.



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Eye contact : Adverse effects not expected from this product. In case of eye irritation, rinse immediately with plenty of water. Seek medical attention if needed.

Ingestion : Ingestion is not considering a potential route of exposure.

Most important symptoms and effects, both acute and delayed

No additional information available.

Indication of any immediate medical attention and special treatment needed

None.

Section 5, Fire-fighting measures

Extinguishing media

Use an extinguishing agent appropriate for surrounding fire.

Special hazards arising from the substance or mixture

None anticipated. In a fire or if heated, a pressure increase will occur and may cause cylinder to burst or explode.

Advice for firefighters

Evacuate all personnel. Heat from fire will increase temperatures in cylinder and may cause cylinder to rupture. Cool cylinders or containers by applying water from a safe distance. Stop flow of gas if safe to do so. Remove cylinders from path of fire if safe to do so. Use self-contained breathing apparatus and protective clothing.

Section 6, Accidental release measures

Personal precautions, protective equipment and emergency procedures

Non-emergency personnel : Evacuate area. Eliminate ignition sources. Ensure adequate air ventilation and wear appropriate respirator when ventilation is inadequate. Wear PPE.

For emergency responders : If specialised clothing is required to deal with spillage, refer to Section 8 on suitable and unsuitable materials. See also information in "Non-emergency personnel".

Environmental precautions : Try to stop release. Prevent from entering sewers, basement, work pits or any place where its accumulation can be dangerous.

Methods and materials used for containment cleaning up

Stop leak if without risk. Carefully move cylinder to well-ventilated remote area and allow discharge if safe to do so. Refer to Section 8 & 13.

Section 7, Handling and storage

Precautions for safe handling

Contain under pressure. Do not drag, roll, drop or slide cylinder. Do not puncture or incinerate cylinder. Open valve slowly and close after use. Use equipment rated for cylinder pressure. Keep cylinders in well-ventilated place.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store cylinders only where temperature will not exceed 52°C. Keep cylinder tightly closed until ready for use. Store full and empty cylinders separately. Use a first-in, first-out inventory system to prevent storing full containers for long periods.

Section 8, Exposure controls/personal protection

Control parameters

Exposure standards : Not established.

Biological limits : Not established.



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Exposure controls

Engineering controls : No special precautions under normal handling of product. Good ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual protection measures

PPE

Eye / face : Safety glasses with side shields.

Hand : Gloves.

Body : Safety boots.

Respiratory : When a risk assessment indicates respirator use, use a properly fitted, air-purifying or air-fed respirator complying with an approved standard.

Section 9, Physical and chemical properties

Physical state : Gas.

Colour : Colourless.

Odour : Odourless.

Odour threshold : Not available.

Molecular mass : 29 g/mol

pH : Not applicable.

Melting point : Not applicable.

Boiling point : Not applicable.

Flash point : Not applicable.

Evaporation rate : Not applicable.

Flammability (solid, gas) : Not available.

Upper/lower explosive limits : Not available.

Vapour pressure : Not available.

Vapour density : 0.967 (Air = 1)

Relative density : 1.0 (air = 1)

Solubility (water) : Not available.

Oxidizing properties : None.

Partition coefficient: n-octanol/water : Not available.

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : Not applicable.

Section 10, Stability and reactivity

Reactivity : No additional information available.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : Polymerization will not occur.

Conditions to avoid : No specific data.

Incompatible materials : No specific data.

Hazardous decomposition products : None.

Section 11, Toxicological information

Acute toxicity : Not available.

Corrosion/irritation : Not available.

Sensitization : Not available.

Mutagenicity : Not available.

Carcinogenicity : Not available.

Reproductive toxicity : Not available.

STOT (single exposure) : Not available.



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STOT (repeated exposure) : Not available.
Aspiration hazard : Not available.




Section 12, Ecological information

Toxicity : Not available.
Persistence and degradability : Not available.
Bioaccumulative potential : Not available.
Mobility in soil : Not available.
Other adverse effects : No known effects from this product.

Section 13, Disposal considerations

Disposal : Do not attempt to dispose of residual or unused quantities.
Return container to supplier.

Section 14, Transport information

	Land Transport	Sea transport	Air Transport
UN number	UN1002	UN1002	UN1002
UN proper shipping name	AIR, COMPRESSED	AIR, COMPRESSED	AIR, COMPRESSED
Transport hazard class(es)	2.2 	2.2 	2.2 
Packing group	None allocated	None allocated	None allocated
Environmental hazards	No	No	No

Additional information : Ensure cylinder is separated from driver's compartment. Ensure driver is aware of the potential hazards of product and know what to do in the event of an accident or an emergency. Ensure that cylinders are properly secured and valves are closed.

Section 15, Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture : Ensure all local regulations or legislations are observed.

Section 16, Other information

Ensure operator / user understand the hazard of oxygen enrichment. Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out.

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

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