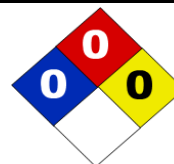


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Label 2.2: Non flammable, non toxic gas.



NFPA RATING

1 IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Trade Name : Compressed Air
 Chemical Formula : Mixture of N2 and O2
 Chemical Family : Not applicable
 MSDS No : DG005G
 Company Identification : Aldakheel Industrial Gases Plant (*DIGAS*)
 Emergency Phone Number : 04-8455-101

2 COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENTS	CAS NUMBER	CONCENTRATION
Air	132259-10-0	% by Mole 100

3 HAZARDS IDENTIFICATION

Emergency Overview : **Caution! High pressure gas.**

Effects of a Single (Acute)

Overexposure:

- Inhalation : No harm expected.
- Skin Contact : No harm expected.
- Swallowing : This product is a gas at normal temperature and pressure. No harm expected.
- Eye Contact : No harm expected.

Effects of Repeated (Chronic) Overexposure : None expected.

Other Effects of Overexposure : No harm expected.

Medical Conditions Aggravated by Overexposure : No harm expected.

Significant Laboratory Data with Possible Relevance to Human Health Hazard Evaluation : None expected.

4 FIRST AID MEASURES

Inhalation : None expected.
 Skin contact : None expected.
 Swallowing : None expected.
 Eye contact : None expected.
 Notes to Physician : None.

Aldakheel Industrial Gases Plant

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5 FIRE-FIGHTING MEASURES

Flammable class	: Non flammable.
Extinguishing media	
Suitable extinguishing media	: All known extinguishants can be used.
Hazardous combustion products	: None.
Specific physical and chemical hazards	: Oxidizing agent, may accelerate combustion. Contact with flammable materials may cause fire or explosion. Container may rupture due to heat of fire. Vapours are extremely irritating. Contact may cause burns to skin and eyes. No part of a container should be subjected to a temperature higher than 52 C. Most containers are provided with a pressure relief device designed to vent contents when they are exposed to elevated
Sensitivity to impact	: Avoid impact against container.
Sensitivity to Static discharge	: Not applicable.
Protective equipment and precautions for firefighters	: Firefighters should wear self-contained breathing apparatus and full fire-fighting turnout gear.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions	: CAUTION! Shut off cylinder if without risk.
Environmental precautions	: Prevent waste from contaminating the surrounding environment. Keep personnel away. Discard any product, residue, disposable container, or liner in an environmentally acceptable manner, in full compliance with federal, provincial, and local regulations. If necessary, call your local supplier for assistance.

7 HANDLING AND STORAGE

Precautions to be taken in handling	: Protect cylinders from damage. Use a suitable hand truck to move cylinders; do not drag, roll, slide, or drop. Electrical equipment must be non-sparking or explosion-proof. Leak check system with soapy water; never use a flame. Never attempt to lift a cylinder by its cap; the cap is intended solely to protect the valve. Never insert an object (e.g., wrench, screwdriver, pry bar) into cap openings; doing so may damage the valve and cause a leak. Use an adjustable strap wrench to remove over-tight or rusted caps. Open valve slowly. If valve is hard to open, discontinue use and contact DIGAS.
Precautions to be taken in storage	: Store and use with adequate ventilation. Separate flammable cylinders from oxygen, chlorine, and other oxidizers by at least 6 m or use a barricade of non-combustible material. This barricade should be at least 1.5 m high and have a fire resistance rating of at least ½ hour. Firmly secure cylinders upright to keep them from falling or being knocked over. Screw valve protection cap firmly in place by hand. Post "No Smoking or Open Flames" signs in storage and use areas. There must be no sources of ignition. All electrical equipment in storage areas must be explosion-proof. Storage areas must meet national electric codes for Class 1 hazardous areas. Store only where temperature will not exceed 52 C. Store full and empty cylinders separately. Use a first-in, first-out inventory system to prevent storing full cylinders for long periods.
Other Hazardous Conditions of Handling, Storage, and Use	: High pressure gas. Use piping and equipment adequately designed to withstand pressures to be encountered. May accelerate combustion. Keep oil and grease away. Never work on pressurized system. If there is a leak, close the cylinder valve. Vent the system down in a safe and environmentally sound manner, then repair the leak. Never place a compressed gas cylinder where it may become part of an electrical circuit. When using compressed gases in and around electric welding applications, never ground the cylinders. Grounding exposes the cylinders to damage by the electric welding arc.

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7 HANDLING AND STORAGE (Continued)

Arcs and sparks can ignite combustible materials : Prevent fires. Fire Prevention During Welding, Cutting, and Other Hotwork. Do not strike an arc on the cylinder. The defect produced by an arc burn could lead to cylinder rupture.

Use in Underwater Breathing : Suitability of this product for use in underwater breathing must be determined by or under supervision of someone experienced in the use of underwater breathing gas mixtures. This person must be familiar with how the product is used; the frequency, duration, and effects of use; the hazards and side effects of use, and the and the precautions to take to avoid or control them.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls:

Local exhaust : No special containment is required.

Mechanical (General) : No special containment is required.

Special : None.

Other : None.

Personal protective equipment

Respiratory Protection : None required.

Skin Protection : Wear work gloves when handling cylinders.

Eye Protection : Wear safety glasses when handling cylinders.

Other Protective Equipment : Metatarsal shoes for cylinder handling. Protective clothing where needed.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Colorless.
Odor Threshold	: Odourless Gas.
Physical State	: Gas. (Compressed Gas)
pH	: Not applicable.
Freezing Point	: -216.2°C (-357.2°F)
Boiling Point	: -194.3°C(-317.7°F)
Flash Point (test method)	: Not applicable.
Evaporation Rate (Butyl Acetate = 1)	: Not applicable.
Flammable Limits In Air, % by volume	: Lower Not applicable Upper Not applicable
Vapor Pressure	: Not applicable.
Specific Gravity Liquid (Water = 1)	: Not applicable.
Specific Gravity Vapour (Air = 1)	: 1.00 g/ml
Vapour Density	: 0.0012 g/ml
Solubility In Water	: Not applicable.
Coefficient of water/oil distribution	: Not applicable.
Autoignition Temperature	: Not applicable.
Percent Volatiles By Volume	: 100% (V/V)
Molecular Weight	: 28.975 g/mole
Molecular Formula	: Mixture of N2 and O2

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10 STABILITY AND REACTIVITY

Stability : The product is stable.
Conditions of chemical Instability : Not Available.
Incompatibility (materials to avoid) : Flammable and combustible materials.
Hazardous Decomposition Products : None.
Hazardous polymerization : will not occur.
Conditions to Avoid : None known.
Conditions of Reactivity : None known.

11 TOXICOLOGICAL INFORMATION

Acute Dose Effect : Not applicable. The welding process may generate hazardous fumes and gases.
Study Results : None known.

12 ECOLOGICAL INFORMATION

Ecological Information : No adverse ecological effects expected. This product does not contain any Class or Class II ozone-depleting chemicals.

13 DISPOSAL CONSIDERATION

Waste Disposal Method : Do not attempt to dispose of residual or unused quantities. Return cylinder to DIGAS.

14 TRANSPORT INFORMATION

Transport Information : 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.
- Compliance with applicable regulations.

15 OTHER INFORMATION

Mixtures : When two or more gases, or liquefied gases are mixed, their hazardous properties may combine to create additional, unexpected hazards. Obtain and evaluate the safety information for each component before you produce the mixture. Consult an Industrial Hygienist, or other trained person when you make your safety evaluation of the end product.

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15 OTHER INFORMATION (Continued)

HAZARD RATING SYSTEMS:

NFPA Ratings:

Health =0
 Flammability =0
 Instability =0
 Special = SA (CGA recommends this to designate Simple Asphyxiant).

HMIS Ratings:

Health =0
 Flammability =0
 Physical Hazard =3

STANDARD VALVE CONNECTIONS

THREADED : CGA-346 (Medical), CGA-590 (Industrial)

PIN-INDEX YOKE : CGA-950 (Medical)

Use the proper CGA connections. **DO NOT USE ADAPTERS.**

This Material Safety Data Sheet has been established for the best knowledge of DIGAS.

Details given in this document are believed to be correct at the best of DIGAS knowledge. 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 Documents