Section 1. Chemical product and company identification

**Commercial name(s).** Air, compressed

**Material uses** : Various.

**Supplier/Manufacturer** : Air Liquide Canada Inc. 1250, René-Lévesque West, Suite 1700, Montreal, QC H3B 5E6

**In case of emergency** : (514) 878-1667

Section 2. Hazards identification

**Physical state** : Gas.

**Emergency overview** : CAUTION!

HIGH PRESSURE GAS. Keep away from heat (<52°C/125°F). Extremely hazardous gas under pressure. Keep cylinder valve closed when the product is not used.

**Routes of entry** : Inhalation. Dermal contact. Eye contact.

**Potential acute health effects**

**Inhalation** : Decompression sickness (bends) is possible following rapid decompression.

**Skin** : No known significant effects or critical hazards.

**Eyes** : No known significant effects or critical hazards.

**Ingestion** : Since the product is a gas, it will probably be inhaled rather than ingested. Consider first the preventive measures in case of inhalation.

**Potential chronic health effects** : Carcinogenic effects: Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.

Mutagenic effects: Not available.

Teratogenic effects: Not available.

**Medical conditions aggravated by over-exposure** : None known.

See toxicological information (section 11)

Section 3. Composition, Information on Ingredients

<table>
<thead>
<tr>
<th>Canada</th>
<th>CAS number</th>
<th>mole %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air(*)</td>
<td>132259-10-0</td>
<td>100</td>
</tr>
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</table>

This material is classified hazardous under the WHMIS Controlled Product Regulation in Canada. See Chapters 8, 11, 14 and 15 for details.

Section 4. First aid measures

**Inhalation** : Not applicable. Get medical attention if symptoms occur.

**Skin contact** : Not applicable. Get medical attention if symptoms occur.

**Eye contact** : Individual in contact with a gas should not wear contact lenses. Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 20 minutes. Get medical attention if symptoms occur.

**Ingestion** : Since the product is a gas, it will probably be inhaled rather than ingested. Consider first the preventive measures in case of inhalation.

**Notes to physician** : No special remark under normal condition of use. In case of inhalation under high pressure environments, the medical doctor must be warned that the person may suffer from symptoms similar to hyperoxia.
Section 5. Fire fighting measures

**Flammability of the product**: Non-flammable. May accelerate combustion.

**Products of combustion**: Decomposition products may include the following materials: nitrogen oxides

**Explosion hazards in the presence of various substances**: Container explosion may occur under fire conditions or when heated.

**Fire-fighting media and instructions**: Use an extinguishing agent suitable for the surrounding fire.

**Special protective equipment for fire-fighters**: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

**Personal precautions**: EVACUATE ALL PERSONNEL FROM THE IMMEDIATE AREA OF THE ACCIDENT. Use appropriate protective equipment. If leak is in user's equipment, be certain to purge piping with an inert gas prior to attempting repairs. If leak is on cylinder or cylinder valve, contact the closest Air Liquide location.

**Environmental precautions**: Ensure emergency procedures to deal with accidental gas releases are in place to avoid contamination of the environment. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

**Methods for cleaning up**: Immediately contact emergency personnel. Stop leak if without risk. Note: see section 1 for emergency contact information and section 13 for waste disposal.

Section 7. Handling and storage

**Handling**: Valve protection caps must remain in place unless cylinder is secured with valve outlet piped to usage point. Do not drag, slide or roll cylinders. Use a suitable hand truck for cylinder movement. Use a pressure regulator when connecting cylinder to lower pressure piping or systems. Do not heat cylinder by any means to increase the discharge rate of product from the cylinder. Use a check valve or trap in the discharge line to prevent hazardous back flow to the cylinder. Do not tamper with (valve) safety device. Close valve after each use and when empty.

**Storage**: Protect cylinders from physical damage. Store in cool, dry, well-ventilated area of non combustible construction away from heavily trafficked areas and emergency exits. Do not allow the temperature where cylinders are stored to exceed 52°C/125°F. Cylinders must be stored upright and firmly secured to prevent falling or being knocked over. Full and empty cylinders should be segregated. Use a "first in - first out" inventory system to prevent full cylinders being stored for excessive periods of time. Post "No Smoking or Open Flames" signs in the storage or use area. There should be no source of ignition in the storage or use area.

Section 8. Exposure controls/personal protection

**Engineering controls**: No special ventilation requirements.

**Personal protection**

**Respiratory**: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

**Hands**: Wear suitable gloves for the application.

**Eyes**: Safety glasses with side shields.

**Skin/Body**: Wear appropriate personal protective suit. Metal cap, safety shoes are recommended when handling cylinders.

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Section 9. Physical and chemical properties

- Physical state: Gas.
- Color: Colorless.
- Odor: Odorless.
- Boiling/condensation point: -194.4°C (-317.9°F)
- Vapor density: 1 [Air = 1]

Section 10. Stability and reactivity

- Stability and reactivity: The product is stable.
- Incompatibility with various substances: Reactive or incompatible with the following materials: organic materials.
- Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- Hazardous polymerization: Under normal conditions of storage and use, hazardous polymerization will not occur.

Section 11. Toxicological information

- Acute Effects
  - Inhalation: Decompression sickness (bends) is possible following rapid decompression.
  - Skin: No known significant effects or critical hazards.
  - Eyes: No known significant effects or critical hazards.
  - Ingestion: Since the product is a gas, it will probably be inhaled rather than ingested. Consider first the preventive measures in case of inhalation.
- Potential chronic health effects: Carcinogenic effects: Not classified or listed by IARC, NTP, OSHA, EU and ACGIH. Mutagenic effects: Not available. Teratogenic effects: Not available.

Section 12. Ecological information

- Products of degradation: These gases are released as is in the atmosphere.

Section 13. Disposal considerations

- Disposal: Do not attempt to dispose of the container or of its content. Return in the shipping container properly labeled, with any valve outlet plugs or caps secured and valve protection cap in place to Air Liquide for proper disposal. For emergency disposal, contact the closest Air Liquide location.
Section 14. Transport information

<table>
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<tr>
<th>Regulatory information</th>
<th>UN number</th>
<th>Proper shipping name</th>
<th>Classes</th>
<th>PG*</th>
<th>Label</th>
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<td>TDG Classification</td>
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<td>2.2</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

PG* : Packing group

Additional information

Cylinders should be transported in a secure position, in a well ventilated vehicle. The transportation of compressed gas cylinders in automobiles or in closed-body vehicles can present serious safety hazards and should be discouraged.

Section 15. Regulatory information

Canada
WHMIS (Canada) : Class A: Compressed gas.

Canadian lists :
- CEPA Toxic substances: None of the components are listed.
- Canadian ARET: None of the components are listed.
- Canadian NPRI: None of the components are listed.
- Alberta Designated Substances: None of the components are listed.
- Ontario Designated Substances: None of the components are listed.
- Quebec Designated Substances: None of the components are listed.

Canada inventory (DSL/NDSL) : All components are listed or exempted.

Section 16. Other information

Hazardous Material Information System (U.S.A.) :
- Health : 0
- Fire hazard : 0
- Physical Hazard : 0
- Personal protection : 0

National Fire Protection Association (U.S.A.) :
- Health : Flammability : 0
- Instability : Special : 0

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Notice to reader

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Notes

(*)

1) Atmospheric air that is compressed, is composed of the following gases:
   Nitrogen: 78%
   Oxygen: 21%
   Argon: 0.9%

2) Compressed air is also synthetically produced by mixing 79% of nitrogen with 21% of oxygen.