

**SECTION 1: Identification**
**1.1. Product identifier**

Product form : Mixtures  
 Trade name : ALTIG  
 Product code : CA-2002-05250

**1.2. Recommended use and restrictions on use**

Recommended uses and restrictions : Test/Calibration gas  
 Shielding gas for arc welding.

**1.3. Supplier**

Air Liquide Canada Inc.  
 1250, René Lévesque West Blvd. Suite 1700  
 H3B 5E6 Montreal, QC - Canada  
 T 1-800-817-7697  
[www.airliquide.ca](http://www.airliquide.ca)

**1.4. Emergency telephone number**

Emergency number : 514-878-1667

**SECTION 2: Hazard identification**
**2.1. Classification of the substance or mixture**
**Classification (GHS CA)**

Gases under pressure : H280  
 Compressed gas

Full text of H statements : see section 16

**2.2. GHS Label elements, including precautionary statements**
**GHS CA labelling**

Hazard pictograms (GHS CA) :



Signal word (GHS CA) : Warning

Hazard statements (GHS CA) : H280 - Contains gas under pressure; may explode if heated.  
 OSHA-H01 - May displace oxygen and cause rapid suffocation

Precautionary statements (GHS CA) : P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.  
 P403 - Store in a well-ventilated place.  
 P202 - Do not handle until all safety precautions have been read and understood.  
 P308+P313 - IF exposed or concerned: Get medical advice/attention.  
 P280 - Wear eye protection, face protection, protective clothing, protective gloves.  
 P271 - Use only outdoors or in a well-ventilated area.  
 P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 CGA-PG02 - Protect from sunlight when ambient temperature exceeds 52 °C/125 °F  
 CGA-PG05 - Use a back flow preventive device in the piping  
 CGA-PG06 - Close valve after each use and when empty  
 CGA-PG10 - Use only with equipment rated for cylinder pressure  
 CGA-PG14 - Approach suspected leak area with caution  
 CGA-PG21 - Open valve slowly

**2.3. Other hazards**

Other hazards not contributing to the classification : Asphyxiant in high concentrations.

**2.4. Unknown acute toxicity (GHS CA)**

No data available

**SECTION 3: Composition/information on ingredients**
**3.1. Substances**

Not applicable

**3.2. Mixtures**

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| Name                | Chemical name / Synonyms                  | Product identifier  | %  | Classification (GHS CA)  |
|---------------------|---|---------------------|----|--------------------------|
| Argon               | Argon, compressed                         | (CAS-No.) 7440-37-1 | 85 | Press. Gas (Comp.), H280 |
| Helium (Compressed) | Helium<br>Helium, compressed / Helium gas | (CAS-No.) 7440-59-7 | 15 | Press. Gas (Comp.), H280 |

Full text of hazard classes and H-statements : see section 16

### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures

- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If you feel unwell, seek medical advice. Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor. Perform cardiopulmonary resuscitation if breathing stopped.
- First-aid measures after skin contact : Adverse effects not expected from this product.
- First-aid measures after eye contact : Adverse effects not expected from this product.
- First-aid measures after ingestion : Ingestion is not considered a potential route of exposure.

#### 4.2. Most important symptoms and effects (acute and delayed)

- Symptoms/effects after inhalation : May displace oxygen and cause rapid suffocation.
- Symptoms/effects after skin contact : Adverse effects not expected from this product.
- Symptoms/effects after eye contact : Adverse effects not expected from this product.
- Symptoms/effects after ingestion : Ingestion is not considered a potential route of exposure.
- Symptoms/effects upon intravenous administration : Not known.
- Chronic symptoms : Adverse effects not expected from this product.
- Most important symptoms and effects, both acute and delayed : In high concentrations may cause asphyxiation. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation. Refer to section 11.

#### 4.3. Immediate medical attention and special treatment, if necessary

- Other medical advice or treatment : If you feel unwell, seek medical advice. If breathing is difficult, give oxygen.

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable extinguishing media

- Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

#### 5.2. Unsuitable extinguishing media

- Unsuitable extinguishing media : Do not use water jet to extinguish.

#### 5.3. Specific hazards arising from the hazardous product

- Fire hazard : The product is not flammable.
- Explosion hazard : Product is not explosive. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.
- Reactivity : None known.  
No reactivity hazard other than the effects described in sub-sections below.
- Hazardous combustion products : None.

#### 5.4. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. Exposure to fire may cause containers to rupture/explode. Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire.
- Protection during firefighting : Standard protective clothing and equipment (e.g. Self Contained Breathing Apparatus) for fire fighters. Do not enter fire area without proper protective equipment, including respiratory protection.
- Specific methods : Use fire control measures appropriate for the surrounding fire. Exposure to fire and heat radiation may cause gas receptacles to rupture. Cool endangered receptacles with water spray jet from a protected position. Prevent water used in emergency cases from entering sewers and drainage systems. If possible, stop flow of product. Use water spray or fog to knock down fire fumes if possible. Move containers away from the fire area if this can be done without risk.
- Special protective equipment for fire fighters : In confined space use self-contained breathing apparatus. Standard protective clothing and equipment (e.g. Self Contained Breathing Apparatus) for fire fighters. Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask. Standard EN 469 - Protective clothing for firefighters. Standard - EN 659: Protective gloves for firefighters.

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### SECTION 6: Accidental release measures

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

- General measures : Try to stop release. Evacuate area. Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. Ensure adequate air ventilation. Ensure adequate ventilation. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Act in accordance with local emergency plan. Stay upwind. Oxygen detectors should be used when asphyxiating gases may be released.
- Personal Precautions, Protective Equipment and Emergency Procedures : EVACUATE ALL PERSONNEL FROM AFFECTED AREA. Use appropriate protective equipment. If leak is on user's equipment, be certain to purge piping before attempting repairs. If leak is on a container or container valve contact the closest Air Liquide Canada location.

#### 6.2. Methods and materials for containment and cleaning up

- For containment : Try to stop release if without risk.
- Methods for cleaning up : Dispose of contents/container in accordance with local/regional/national/international regulations.
- Methods and material for containment and cleaning up : Ventilate area.

#### 6.3. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area.
- Hygiene measures : Do not eat, drink or smoke when using this product.
- Additional hazards when processed : Do not pierce or burn, even after use. Use only with equipment rated for cylinder pressure. Close valve after each use and when empty.
- Safe use of the product : The product must be handled in accordance with good industrial hygiene and safety procedures. Only experienced and properly instructed persons should handle gases under pressure. Consider pressure relief device(s) in gas installations. Ensure the complete gas system was (or is regularly) checked for leaks before use. Do not smoke while handling product. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt. Avoid suck back of water, acid and alkalis. Do not breathe gas. Avoid release of product into work area.
- Safe handling of the gas receptacle : Refer to supplier's container handling instructions. 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. Suck back of water into the container must be prevented. Open valve slowly to avoid pressure shock.

#### 7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Comply with applicable regulations.
- Storage conditions : Do not expose to temperatures exceeding 52 °C/ 125 °F. Keep container closed when not in use. Protect cylinders from physical damage; do not drag, roll, slide or drop. Store in well ventilated area.
- Incompatible products : None known.
- Incompatible materials : None known.
- Conditions for safe storage, including any incompatibilities : Observe all regulations and local requirements regarding storage of containers. Containers should not be stored in conditions likely to encourage corrosion. Container valve guards or caps should be in place. Containers should be stored in the vertical position and properly secured to prevent them from falling over. Stored containers should be periodically checked for general condition and leakage. Keep container below 50°C in a well ventilated place. Store containers in location free from fire risk and away from sources of heat and ignition. Keep away from combustible materials.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

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### 8.2. Appropriate engineering controls

- Appropriate engineering controls : Ensure exposure is below occupational exposure limits (where available). Provide adequate general and local exhaust ventilation. Oxygen detectors should be used when asphyxiating gases may be released. Systems under pressure should be regularly checked for leakages. Ensure exposure is below occupational exposure limits (where available). Consider the use of a work permit system e.g. for maintenance activities.
- Environmental exposure controls : Refer to local regulations for restriction of emissions to the atmosphere. See section 13 for specific methods for waste gas treatment. None necessary.

### 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

Gloves. Safety glasses. Protective clothing. Safety shoes. 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: PPE compliant to the recommended EN/ISO standards should be selected.

#### Hand protection:

Wear working gloves when handling gas containers. Standard EN 388 - Protective gloves against mechanical risk.

#### Eye protection:

Wear safety glasses with side shields. Standard EN 166 - Personal eye-protection - specifications

#### Skin and body protection:

Wear suitable protective clothing, e.g. lab coats, coveralls or flame resistant clothing.

#### Respiratory protection:

None necessary during routine operations. See Sections 5 & 6. Self contained breathing apparatus (SCBA) or positive pressure airline with mask are to be used in oxygen-deficient atmospheres. Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask. Gas filters may be used if all surrounding conditions e.g. type and concentration of the contaminant(s) and duration of use are known. Use gas filters with full face mask, where exposure limits may be exceeded for a short-term period, e.g. connecting or disconnecting containers. Gas filters do not protect against oxygen deficiency. Standard EN 14387 - Gas filter(s), combined filter(s) and standard EN136, full face masks .

#### Personal protective equipment symbol(s):



#### Thermal hazard protection:

None necessary during routine operations.

#### Other information:

Wear safety shoes while handling containers. Standard EN ISO 20345 - Personal protective equipment - Safety footwear.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|  |  |
|--|--|
| Physical state                             | : Gas  |
| Appearance                                 | : Clear, colorless gas.                      |
| Colour                                     | : Colourless                                 |
| Odour                                      | : Odourless                                  |
| Odour threshold                            | : No data available                          |
| pH   | : Not applicable for gases and gas mixtures. |
| Relative evaporation rate (butylacetate=1) | : No data available                          |
| Relative evaporation rate (ether=1)        | : Not applicable for gases and gas mixtures. |
| Melting point                              | : No data available                          |
| Freezing point                             | : No data available                          |
| Boiling point                              | : No data available                          |
| Boiling range                              | : No data available                          |
| Flash point                                | : Not applicable (non-flammable gas)         |
| Auto-ignition temperature                  | : Non flammable.                             |
| Decomposition temperature                  | : Not applicable.                            |
| Flammability (solid, gas)                  | : See Section 2.1 and 2.2<br>Non flammable.  |
| Vapour pressure                            | : Not applicable.                            |

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|                                  |                                       |
|----------------------------------|---------------------------------------|
| Vapour pressure at 50 °C         | : Not applicable.                     |
| Relative vapour density at 20 °C | : Not applicable.                     |
| Relative density                 | : No data available                   |
| Relative gas density             | : Heavier than air                    |
| Solubility                       | : Water: No data available            |
| Log Pow                          | : Not applicable for gas mixtures.    |
| Log Kow                          | : Not applicable for gas mixtures.    |
| Viscosity, dynamic               | : No reliable data available.         |
| Explosive properties             | : Not applicable (non-flammable gas). |
| Oxidising properties             | : None.                               |
| Explosive limits                 | : Not applicable (non-flammable gas)  |
| Lower explosive limit (LEL)      | : No data available                   |
| Upper explosive limit (UEL)      | : No data available                   |

### 9.2. Other information

|                        |   |
|------------------------|---|
| Additional information | : Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level |
|------------------------|---|

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

|                                    |   |
|------------------------------------|---|
| Reactivity                         | : None known.   |
| Chemical stability                 | : Stable under normal conditions.   |
| Possibility of hazardous reactions | : None known.   |
| Conditions to avoid                | : None under recommended storage and handling conditions (see section 7). Avoid moisture in installation systems. |
| Incompatible materials             | : None known. For additional information on compatibility refer to ISO 11114.                                     |
| Hazardous decomposition products   | : Under normal conditions of storage and use hazardous decomposition products should not be produced.             |

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

|                             |                  |
|-----------------------------|------------------|
| Acute toxicity (oral)       | : Not classified |
| Acute toxicity (dermal)     | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

| ALTIG                                     |                   |
|---|-------------------|
| LD50 oral rat                             | No data available |
| LD50 oral                                 | No data available |
| LD50 dermal rat                           | No data available |
| LD50 dermal rabbit                        | No data available |
| LD50 dermal                               | No data available |
| LC50 inhalation rat (mg/l)                | No data available |
| LC50 inhalation rat (ppm)                 | No data available |
| LC50 inhalation rat (Dust/Mist - mg/l/4h) | No data available |
| LC50 inhalation rat (Vapours - mg/l/4h)   | No data available |
| ATE CA (oral)                             | No data available |
| ATE CA (Dermal)                           | No data available |
| ATE CA (Gases)                            | No data available |
| ATE CA (vapours)                          | No data available |
| ATE CA (dust,mist)                        | No data available |

| Argon (7440-37-1)         |                |
|---------------------------|----------------|
| LC50 inhalation rat (ppm) | 820000 ppm/4h  |
| ATE CA (Gases)            | 820000 ppmv/4h |

| Helium (Compressed) (7440-59-7) |                |
|---------------------------------|----------------|
| LC50 inhalation rat (ppm)       | 820000 ppm/4h  |
| ATE CA (Gases)                  | 820000 ppmv/4h |

|                           |  |
|---------------------------|--|
| Skin corrosion/irritation | : Not classified<br>pH: Not applicable for gases and gas mixtures. |
|---------------------------|--|

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|   |   |
|---|---|
| Serious eye damage/irritation                               | : Not classified<br>pH: Not applicable for gases and gas mixtures.  |
| Respiratory or skin sensitization                           | : Not classified  |
| Germ cell mutagenicity                                      | : Not classified  |
| Carcinogenicity   | : Not classified  |
| Reproductive toxicity                                       | : Not classified  |
| STOT-single exposure  | : Not classified  |
| STOT-repeated exposure                                      | : Not classified  |
| Aspiration hazard   | : Not classified  |
| Likely routes of exposure                                   | : Inhalation.   |
| Effects on humans   | : No data available   |
| Potential adverse human health effects and symptoms         | : No data available   |
| Expected Symptoms/Effects, Acute and Delayed                | : No data available   |
| Symptoms/effects  | : No data available   |
| Symptoms/effects after inhalation                           | : May displace oxygen and cause rapid suffocation.  |
| Symptoms/effects after skin contact                         | : Adverse effects not expected from this product.   |
| Symptoms/effects after eye contact                          | : Adverse effects not expected from this product.   |
| Symptoms/effects after ingestion                            | : Ingestion is not considered a potential route of exposure.  |
| Symptoms/effects upon intravenous administration            | : Not known.  |
| Most Important Symptoms/Effects                             | : No data available   |
| Most important symptoms and effects, both acute and delayed | : In high concentrations may cause asphyxiation. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation. Refer to section 11. |
| Chronic symptoms  | : Adverse effects not expected from this product.   |
| Other information   | : No data available   |

### SECTION 12: Ecological information

#### 12.1. Toxicity

|                          |                      |
|--------------------------|----------------------|
| Ecology - general        | : No data available. |
| Acute aquatic toxicity   | : Not classified     |
| Chronic aquatic toxicity | : Not classified     |

#### ALTIG

|         |                                  |
|---------|----------------------------------|
| Log Kow | Not applicable for gas mixtures. |
| Log Pow | Not applicable for gas mixtures. |

#### Argon (7440-37-1)

|         |  |
|---------|--|
| Log Pow | Not applicable for inorganic products. |
|---------|--|

#### Helium (Compressed) (7440-59-7)

|         |  |
|---------|--|
| Log Pow | Not applicable for inorganic products. |
|---------|--|

#### 12.2. Persistence and degradability

#### ALTIG

|                               |                    |
|-------------------------------|--------------------|
| Persistence and degradability | No data available. |
|-------------------------------|--------------------|

#### Argon (7440-37-1)

|                               |  |
|-------------------------------|--|
| Persistence and degradability | No ecological damage caused by this product. |
|-------------------------------|--|

#### Helium (Compressed) (7440-59-7)

|                               |  |
|-------------------------------|--|
| Persistence and degradability | No ecological damage caused by this product. |
|-------------------------------|--|

#### 12.3. Bioaccumulative potential

#### ALTIG

|                           |                                  |
|---------------------------|----------------------------------|
| Bioaccumulative potential | No data available.               |
| Log Pow                   | Not applicable for gas mixtures. |
| Log Kow                   | Not applicable for gas mixtures. |

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| Argon (7440-37-1)         |  |
|---------------------------|--|
| Bioaccumulative potential | No ecological damage caused by this product. |
| Log Pow                   | Not applicable for inorganic products.       |

| Helium (Compressed) (7440-59-7) |  |
|---------------------------------|--|
| Bioaccumulative potential       | No ecological damage caused by this product. |
| Log Pow                         | Not applicable for inorganic products.       |

### 12.4. Mobility in soil

| ALTIG          |  |
|----------------|--|
| Ecology - soil | Because of its high volatility, the product is unlikely to cause ground or water pollution. Partition into soil is unlikely. |
| Log Pow        | Not applicable for gas mixtures.   |
| Log Kow        | Not applicable for gas mixtures.   |

| Argon (7440-37-1) |  |
|-------------------|--|
| Ecology - soil    | No ecological damage caused by this product. |
| Log Pow           | Not applicable for inorganic products.       |

| Helium (Compressed) (7440-59-7) |  |
|---------------------------------|--|
| Ecology - soil                  | No ecological damage caused by this product. |
| Log Pow                         | Not applicable for inorganic products.       |

### 12.5. Other adverse effects

|                       |                                       |
|-----------------------|---------------------------------------|
| Ozone                 | : Not classified                      |
| Effect on ozone layer | : No known effects from this product. |
| Other adverse effects | : No known effects from this product. |

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

|  |  |
|--|--|
| Waste treatment methods                    | : Contact supplier if guidance is required. Ensure that the emission levels from local regulations or operating permits are not exceeded. May be vented to atmosphere in a well ventilated place. Do not discharge into any place where its accumulation could be dangerous. Return unused product in original cylinder to supplier. |
| Product/Packaging disposal recommendations | : Refer to the CGA Pamphlet P-63 "Disposal of Gases" available at <a href="http://www.cganet.com">www.cganet.com</a> for more guidance on suitable disposal methods.   |
| Additional information                     | : External treatment and disposal of waste should comply with applicable local and/or national regulations.  |

## SECTION 14: Transport information

### 14.1. Basic shipping description

In accordance with TDG

#### Transportation of Dangerous Goods

|                                |   |
|--------------------------------|---|
| UN-No. (TDG)                   | : UN1956  |
| TDG Primary Hazard Classes     | : 2.2 - Class 2.2 - Non-Flammable, Non-Toxic Gas.                 |
| Transport Document Description | : UN1956 Compressed gas, n.o.s. (Argon, Helium (Compressed)), 2.2 |
| Proper Shipping Name           | : Compressed gas, n.o.s.<br>Argon, Helium (Compressed)            |
| Hazard labels (TDG)            | : 2.2 - Non-flammable, non-toxic gases                            |





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|   |   |
|---|---|
| TDG Special Provisions  | : 16 - (1) The technical name of at least one of the most dangerous substances that predominantly contributes to the hazard or hazards posed by the dangerous goods must be shown, in parentheses, on the shipping document following the shipping name in accordance with clause 3.5(1)(c)(ii)(A) of Part 3 (Documentation). The technical name must also be shown, in parentheses, on a small means of containment or on a tag following the shipping name in accordance with subsections 4.11(2) and (3) of Part 4 (Dangerous Goods Safety Marks). (2) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a shipping document or on a small means of containment when Canadian law for domestic transport or an international convention for international transport prohibits the disclosure of the technical name: (a)UN1544, ALKALOID SALTS, SOLID, N.O.S. or ALKALOIDS, SOLID, N.O.S.; (b)UN1851, MEDICINE, LIQUID, TOXIC, N.O.S.; (c)UN3140, ALKALOID SALTS, LIQUID, N.O.S. or ALKALOIDS, LIQUID, N.O.S.; (d)UN3248, MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S.; or (e)UN3249, MEDICINE, SOLID, TOXIC, N.O.S. An example in Canada is the "Food and Drugs Act". (3) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a small means of containment: (a)UN2814, INFECTIOUS SUBSTANCE, AFFECTING HUMANS; or (b)UN2900, INFECTIOUS SUBSTANCE, AFFECTING ANIMALS. SOR/2014-306<br>148 - (1) Part 5 (Means of Containment) does not apply to radiation detectors that contain these dangerous goods in non-refillable pressure receptacles if (a)the working pressure in each receptacle is less than 5 000 KPa; (b)the capacity of each receptacle is less than 12 L; (c)each receptacle has a minimum burst pressure of (i)at least 3 times the working pressure, when the receptacle is fitted with a relief device, or (ii)at least 4 times the working pressure, when the receptacle is not fitted with a relief device; (d)each receptacle is manufactured from material that will not fragment upon rupture; (e)each detector is manufactured under a quality assurance program; ISO 9001:2008 is an example of a quality assurance program. (f)the detectors are transported in strong outer means of containment; and (g)a detector in its outer means of containment is capable of withstanding a 1.2 m drop test without breakage of the detector or rupture of the outer means of containment. (2)Part 5 (Means of Containment) does not apply to radiation detectors that contain these dangerous goods in non-refillable pressure receptacles and that are included in equipment, if (a)the conditions set out in paragraphs (1)(a) to (e) are met; and (b)the equipment is contained in a strong outer means of containment or the equipment affords the detectors with protection that is equivalent to that provided by a strong outer means of containment. (3)These Regulations, except for Part 1 (Coming into Force, Repeal, Interpretation, General Provisions and Special Cases) and Part 2 (Classification), do not apply to radiation detectors that contain these dangerous goods in non-refillable pressure receptacles, including detectors in radiation detection systems, if the detectors meet the requirements of subsection (1) or (2), as applicable, and the capacity of the receptacles that contain the detectors is less than 50 mL. SOR/2014-306 |
| Explosive Limit and Limited Quantity Index                                  | : 0.125 L   |
| Excepted quantities (TDG)   | : E0  |
| Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index | : 75 L  |

### 14.2. Transport information/DOT - USA

#### Department of Transport

|  |   |
|--|---|
| DOT NA no.                               | : UN1956  |
| UN-No.(DOT)                              | : 1956  |
| DOT Symbols                              | : G - Identifies PSN requiring a technical name                 |
| Transport Document Description           | : UN1956 Compressed gas, n.o.s., 2.2                            |
| Proper Shipping Name (DOT)               | : Compressed gas, n.o.s.  |
| Contains Statement Field Selection (DOT) | : DOT_TECHNICAL - Proper Shipping Name - Technical (DOT)        |
| Class (DOT)                              | : 2.2 - Class 2.2 - Non-flammable compressed gas 49 CFR 173.115 |
| Division (DOT)                           | : 2.2   |
| Hazard labels (DOT)                      | : 2.2 - Non-flammable gas                                       |



|  |           |
|--|-----------|
| Dangerous for the environment                                    | : No      |
| DOT Packaging Exceptions (49 CFR 173.xxx)                        | : 306;307 |
| DOT Packaging Non Bulk (49 CFR 173.xxx)                          | : 302;305 |
| DOT Packaging Bulk (49 CFR 173.xxx)                              | : 314;315 |
| DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) | : 75 kg   |
| DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)     | : 150 kg  |



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|                                       |  |
|---------------------------------------|--|
| DOT Vessel Stowage Location           | : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.  |
| Emergency Response Guide (ERG) Number | : 126  |
| Special 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:<br>- Ensure there is adequate ventilation. - 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. |
| Other information                     | : No supplementary information available.  |

### 14.3. Air and sea transport

#### IMDG

|                                       |                                       |
|---------------------------------------|---------------------------------------|
| UN-No. (IMDG)                         | : 1956                                |
| Proper Shipping Name (IMDG)           | : Compressed gas, n.o.s.              |
| Transport Document Description (IMDG) | : UN 1956 Compressed gas, n.o.s., 2.2 |
| Class (IMDG)                          | : 2 - Gases                           |

#### IATA

|                                       |                                       |
|---------------------------------------|---------------------------------------|
| UN-No. (IATA)                         | : 1956                                |
| Proper Shipping Name (IATA)           | : Compressed gas, n.o.s.              |
| Transport Document Description (IATA) | : UN 1956 Compressed gas, n.o.s., 2.2 |
| Class (IATA)                          | : 2                                   |

## SECTION 15: Regulatory information

### 15.1. National regulations

#### Argon (7440-37-1)

Listed on the Canadian DSL (Domestic Substances List)

#### Helium (Compressed) (7440-59-7)

Listed on the Canadian DSL (Domestic Substances List)

### 15.2. International regulations

#### Argon (7440-37-1)

Listed on the AICS (Australian Inventory of Chemical Substances)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)  
Listed on the Korean ECL (Existing Chemicals List)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on the United States TSCA (Toxic Substances Control Act) inventory  
Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### Helium (Compressed) (7440-59-7)

Listed on the AICS (Australian Inventory of Chemical Substances)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)  
Listed on the Korean ECL (Existing Chemicals List)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on the United States TSCA (Toxic Substances Control Act) inventory  
Listed on INSQ (Mexican National Inventory of Chemical Substances)

## SECTION 16: Other information

|                   |   |
|-------------------|---|
| Date of issue     | : 02/27/2019  |
| Training advice   | : The hazard of asphyxiation is often overlooked and must be stressed during operator training.   |
| Other information | : Classification using data from databases maintained by the European Industrial Gases Association (EIGA). Classification in accordance with calculation methods of regulation (EC) 1272/2008 CLP / (EC) 1999/45 DPD. |

Full text of H-statements:

|      |   |
|------|---|
| H280 | Contains gas under pressure; may explode if heated. |
|------|---|

Abbreviations and acronyms:

# ALTIG

## Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

|  |   |
|--|---|
|  | ATE - Acute Toxicity Estimate   |
|  | CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008                         |
|  | REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
|  | EINECS - European Inventory of Existing Commercial Chemical Substances                                    |
|  | CAS# - Chemical Abstract Service number   |
|  | PPE - Personal Protection Equipment   |
|  | LC50 - Lethal Concentration to 50 % of a test population  |
|  | RMM - Risk Management Measures  |
|  | PBT - Persistent, Bioaccumulative and Toxic   |
|  | vPvB - Very Persistent and Very Bioaccumulative   |
|  | STOT- SE : Specific Target Organ Toxicity - Single Exposure   |
|  | CSA - Chemical Safety Assessment  |
|  | EN - European Standard  |
|  | UN - United Nations   |
|  | ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road                 |
|  | IATA - International Air Transport Association  |
|  | IMDG code - International Maritime Dangerous Goods  |
|  | RID - Regulations concerning the International Carriage of Dangerous Goods by Rail                        |
|  | WGK - Water Hazard Class  |
|  | STOT - RE : Specific Target Organ Toxicity - Repeated Exposure  |

SDS Canada Air Liquide

*THE INFORMATION, RECOMMENDATIONS AND DATA CONTAINED IN THIS DOCUMENT ARE INTENDED TO BE USED BY PROPERLY TRAINED AND QUALIFIED PERSONNEL ONLY AND AT THEIR SOLE RISKS AND DISCRETION. THE INFORMATION, RECOMMENDATIONS AND DATA HEREIN CONTAINED ARE DERIVED FROM SOURCES WHICH WE BELIEVE TO BE RELIABLE. HOWEVER, AIR LIQUIDE CANADA INC. MAKES NO REPRESENTATION AND GIVES NO WARRANTY OF ANY KIND WHATSOEVER WITH RESPECT TO THEIR ACCURACY OR COMPLETENESS AND ASSUMES NO LIABILITY FOR DAMAGES OR LOSS ARISING DIRECTLY OR INDIRECTLY FROM THEIR USE, WHETHER PROPER OR IMPROPER.*