Safety Data Sheet

Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier

Product Name: Methane (10%) in Argon (Balance)
Synonyms: P-10 (Nuclear Counter Mixture); P-10 Gas Mixture
Product Code: 115041

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

Relevant identified use(s): Semiconductor Uses

1.3 Details of the supplier of the safety data sheet

Manufacturer: Air Liquide
2700 Post Oak Blvd.
Houston, TX 77056
United States
www.us.airliquide.com
sds@airliquide.com

Telephone (Technical): 713-896-2896
Telephone (Technical): 800-819-1704

1.4 Emergency telephone number

Manufacturer: 800-424-9300 - CHEMTREC
Manufacturer: +1 703-527-3887 - Outside United States

Section 2: Hazards Identification

EU/EEC

According to EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

2.1 Classification of the substance or mixture

CLP: Compressed Gas - H280
DSD/DPD: Classification criteria not met

2.2 Label Elements

CLP

WARNING

Hazard statements: H280 - Contains gas under pressure; may explode if heated
Precautionary statements
2.1 Classification of the substance or mixture

OSHAC 2012

Compressed Gas - H280

2.2 Label elements

OSHAC 2012

WARNING

Hazard statements

Contains gas under pressure; may explode if heated - H280

Precautionary statements

Storage/Disposal

Store in a well-ventilated place. - P403

2.3 Other hazards

OSHAC 2012


2.1 Classification of the substance or mixture

WHMIS

Compressed Gas - A

2.2 Label elements

WHMIS

Compressed Gas - A

2.3 Other hazards

WHMIS

In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

2.4 Other information

NFPA

Fire Instability
Note: This SDS has been developed for various gas mixtures with the composition of components within the ranges listed in Section 3 (Composition/Information on Ingredients). All classifications provided are based on the highest end of the range provided for each component. Refer to the product label for information on the actual composition of the product.

Section 3 - Composition/Information on Ingredients

3.1 Substances

Material does not meet the criteria of a substance in accordance with Regulation (EC) No 1272/2008.

3.2 Mixtures

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Identifiers</th>
<th>%</th>
<th>LD50/LC50</th>
<th>Classifications According to Regulation/Directive</th>
</tr>
</thead>
<tbody>
<tr>
<td>Argon</td>
<td>CAS:7440-37-1 EC Number:231-147-0</td>
<td>Balance</td>
<td>NDA</td>
<td>EU DSD/DPD: Not Classified</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>EU CLP: Self Classified - Press. Gas - Comp, H280</td>
</tr>
<tr>
<td>Methane</td>
<td>CAS:74-82-8 EC Number:200-812-7 EU Index:601-001-00-4</td>
<td>10%</td>
<td>NDA</td>
<td>EU DSD/DPD: Annex I - F+; R12</td>
</tr>
</tbody>
</table>

See Section 16 for full text of H-statements and R-phrases.

Section 4 - First Aid Measures

4.1 Description of first aid measures

Inhalation  First aid is not expected to be necessary if material is used under ordinary conditions and as recommended.

Skin  Although exposure is unlikely, in case of contact immediately flush skin with running water. If skin irritation develops get medical advice/attention.

Eye  First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. If irritation develops and persists, get medical attention.

Ingestion  Ingestion is not considered a potential route of exposure.

4.2 Most important symptoms and effects, both acute and delayed

Refer to Section 11 - Toxicological Information.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to Physician  All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred. A potential health hazard associated with this gas is anoxia.

4.4 Other information

Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. RESCUERS SHOULD NOT ATTEMPT TO RETRIEVE VICTIMS OF EXPOSURE TO GASES WITHOUT ADEQUATE PERSONAL PROTECTIVE EQUIPMENT. At a minimum, Self-Contained Breathing
Apparatus must be worn. Victim(s) who experience any adverse effect after over-exposure to this gas mixture must be taken for medical attention. Rescuers should be taken for medical attention if necessary. Take a copy of the label and the MSDS to physician or other health professional with victim(s).

Section 5 - Firefighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media | Use extinguishing agent suitable for type of surrounding fire.
Unsuitable Extinguishing Media | No data available

5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards | Containers may explode when heated. Ruptured cylinders may rocket.
Hazardous Combustion Products | No data available

5.3 Advice for firefighters

Structural firefighters’ protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible.
Always wear thermal protective clothing when handling refrigerated/cryogenic liquids. Wear positive pressure self-contained breathing apparatus (SCBA).
Move containers from fire area if you can do it without risk.
FIRE: If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions.
FIRE INVOLVING TANKS: Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
FIRE INVOLVING TANKS: Cool containers with flooding quantities of water until well after fire is out.
FIRE INVOLVING TANKS: Do not direct water at source of leak or safety devices; icing may occur.
FIRE INVOLVING TANKS: Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
FIRE INVOLVING TANKS: ALWAYS stay away from tanks engulfed in fire.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions | Ventilate the area before entry. Do not walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
Emergency Procedures | Keep unauthorized personnel away. Keep out of low areas. Stay upwind. Do not direct water at spill or source of leak. LARGE SPILL: Consider initial downwind evacuation for at least 500 meters (1/3 mile)

6.2 Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas.

6.3 Methods and material for containment and cleaning up

Containment/Clean-up Measures | Stop leak if you can do it without risk. Do not direct water at spill or source of leak. Use water spray to reduce vapors; do not put water directly on leak, spill area or inside container. If possible, turn leaking containers so that gas escapes rather than liquid. Isolate area until gas has dispersed.

6.4 Reference to other sections
Section 7 - Handling and Storage

7.1 Precautions for safe handling
Handling

Use only with adequate ventilation. Ventilate closed spaces before entering. Be aware of any signs of dizziness or fatigue, especially if work is done in a poorly ventilated area; exposures to fatal concentrations of this gas mixture could occur without any significant warning symptoms, due to olfactory fatigue or oxygen deficiency. Wear appropriate personal protective equipment, avoid direct contact. Cylinders should be firmly secured to prevent falling or being knocked-over. Do not attempt to repair, adjust, or in any other way modify cylinders. If there is a malfunction or another type of operational problem, contact nearest distributor immediately. Empty containers retain product residue and can be hazardous. Do not cut, weld, puncture or incinerate container.

7.2 Conditions for safe storage, including any incompatibilities
Storage

Store in a cool, dry, well-ventilated place. Protect cylinders against physical damage. Cylinders should be firmly secured to prevent falling or being knocked-over.

7.3 Specific end use(s)

Refer to Section 1.2 - Relevant identified uses.

Section 8 - Exposure Controls/Personal Protection

8.1 Control parameters

<table>
<thead>
<tr>
<th>Exposure Limits/Guidelines</th>
<th>Result</th>
<th>ACGIH</th>
<th>Canada Ontario</th>
<th>Ireland</th>
<th>Israel</th>
<th>Portugal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methane (74-82-8)</td>
<td>TWAs</td>
<td>1000 ppm TWA (listed under Aliphatic hydrocarbon gases: Alkane C1-4)</td>
<td>1000 ppm TWA</td>
<td>1000 ppm TWA</td>
<td>1000 ppm TWA (gas, listed under Aliphatic hydrocarbon gases: Alkane C1-4)</td>
<td>1000 ppm TWA [VLE-MP]</td>
</tr>
<tr>
<td>Methane (74-82-8)</td>
<td>TWAs</td>
<td>1000 ppm TWA</td>
<td>1000 ppm TWA</td>
<td>1000 ppm TWA [VLA-ED]</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Exposure Control Notations

Portugal

• Argon (7440-37-1): Simple Asphyxiants: (Simple Asphyxiant)

Ireland

• Argon (7440-37-1): Simple Asphyxiants: (Asphyxiant)
• Methane (74-82-8): Simple Asphyxiants: (Asphyxiant)

Spain

• Argon (7440-37-1): Simple Asphyxiants: (simple asphyxiant)

8.2 Exposure controls

Engineering Measures/Controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal Protective Equipment

Respiratory

In case of insufficient ventilation, wear suitable respiratory equipment. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149.
Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

**Eye/Face**
- Wear safety glasses.

**Skin/Body**
- Wear leather gloves when handling cylinders.

**Environmental Exposure Controls**
- Follow best practice for site management and disposal of waste. Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways.

**Key to abbreviations**
- ACGIH = American Conference of Governmental Industrial Hygiene
- TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

---

### Section 9 - Physical and Chemical Properties

#### 9.1 Information on Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Material Description</th>
<th>Appearance/Description</th>
<th>Physical Form</th>
<th>Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Physical Form</strong></td>
<td>Gas</td>
<td></td>
<td>-185.9°C(-302.62°F)</td>
</tr>
<tr>
<td><strong>Color</strong></td>
<td>Colorless</td>
<td></td>
<td>-189.2°C(-308.56°F)</td>
</tr>
<tr>
<td><strong>Odor Threshold</strong></td>
<td>None</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**General Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point</td>
<td>-185.9°C(-302.62°F)</td>
<td></td>
</tr>
<tr>
<td>Melting Point</td>
<td>-189.2°C(-308.56°F)</td>
<td></td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Data lacking</td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>Not relevant</td>
<td></td>
</tr>
<tr>
<td>Specific Gravity/Relative Density</td>
<td>Data lacking</td>
<td></td>
</tr>
<tr>
<td>Density</td>
<td>0.103 lb(s)/ft³ @ 21.1°C(69.98°F)</td>
<td>Argon</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>0.056 % @ 0°C(32°F)</td>
<td></td>
</tr>
<tr>
<td>Viscosity</td>
<td>Data lacking</td>
<td></td>
</tr>
<tr>
<td>Explosive Properties</td>
<td>Data lacking</td>
<td></td>
</tr>
<tr>
<td>Oxidizing Properties</td>
<td>Data lacking</td>
<td></td>
</tr>
</tbody>
</table>

**Volutility**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vapor Pressure</td>
<td>Not relevant</td>
<td></td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not relevant</td>
<td></td>
</tr>
<tr>
<td>Vapor Density</td>
<td>1.38 Argon</td>
<td></td>
</tr>
</tbody>
</table>

**Flammability**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash Point</td>
<td>Data lacking</td>
<td></td>
</tr>
<tr>
<td>UEL</td>
<td>Data lacking</td>
<td></td>
</tr>
<tr>
<td>LEL</td>
<td>Data lacking</td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Flammable gas.</td>
<td></td>
</tr>
</tbody>
</table>

**Environmental**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Octanol/Water Partition coefficient</td>
<td>Data lacking</td>
<td></td>
</tr>
</tbody>
</table>

#### 9.2 Other Information
- No additional physical and chemical parameters noted.

---

### Section 10: Stability and Reactivity

#### 10.1 Reactivity
- No dangerous reaction known under conditions of normal use.

#### 10.2 Chemical stability
- Stable under normal temperatures and pressures.
10.3 Possibility of hazardous reactions
   Hazardous polymerization will not occur.

10.4 Conditions to avoid
   Excess heat.

10.5 Incompatible materials
   Halogens, oxidizing materials, combustible materials.

10.6 Hazardous decomposition products
   Oxides of carbon.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

<table>
<thead>
<tr>
<th>GHS Properties</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
<td>EU/CLP • Classification criteria not met</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>Aspiration Hazard</td>
<td>EU/CLP • Classification criteria not met</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>EU/CLP • Classification criteria not met</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>Germ Cell Mutagenicity</td>
<td>EU/CLP • Classification criteria not met</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>Skin corrosion/Irritation</td>
<td>EU/CLP • Classification criteria not met</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>EU/CLP • Classification criteria not met</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>STOT-RE</td>
<td>EU/CLP • Classification criteria not met</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>STOT-SE</td>
<td>EU/CLP • Classification criteria not met</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>Toxicity for Reproduction</td>
<td>EU/CLP • Classification criteria not met</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>Respiratory sensitization</td>
<td>EU/CLP • Classification criteria not met</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>Serious eye damage/Irritation</td>
<td>EU/CLP • Classification criteria not met</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
</tbody>
</table>

Potential Health Effects

Inhalation
- Acute (Immediate)  Under normal conditions of use, no health effects are expected.
- Chronic (Delayed)   No data available

Skin
- Acute (Immediate)  Under normal conditions of use, no health effects are expected.
- Chronic (Delayed)   Under normal conditions of use, no health effects are expected.
Eye

**Acute (Immediate)**  
Under normal conditions of use, no health effects are expected.

**Chronic (Delayed)**  
Under normal conditions of use, no health effects are expected.

**Ingestion**

**Acute (Immediate)**  
Ingestion is not anticipated to be a likely route of exposure to this product.

**Chronic (Delayed)**  
Ingestion is not anticipated to be a likely route of exposure to this product.

---

## Section 12 - Ecological Information

### 12.1 Toxicity

Material data lacking.

### 12.2 Persistence and degradability

Material data lacking.

### 12.3 Bioaccumulative potential

Material data lacking.

### 12.4 Mobility in Soil

Material data lacking.

### 12.5 Results of PBT and vPvB assessment

PBT and vPvB assessment has not been conducted for this material.

### 12.6 Other adverse effects

No studies have been found.

---

## Section 13 - Disposal Considerations

### 13.1 Waste treatment methods

**Product waste**  
Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

**Packaging waste**  
Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

---

## Section 14 - Transport Information

<table>
<thead>
<tr>
<th></th>
<th>14.1 UN number</th>
<th>14.2 UN proper shipping name</th>
<th>14.3 Transport hazard class(es)</th>
<th>14.4 Packing group</th>
<th>14.5 Environmental hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT</td>
<td>UN1956</td>
<td>Compressed gas, n.o.s. (Methane, Argon)</td>
<td>2.2</td>
<td>NDA</td>
<td>NDA</td>
</tr>
<tr>
<td>TDG</td>
<td>UN1956</td>
<td>COMPRESSED GAS N.O.S. (Methane, Argon)</td>
<td>2.2</td>
<td>NDA</td>
<td>NDA</td>
</tr>
<tr>
<td>IMO/IMDG</td>
<td>UN1956</td>
<td>COMPRESSED GAS, N.O.S. (Methane, Argon)</td>
<td>2.2</td>
<td>NDA</td>
<td>NDA</td>
</tr>
<tr>
<td>IATA/ICAO</td>
<td>UN1956</td>
<td>COMPRESSED GAS, N.O.S. (Methane, Argon)</td>
<td>2.2</td>
<td>NDA</td>
<td>NDA</td>
</tr>
</tbody>
</table>

### 14.6 Special precautions for

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. If transporting these cylinders in vehicles, ensure these cylinders are not exposed to extremely high temperatures (as may occur in an enclosed vehicle on a hot day). Additionally, the vehicle should be well-ventilated during transportation.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Section 15 - Regulatory Information

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

SARA Hazard Classifications

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>MA</th>
<th>NJ</th>
<th>PA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Argon</td>
<td>7440-37-1</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Methane</td>
<td>74-82-8</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Inventory

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>Canada DSL</th>
<th>Canada NDSL</th>
<th>China</th>
<th>EU EINECS</th>
<th>EU ELNICS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Argon</td>
<td>7440-37-1</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Methane</td>
<td>74-82-8</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

Inventory (Con’t.)

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>TSCA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Argon</td>
<td>7440-37-1</td>
<td>Yes</td>
</tr>
<tr>
<td>Methane</td>
<td>74-82-8</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Canada

Labor

Canada - WHMIS - Classifications of Substances
- Argon 7440-37-1 A
- Methane 74-82-8 A, B1

Canada - WHMIS - Ingredient Disclosure List
- Argon 7440-37-1 Not Listed
- Methane 74-82-8 Not Listed

Environment

Canada - CEPA - Priority Substances List
- Argon 7440-37-1 Not Listed
- Methane 74-82-8 Not Listed

China

Environment

China - Ozone Depleting Substances - First Schedule
- Argon 7440-37-1 Not Listed
- Methane 74-82-8 Not Listed
### China - Ozone Depleting Substances - Second Schedule
- **Argon** 7440-37-1 Not Listed
- **Methane** 74-82-8 Not Listed

### China - Ozone Depleting Substances - Third Schedule
- **Argon** 7440-37-1 Not Listed
- **Methane** 74-82-8 Not Listed

### Other
- **China - Annex I & II - Controlled Chemicals Lists**
  - **Argon** 7440-37-1 Not Listed
  - **Methane** 74-82-8 Not Listed
- **China - Dangerous Goods List**
  - **Argon** 7440-37-1 (compressed or refrigerated liquid)
  - **Methane** 74-82-8 (compressed or refrigerated liquid)
- **China - Export Control List - Part I Chemicals**
  - **Argon** 7440-37-1 Not Listed
  - **Methane** 74-82-8 Not Listed

### Europe
- **Other**
  - **EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification**
    - **Argon** 7440-37-1 Not Listed
    - **Methane** 74-82-8 F+; R12
  - **EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits**
    - **Argon** 7440-37-1 Not Listed
    - **Methane** 74-82-8 Not Listed
  - **EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling**
    - **Argon** 7440-37-1 Not Listed
    - **Methane** 74-82-8 F+ R:12 S:(2)-9-16-33
  - **EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations**
    - **Argon** 7440-37-1 Not Listed
    - **Methane** 74-82-8 Not Listed
  - **EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases**
    - **Argon** 7440-37-1 Not Listed
    - **Methane** 74-82-8 S:(2)-9-16-33

### Germany
- **Environment**
  - **Germany - TA Luft - Types and Classes**
    - **Argon** 7440-37-1 Not Listed
    - **Methane** 74-82-8 Not Listed
  - **Germany - Water Classification (VwVwS) - Annex 1**
    - **Argon** 7440-37-1 ID Number 1348, not considered hazardous to

**Preparation Date:** 22/December/2014
**Revision Date:** 23/December/2014
**Format:** EU CLP/REACH Language: English (US)
**WHMIS, EU CLP, EU DSD/DPD, OSHA HCS 2012**
### Methane (10%) in Argon (Balance)

- **Methane** 74-82-8
  - ID Number 1343, not considered hazardous to water.

#### Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes
- **Argon** 7440-37-1 Not Listed
- **Methane** 74-82-8 Not Listed

#### Germany - Water Classification (VwVwS) - Annex 3
- **Argon** 7440-37-1 Not Listed
- **Methane** 74-82-8 Not Listed

#### Other
- **Germany - Specifically Regulated Chemicals in TRGS**
  - **Argon** 7440-37-1 Not Listed
  - **Methane** 74-82-8 Not Listed

#### Portugal
- **Portugal - Prohibited Substances**
  - **Argon** 7440-37-1 Not Listed
  - **Methane** 74-82-8 Not Listed

#### United Kingdom
- **Environment**
  - **United Kingdom - Pollution Inventory - Schedule 1 - Thresholds for Releases to Air**
    - **Argon** 7440-37-1 Not Listed
    - **Methane** 74-82-8 10000 kg
  - **United Kingdom - Workplace Exposure Limits (WELs) - Substances in Review**
    - **Argon** 7440-37-1 Not Listed
    - **Methane** 74-82-8 Not Listed
  - **United Kingdom - List of Dangerous Substances in Water**
    - **Argon** 7440-37-1 Not Listed
    - **Methane** 74-82-8 Not Listed

#### United States
- **Labor**
  - **U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals**
    - **Argon** 7440-37-1 Not Listed
    - **Methane** 74-82-8 Not Listed
  - **U.S. - OSHA - Specifically Regulated Chemicals**
    - **Argon** 7440-37-1 Not Listed
    - **Methane** 74-82-8 Not Listed
- **Environment**
  - **U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants**
    - **Argon** 7440-37-1 Not Listed
• Methane

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities
• Argon 7440-37-1 Not Listed
• Methane 74-82-8 Not Listed

U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities
• Argon 7440-37-1 Not Listed
• Methane 74-82-8 Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs
• Argon 7440-37-1 Not Listed
• Methane 74-82-8 Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs
• Argon 7440-37-1 Not Listed
• Methane 74-82-8 Not Listed

U.S. - CERCLA/SARA - Section 313 - Emission Reporting
• Argon 7440-37-1 Not Listed
• Methane 74-82-8 Not Listed

U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing
• Argon 7440-37-1 Not Listed
• Methane 74-82-8 Not Listed

United States - California

Environment
U.S. - California - Proposition 65 - Carcinogens List
• Argon 7440-37-1 Not Listed
• Methane 74-82-8 Not Listed

U.S. - California - Proposition 65 - Developmental Toxicity
• Argon 7440-37-1 Not Listed
• Methane 74-82-8 Not Listed

U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)
• Argon 7440-37-1 Not Listed
• Methane 74-82-8 Not Listed

U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)
• Argon 7440-37-1 Not Listed
• Methane 74-82-8 Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Female
• Argon 7440-37-1 Not Listed
• Methane 74-82-8 Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Male
• Argon 7440-37-1 Not Listed
• Methane 74-82-8 Not Listed

United States - Pennsylvania
15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out.

Section 16 - Other Information

Relevant Phrases (code & full text)
- H220 - Extremely flammable gas
- R12 - Extremely flammable.

Last Revision Date
22/December/2014

Preparation Date
22/December/2014

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To the best of Air Liquide’s knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either express or implied, are provided. The information contained herein relates only to this specific product. If this gas mixture is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.

Key to abbreviations
NDA = No Data Available