Safety Data Sheet
(Replaces ISC MSDS No. 1810-9127)

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

1.1 Product identifier
Product Name • Methane (12.001-50%), Nitrogen (Balance)
Document No. • 50043

1.2 Relevant identified uses of the substance or mixture and uses advised against
Relevant identified use(s) • Calibration Gas

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 • Flammable Gases 1 - H220
Compressed Gas - H280

DSD/DPD • Extremely Flammable (F+)
R12

2.2 Label Elements

CLP

DANGER

Hazard statements • H220 - Extremely flammable gas
H280 - Contains gas under pressure; may explode if heated

Precautionary statements

Prevention • P210 - Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.

Response • P377 - Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
United States (US)
According to OSHA 29 CFR 1910.1200 HCS

2.1 Classification of the substance or mixture
OSHA HCS 2012
- Flammable Gases 1 - H220
- Compressed Gas - H280
- Simple Asphyxiant

2.2 Label elements
OSHA HCS 2012

DANGER

Hazard statements
- Extremely flammable gas - H220
- Contains gas under pressure; may explode if heated - H280
- May displace oxygen and cause rapid suffocation.

Precautionary statements
Prevention
- Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking. - P210

Response
- Leaking gas fire: Do not extinguish, unless leak can be stopped safely. - P377
- Eliminate all ignition sources if safe to do so. - P381

Storage/Disposal
- Store in a well-ventilated place. - P403

2.3 Other hazards
OSHA HCS 2012

Canada
According to WHMIS

2.1 Classification of the substance or mixture
WHMIS
- Compressed Gas - A
- Flammable Gases - B1
2.2 Label elements

WHMIS

- Compressed Gas - A
- Flammable Gases - B1

2.3 Other hazards

WHMIS

- This material is a simple asphyxiant. May displace or reduce oxygen available for breathing especially in confined spaces.
- In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

2.4 Other information

NFPA

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>Classifications According to Regulation/Directive</th>
</tr>
</thead>
</table>

See Section 11 for Toxicological Information.

Section 4 - First Aid Measures

4.1 Description of first aid measures

Inhalation

- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. If signs/symptoms continue, get medical attention.

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 eye irritation persists: Get medical advice/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.

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
- SMALL FIRES: Dry chemical or CO2.
- LARGE FIRES: Water spray or fog.

Unsuitable Extinguishing Media
- No data available

5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards
- EXTREMELY FLAMMABLE
  - Will form explosive mixtures with air.
  - Vapors may travel to source of ignition and flash back.
  - Cylinders exposed to fire may vent and release flammable gas through pressure relief devices.
  - 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.
  - Wear positive pressure self-contained breathing apparatus (SCBA).
  - DO NOT EXTINGUISH A LEAKING GAS FIRE UNLESS LEAK CAN BE STOPPED
  - 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 1600 meters (1 mile) in all directions; also, consider initial evacuation for 1600 meters (1 mile) in all directions.
  - FIRE INVOLVING TANKS: ALWAYS stay away from tanks engulfed in fire.
  - FIRE INVOLVING TANKS: Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
  - FIRE INVOLVING TANKS: Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
  - 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: For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.
Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions
- Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not touch or walk through spilled material. Ventilate the area before entry.

Emergency Procedures
- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). As an immediate precautionary measure, isolate spill or leak area for at least 100 meters (330 feet) in all directions. Stop leak if you can do it without risk. Keep unauthorized personnel away. Keep out of low areas. Stay upwind. LARGE SPILL: Consider initial downwind evacuation for at least 800 meters (1/2 mile)

6.2 Environmental precautions
- Prevent spreading of vapors through sewers, ventilation systems and confined areas.

6.3 Methods and material for containment and cleaning up

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

6.4 Reference to other sections
- Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

Section 7 - Handling and Storage

7.1 Precautions for safe handling

Handling
- Keep away from heat and ignition sources – No Smoking. Take precautionary measures against static charges. All equipment used when handling the product must be grounded. Use only non-sparking tools. 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. Cylinders should be firmly secured to prevent falling or being knocked-over. Use explosion-proof - electrical, ventilating and/or lighting equipment. 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
- Cylinders should be stored in dry, well-ventilated areas away from sources of heat, ignition and direct sunlight. Do not allow area where cylinders are stored to exceed 52C (125F). Cylinders must be protected from the environment, and preferably kept at room temperature approximately 21C (70F). Protect cylinders against physical damage. Cylinders should be firmly secured to prevent falling or being knocked -over. Store locked up.

7.3 Specific end use(s)
- Refer to Section 1.2 - Relevant identified uses.

Section 8 - Exposure Controls/Personal Protection

8.1 Control parameters

Preparation Date: 13/November/2012
Revision Date: 11/December/2013
Format: EU CLP/REACH Language: English (US)
WHMIS, EU CLP, EU DSD/DPD, OSHA HCS 2012
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P/N 3581
**Exposure Limits/Guidelines**

<table>
<thead>
<tr>
<th>Result</th>
<th>ACGIH</th>
<th>Canada Ontario</th>
<th>Ireland</th>
<th>Israel</th>
<th>Portugal</th>
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<tbody>
<tr>
<td>Methane (74-82-8) 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>
</tbody>
</table>

**Exposure Control Notations**

**Portugal**

- Nitrogen (7727-37-9): **Simple Asphyxiants**: (Simple Asphyxiant)

**Ireland**

- Nitrogen (7727-37-9): **Simple Asphyxiants**: (Asphyxiant) | **Simple Asphyxiants**: (Asphyxiant)

**Spain**

- Nitrogen (7727-37-9): **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. Use explosion-proof - electrical, ventilating and/or lighting equipment.

**Personal Protective Equipment**

- **Respiratory**: In case of insufficient ventilation, wear suitable respiratory equipment.
- **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

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**Section 9 - Physical and Chemical Properties**

**9.1 Information on Physical and Chemical Properties**

<table>
<thead>
<tr>
<th>Material Description</th>
<th>Physical Form</th>
<th>Gas</th>
<th>Appearance/Description</th>
<th>Colorless gas with no odor.</th>
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<tbody>
<tr>
<td>Color</td>
<td>Colorless</td>
<td>Odor</td>
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<td>Odor Threshold</td>
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<td>Data lacking</td>
<td>Data lacking</td>
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<td>Decomposition Temperature</td>
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<td>pH</td>
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<td>Specific Gravity/Relative Density</td>
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<td>Water Solubility</td>
<td>Data lacking</td>
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<td>Viscosity</td>
<td>Data lacking</td>
<td>Explosive Properties</td>
<td>Data lacking</td>
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<td>Oxidizing Properties:</td>
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<td>Data lacking</td>
<td>Data lacking</td>
<td></td>
</tr>
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</table>

**Volatility**

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Preparation Date: 13/November/2012
Revision Date: 11/December/2013

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Vapor Pressure | Data lacking | Vapor Density | 0.759 to 1.031 Air=1
Evaporation Rate | Data lacking

**Flammability**
Flash Point | Data lacking | UEL | 15 %
LEL | 5 % | Autoignition | Data lacking
Flammability (solid, gas) | Flammable gas.

**Environmental**
Octanol/Water Partition coefficient | Data lacking

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, sparks, open flame.

10.5 Incompatible materials
- Nitrogen reacts with Li, Nd, and Ti at high temperatures.

10.6 Hazardous decomposition products
- No data available.

**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>
</tbody>
</table>
Route(s) of entry/exposure: Inhalation, Skin, Eye

Potential Health Effects:

Inhalation
   Acute (Immediate): This material is a simple asphyxiant. May displace or reduce oxygen available for breathing especially in confined spaces. If this material is released in a small, poorly ventilated area (i.e. an enclosed or confined space), an oxygen-deficient environment may occur. Individuals breathing such an atmosphere may experience symptoms which include headaches, ringing in ears, dizziness, drowsiness, unconsciousness, nausea, vomiting, and depression of all the senses. Under some circumstances of over-exposure, death may occur. The following effects associated with decreased levels of oxygen: increase in breathing and pulse rate, emotional upset, abnormal fatigue, nausea, vomiting, collapse, loss of consciousness, convulsive movements, respiratory collapse and death.

   Chronic (Delayed): No data available

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

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

Ingestion
   Acute (Immediate): Ingestion is not anticipated to be a likely route of exposure to this product.
   Chronic (Delayed): No data available

Carcinogenic Effects
   The components of this material are not found on the following lists: FEDERAL OSHA Z LIST, NTP and IARC; therefore, they are not considered to be, nor suspected to be, cancer-causing agents by these agencies.
12.5 Results of PBT and vPvB assessment
- No PBT and vPvB assessment has been conducted.

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 - TransportInformation

<table>
<thead>
<tr>
<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 UN1954</td>
<td>Compressed gas, flammable, n.o.s. (Methane, Nitrogen)</td>
<td>2.1</td>
<td>NDA</td>
<td>NDA</td>
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<tr>
<td>TDG UN1954</td>
<td>COMPRESSED GAS, FLAMMABLE, N.O.S. (Methane, Nitrogen)</td>
<td>2.1</td>
<td>NDA</td>
<td>Potential Marine Pollutant</td>
</tr>
<tr>
<td>IMO/IMDG UN1954</td>
<td>COMPRESSED GAS, FLAMMABLE, N.O.S. (Methane, Nitrogen)</td>
<td>2.1</td>
<td>NDA</td>
<td>NDA</td>
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<tr>
<td>IATA/ICAO UN1954</td>
<td>Compressed gas, flammable, n.o.s. (Methane, Nitrogen)</td>
<td>2.1</td>
<td>NDA</td>
<td>NDA</td>
</tr>
</tbody>
</table>

14.6 Special precautions for user
- 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
- Not relevant.

Section 15 - Regulatory Information

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

**SARA Hazard Classifications**: Acute, Fire, Pressure(Sudden Release of)

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>MA</th>
<th>NJ</th>
<th>PA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methane</td>
<td>74-82-8</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>7727-37-9</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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</tbody>
</table>
Methane (12.001-50%), Nitrogen (Balance)

### 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>
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<tbody>
<tr>
<td>Methane</td>
<td>74-82-8</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
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<tr>
<td>Nitrogen</td>
<td>7727-37-9</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
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</table>

### Inventory (Con't.)

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<thead>
<tr>
<th>Component</th>
<th>CAS</th>
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<tbody>
<tr>
<td>Methane</td>
<td>74-82-8</td>
<td>Yes</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>7727-37-9</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### Canada

#### Labor

- **Canada - WHMIS - Classifications of Substances**
  - Nitrogen 7727-37-9 A
  - Methane 74-82-8 A, B1

- **Canada - WHMIS - Ingredient Disclosure List**
  - Nitrogen 7727-37-9 Not Listed
  - Methane 74-82-8 Not Listed

#### Environment

- **Canada - 2004 NPRI (National Pollutant Release Inventory)**
  - Nitrogen 7727-37-9 Not Listed
  - Methane 74-82-8 Not Listed

- **Canada - 2005 NPRI (National Pollutant Release Inventory)**
  - Nitrogen 7727-37-9 Not Listed
  - Methane 74-82-8 Not Listed

- **Canada - CEPA - Greenhouse Gases Subject to Mandatory Reporting**
  - Nitrogen 7727-37-9 Not Listed
  - Methane 74-82-8 21 GWP

- **Canada - CEPA - Priority Substances List**
  - Nitrogen 7727-37-9 Not Listed
  - Methane 74-82-8 Not Listed

- **Canada - DWQ (Drinking Water Quality) - IMACs**
  - Nitrogen 7727-37-9 Not Listed
  - Methane 74-82-8 Not Listed

#### Other

- **Canada - Accelerated Reduction/Elimination of Toxics (ARET)**
  - Nitrogen 7727-37-9 Not Listed
  - Methane 74-82-8 Not Listed

### Canada New Brunswick

#### Environment

- **Canada - New Brunswick - Ozone Depleting Substances - Schedule A**
  - Nitrogen 7727-37-9 Not Listed
  - Methane 74-82-8 Not Listed
### Canada - New Brunswick - Ozone Depleting Substances - Schedule B

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>Status</th>
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<tbody>
<tr>
<td>Nitrogen</td>
<td>7727-37-9</td>
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</tr>
<tr>
<td>Methane</td>
<td>74-82-8</td>
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### China - Environment

#### China - Ozone Depleting Substances - First Schedule

<table>
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<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>Status</th>
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<tbody>
<tr>
<td>Nitrogen</td>
<td>7727-37-9</td>
<td>Not Listed</td>
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<tr>
<td>Methane</td>
<td>74-82-8</td>
<td>Not Listed</td>
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#### China - Ozone Depleting Substances - Second Schedule

<table>
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<tr>
<th>Substance</th>
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<th>Status</th>
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<tbody>
<tr>
<td>Nitrogen</td>
<td>7727-37-9</td>
<td>Not Listed</td>
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<tr>
<td>Methane</td>
<td>74-82-8</td>
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</table>

#### China - Ozone Depleting Substances - Third Schedule

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<th>Substance</th>
<th>CAS Number</th>
<th>Status</th>
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<td>Nitrogen</td>
<td>7727-37-9</td>
<td>Not Listed</td>
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<tr>
<td>Methane</td>
<td>74-82-8</td>
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### China - Annex I & II - Controlled Chemicals Lists

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<th>Substance</th>
<th>CAS Number</th>
<th>Status</th>
</tr>
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<tbody>
<tr>
<td>Nitrogen</td>
<td>7727-37-9</td>
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<td>Methane</td>
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### China - Dangerous Goods List

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<td>(compressed or refrigerated liquid)</td>
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<td>Methane</td>
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<td>(compressed or refrigerated liquid)</td>
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### China - Export Control List - Part I Chemicals

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<tr>
<td>Methane</td>
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<td>Not Listed</td>
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</tbody>
</table>

### Europe - CLP (1272/2008) - Annex VI - Table 3.2 - Classification

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitrogen</td>
<td>7727-37-9</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Methane</td>
<td>74-82-8</td>
<td>F+; R12</td>
</tr>
</tbody>
</table>

### Europe - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
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<td>7727-37-9</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Methane</td>
<td>74-82-8</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

### Europe - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitrogen</td>
<td>7727-37-9</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Methane</td>
<td>74-82-8</td>
<td>F+ R:12 S:(2)-9-16-33</td>
</tr>
</tbody>
</table>

### Europe - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitrogen</td>
<td>7727-37-9</td>
<td>Not Listed</td>
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<tr>
<td>Methane</td>
<td>74-82-8</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

### Europe - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitrogen</td>
<td>7727-37-9</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Methane</td>
<td>74-82-8</td>
<td>S:(2)-9-16-33</td>
</tr>
</tbody>
</table>

---

Preparation Date: 13/November/2012
Revision Date: 11/December/2013

WHMIS, EU CLP, EU DSD/DPD, OSHA HCS 2012
**Germany**

**Environment**

*Germany - TA Luft - Types and Classes*

- Nitrogen: 7727-37-9, Not Listed
- Methane: 74-82-8, Not Listed

*Germany - Water Classification (VwVwS) - Annex 1*

- Nitrogen: 7727-37-9
  - ID Number 1351, not considered hazardous to water
- Methane: 74-82-8
  - ID Number 1343, not considered hazardous to water

*Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes*

- Nitrogen: 7727-37-9, Not Listed
- Methane: 74-82-8, Not Listed

*Germany - Water Classification (VwVwS) - Annex 3*

- Nitrogen: 7727-37-9, Not Listed
- Methane: 74-82-8, Not Listed

**Other**

*Germany - Specifically Regulated Chemicals in TRGS*

- Nitrogen: 7727-37-9, Not Listed
- Methane: 74-82-8, Not Listed

**Portugal**

**Other**

*Portugal - Prohibited Substances*

- Nitrogen: 7727-37-9, Not Listed
- Methane: 74-82-8, Not Listed

**United Kingdom**

**Environment**

*United Kingdom - Pollution Inventory - Schedule 1 - Thresholds for Releases to Air*

- Nitrogen: 7727-37-9, Not Listed
- Methane: 74-82-8, 10000 kg

*United Kingdom - Substances Contained in Dangerous Substances or Preparations*

- Nitrogen: 7727-37-9, Not Listed
- Methane: 74-82-8, Not Listed

**Other**

*United Kingdom - Workplace Exposure Limits (WELs) - Substances in Review*

- Nitrogen: 7727-37-9, Not Listed
- Methane: 74-82-8, Not Listed

*United Kingdom - List of Dangerous Substances in Water*

- Nitrogen: 7727-37-9, Not Listed
- Methane: 74-82-8, Not Listed
### United States

#### Labor

**U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals**
- Nitrogen: 7727-37-9 Not Listed
- Methane: 74-82-8 Not Listed

**U.S. - OSHA - Specifically Regulated Chemicals**
- Nitrogen: 7727-37-9 Not Listed
- Methane: 74-82-8 Not Listed

#### Environment

**U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants**
- Nitrogen: 7727-37-9 Not Listed
- Methane: 74-82-8 Not Listed

**U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities**
- Nitrogen: 7727-37-9 Not Listed
- Methane: 74-82-8 Not Listed

**U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities**
- Nitrogen: 7727-37-9 Not Listed
- Methane: 74-82-8 Not Listed

**U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs**
- Nitrogen: 7727-37-9 Not Listed
- Methane: 74-82-8 Not Listed

**U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs**
- Nitrogen: 7727-37-9 Not Listed
- Methane: 74-82-8 Not Listed

**U.S. - CERCLA/SARA - Section 313 - Emission Reporting**
- Nitrogen: 7727-37-9 Not Listed
- Methane: 74-82-8 Not Listed

**U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing**
- Nitrogen: 7727-37-9 Not Listed
- Methane: 74-82-8 Not Listed

### United States - California

#### Environment

**U.S. - California - Proposition 65 - Carcinogens List**
- Nitrogen: 7727-37-9 Not Listed
- Methane: 74-82-8 Not Listed

**U.S. - California - Proposition 65 - Developmental Toxicity**
- Nitrogen: 7727-37-9 Not Listed
- Methane: 74-82-8 Not Listed

**U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)**
- Nitrogen: 7727-37-9 Not Listed
- Methane: 74-82-8 Not Listed
U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)
- Nitrogen  7727-37-9  Not Listed
- Methane  74-82-8  Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Female
- Nitrogen  7727-37-9  Not Listed
- Methane  74-82-8  Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Male
- Nitrogen  7727-37-9  Not Listed
- Methane  74-82-8  Not Listed

United States - Pennsylvania

Labor

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
- Nitrogen  7727-37-9  Not Listed
- Methane  74-82-8  Not Listed

U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances
- Nitrogen  7727-37-9  Not Listed
- Methane  74-82-8  Not Listed

15.2 Chemical Safety Assessment
- No Chemical Safety Assessment has been carried out.

Section 16 - Other Information

Last Revision Date  11/December/2013
Preparation Date  13/November/2012

Disclaimer/Statement of Liability
- 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