

## Safety Data Sheet



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

#### 1.1 Product identifier

**Product Name** • **Propylene (0.0001-1.3%) in Air (Balance)**  
**Product Code** • M-3613/E-1

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

**Relevant identified use(s)** • Calibration standard

#### 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 Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010]  
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** • Not classified

#### 2.2 Label Elements

**CLP**

#### WARNING



**Hazard statements** • H280 - Contains gas under pressure; may explode if heated

#### Precautionary statements

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

## DSD/DPD

**Risk phrases** • No label element(s) required

## 2.3 Other Hazards

### CLP

- According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.

### DSD/DPD

- According to European Directive 1999/45/EC this preparation is not considered dangerous.

---

## United States (US)

According to OSHA 29 CFR 1910.1200 HCS

## 2.1 Classification of the substance or mixture

### OSHA HCS 2012

- Compressed Gas - H280  
Germ Cell Mutagenicity 2 - H341

## 2.2 Label elements

### OSHA HCS 2012

### WARNING



**Hazard statements** • Contains gas under pressure; may explode if heated - H280  
Suspected of causing genetic defects. - H341

### Precautionary statements

**Prevention** • Obtain special instructions before use. - P201  
Do not handle until all safety precautions have been read and understood. - P202  
Wear protective gloves/protective clothing/eye protection/face protection. - P280

**Response** • IF exposed or concerned: Get medical advice/attention. - P308+P313

**Storage/Disposal** • Store in a well-ventilated place. - P403  
Store locked up. - P405  
Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. - P501

## 2.3 Other hazards

### OSHA HCS 2012

- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

---

## Canada

According to WHMIS

## 2.1 Classification of the substance or mixture

### WHMIS

- Compressed Gas - A  
Other Toxic Effects - D2B

## 2.2 Label elements

### WHMIS



- Compressed Gas - A  
Other Toxic Effects - D2B

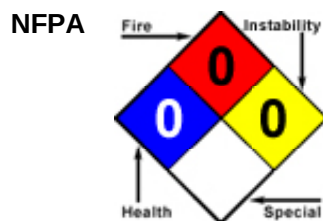
## 2.3 Other hazards

### WHMIS

- In Canada, the product mentioned above is considered hazardous under the

## Workplace Hazardous Materials Information System (WHMIS).

## 2.4 Other information



## 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

| Composition                   |                                     |                    |                                                                                                                                                                     |
|-------------------------------|-------------------------------------|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chemical Name                 | Identifiers                         | %                  | Classifications According to Regulation/Directive                                                                                                                   |
| Propylene                     | CAS:115-07-1<br>EC Number:204-062-1 | 0.0001% TO<br>1.3% | EU DSD/DPD: Annex VI, Table 3.2: F+; R12<br>EU CLP: Annex VI: Flam. Gas 1, H221; Press Gas. - Comp., H280<br>OSHA HCS 2012: Flam Gas 1; Press. Gas - Comp.; Muta. 2 |
| Air - compressed, atmospheric | CAS:132259-10-0                     | Balance            | EU DSD/DPD: None<br>EU CLP: Self Classified: Press. Gas - Comp., H280<br>OSHA HCS 2012: Press. Gas - Comp                                                           |

See Section 11 for Toxicological Information. 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

- 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 irritation develops and persists, get medical attention.

## Ingestion

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

## 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.

## 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** • None known.

### 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).  
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** • Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use appropriate Personal Protective Equipment (PPE) Do not walk through spilled material. Ventilate the area before entry.

**Emergency Procedures** • Stop leak if you can do it without risk. 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

- No special environmental precautions necessary.

### 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.  
Ventilate the area.  
Allow substance to evaporate.

### 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

- Use only with adequate ventilation. 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

| Exposure Limits/Guidelines          |        |                      |                |                                        |             |                      |
|-------------------------------------|--------|----------------------|----------------|----------------------------------------|-------------|----------------------|
|                                     | Result | ACGIH                | Canada Ontario | Ireland                                | Israel      | Portugal             |
| Propylene (115-07-1)                | TWAs   | 500 ppm TWA          | 500 ppm TWA    | 500 ppm TWA (gaseous)                  | 500 ppm TWA | 500 ppm TWA [VLE-MP] |
| Exposure Limits/Guidelines (Con't.) |        |                      |                |                                        |             |                      |
|                                     | Result | Spain                |                | Sweden                                 |             |                      |
| Propylene (115-07-1)                | TWAs   | 500 ppm TWA [VLA-ED] |                | 500 ppm LLV; 900 mg/m <sup>3</sup> LLV |             |                      |

#### Exposure Control Notations

##### Portugal

- Propylene (115-07-1): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen)

##### Ireland

- Propylene (115-07-1): **Simple Asphyxiants:** (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

OSHA = Occupational Safety and Health Administration

LLV = Limit Level Value is the exposure limit for 8-hour work day

NIOSH = National Institute of Occupational Safety and Health

MAK = Maximale Arbeitsplatz Konzentration is the maximum permissible concentration

STEL = Short Term Exposure Limits are based on 15-minute exposures

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

| Material Description                |                       |                        |                             |
|-------------------------------------|-----------------------|------------------------|-----------------------------|
| Physical Form                       | Gas                   | Appearance/Description | Colorless gas with no odor. |
| Color                               | Colorless             | Odor                   | Odorless                    |
| Odor Threshold                      | Data lacking          |                        |                             |
| General Properties                  |                       |                        |                             |
| Boiling Point                       | Data lacking          | Melting Point          | Data lacking                |
| Decomposition Temperature           | Data lacking          | pH                     | Not relevant                |
| Specific Gravity/Relative Density   | Data lacking          | Water Solubility       | 18.68 cm <sup>3</sup> /l    |
| Viscosity                           | Data lacking          | Explosive Properties   | Not explosive.              |
| Oxidizing Properties:               | Not an oxidizing gas. |                        |                             |
| Volatility                          |                       |                        |                             |
| Vapor Pressure                      | Data lacking          | Vapor Density          | 1 Air=1                     |
| Evaporation Rate                    | Data lacking          |                        |                             |
| Flammability                        |                       |                        |                             |
| Flash Point                         | Data lacking          | UEL                    | Data lacking                |
| LEL                                 | Data lacking          | Autoignition           | Data lacking                |
| Flammability (solid, gas)           | Not flammable.        |                        |                             |
| 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

- No data available

### 10.5 Incompatible materials

- No data available

### 10.6 Hazardous decomposition products

- No data available

## Section 11 - Toxicological Information

### 11.1 Information on toxicological effects

| Components                  |          |                                                                                                                                                                                                                                                                 |
|-----------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Propylene (0.0001% TO 1.3%) | 115-07-1 | <b>Mutagen:</b> Inhalation-Rat • 200 ppm 4 Week(s) 6 Hour(s);<br><b>Tumorigen / Carcinogen:</b> Inhalation-Rat TClO • 128750 mg/kg 103 Week(s)-Continuous;<br><i>Tumorigenic:Neoplastic by RTECS criteria; Sense Organs and Special Senses:Olfaction:Tumors</i> |

| GHS Properties                | Classification                                                                              |
|-------------------------------|---------------------------------------------------------------------------------------------|
| Acute toxicity                | EU/CLP • Classification criteria not met<br>OSHA HCS 2012 • Classification criteria not met |
| Aspiration Hazard             | EU/CLP • Classification criteria not met<br>OSHA HCS 2012 • Classification criteria not met |
| Carcinogenicity               | EU/CLP • Classification criteria not met<br>OSHA HCS 2012 • Classification criteria not met |
| Germ Cell Mutagenicity        | EU/CLP • Classification criteria not met<br>OSHA HCS 2012 • Germ Cell Mutagenicity 2        |
| Skin corrosion/Irritation     | EU/CLP • Classification criteria not met<br>OSHA HCS 2012 • Classification criteria not met |
| Skin sensitization            | EU/CLP • Classification criteria not met<br>OSHA HCS 2012 • Classification criteria not met |
| STOT-RE                       | EU/CLP • Classification criteria not met<br>OSHA HCS 2012 • Classification criteria not met |
| STOT-SE                       | EU/CLP • Classification criteria not met<br>OSHA HCS 2012 • Classification criteria not met |
| Toxicity for Reproduction     | EU/CLP • Classification criteria not met<br>OSHA HCS 2012 • Classification criteria not met |
| Respiratory sensitization     | EU/CLP • Classification criteria not met<br>OSHA HCS 2012 • Classification criteria not met |
| Serious eye damage/Irritation | EU/CLP • Classification criteria not met<br>OSHA HCS 2012 • Classification criteria not met |

#### Route(s) of entry/exposure

- Inhalation, Skin, Eye

#### 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)

- 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 considered a potential route of exposure due to the physical form of this product.

**Chronic (Delayed)**

- No data available

**Mutagenic Effects**

- Studies of propylene inhalation in animals has produced positive mutagenicity tests indicating propylene has the potential to cause mutagenic effects in humans.

**Key to abbreviations**

LC = Lethal Concentration

LD = Lethal Dose

TC = Toxic Concentration

**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**

|                 | <b>14.1 UN number</b> | <b>14.2 UN proper shipping name</b>     | <b>14.3 Transport hazard class(es)</b> | <b>14.4 Packing group</b> | <b>14.5 Environmental hazards</b> |
|-----------------|-----------------------|-----------------------------------------|----------------------------------------|---------------------------|-----------------------------------|
| <b>DOT</b>      | UN1956                | Compressed gas, n.o.s (Air, Propylene)  | 2.2                                    | NDA                       | NDA                               |
| <b>TDG</b>      | UN1956                | COMPRESSED GAS, N.O.S. (Air, Propylene) | 2.2                                    | NDA                       | NDA                               |
| <b>IMO/IMDG</b> | UN1956                | COMPRESSED GAS, N.O.S. (Air, Propylene) | 2.2                                    | NDA                       | NDA                               |

|           |        |                                        |     |     |     |
|-----------|--------|----------------------------------------|-----|-----|-----|
| IATA/ICAO | UN1956 | Compressed gas, n.o.s (Air, Propylene) | 2.2 | NDA | NDA |
|-----------|--------|----------------------------------------|-----|-----|-----|

**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** • Pressure(Sudden Release of)

| State Right To Know           |             |     |     |     |
|-------------------------------|-------------|-----|-----|-----|
| Component                     | CAS         | MA  | NJ  | PA  |
| Air - compressed, atmospheric | 132259-10-0 | No  | No  | No  |
| Propylene                     | 115-07-1    | Yes | Yes | Yes |

| Inventory                     |             |            |             |       |           |           |
|-------------------------------|-------------|------------|-------------|-------|-----------|-----------|
| Component                     | CAS         | Canada DSL | Canada NDSL | China | EU EINECS | EU ELNICS |
| Air - compressed, atmospheric | 132259-10-0 | No         | No          | Yes   | No        | No        |
| Propylene                     | 115-07-1    | Yes        | No          | Yes   | Yes       | No        |

| Inventory (Con't.)            |             |      |
|-------------------------------|-------------|------|
| Component                     | CAS         | TSCA |
| Air - compressed, atmospheric | 132259-10-0 | No   |
| Propylene                     | 115-07-1    | Yes  |

**Canada****Labor****Canada - WHMIS - Classifications of Substances**

- |                                 |             |       |
|---------------------------------|-------------|-------|
| • Air - compressed, atmospheric | 132259-10-0 | A     |
| • Propylene                     | 115-07-1    | A, B1 |

**Canada - WHMIS - Ingredient Disclosure List**

- |                                 |             |            |
|---------------------------------|-------------|------------|
| • Air - compressed, atmospheric | 132259-10-0 | Not Listed |
| • Propylene                     | 115-07-1    | Not Listed |

**Environment****Canada - 2004 NPRI (National Pollutant Release Inventory)**

- |                                 |             |                                                |
|---------------------------------|-------------|------------------------------------------------|
| • Air - compressed, atmospheric | 132259-10-0 | Not Listed                                     |
| • Propylene                     | 115-07-1    | Part 1, Group 1 Substance;<br>Part 5 Substance |

**Canada - 2005 NPRI (National Pollutant Release Inventory)**

|                                 |             |                                                |
|---------------------------------|-------------|------------------------------------------------|
| • Air - compressed, atmospheric | 132259-10-0 | Not Listed                                     |
| • Propylene                     | 115-07-1    | Part 1, Group 1 Substance;<br>Part 5 Substance |

**Canada - CEPA - Greenhouse Gases Subject to Mandatory Reporting**

|                                 |             |            |
|---------------------------------|-------------|------------|
| • Air - compressed, atmospheric | 132259-10-0 | Not Listed |
| • Propylene                     | 115-07-1    | Not Listed |

**Canada - CEPA - Priority Substances List**

|                                 |             |            |
|---------------------------------|-------------|------------|
| • Air - compressed, atmospheric | 132259-10-0 | Not Listed |
| • Propylene                     | 115-07-1    | Not Listed |

**Canada - DWQ (Drinking Water Quality) - IMACs**

|                                 |             |            |
|---------------------------------|-------------|------------|
| • Air - compressed, atmospheric | 132259-10-0 | Not Listed |
| • Propylene                     | 115-07-1    | Not Listed |

**Other****Canada - Accelerated Reduction/Elimination of Toxics (ARET)**

|                                 |             |            |
|---------------------------------|-------------|------------|
| • Air - compressed, atmospheric | 132259-10-0 | Not Listed |
| • Propylene                     | 115-07-1    | Not Listed |

**Canada New Brunswick****Environment****Canada - New Brunswick - Ozone Depleting Substances - Schedule A**

|                                 |             |            |
|---------------------------------|-------------|------------|
| • Air - compressed, atmospheric | 132259-10-0 | Not Listed |
| • Propylene                     | 115-07-1    | Not Listed |

**Canada - New Brunswick - Ozone Depleting Substances - Schedule B**

|                                 |             |            |
|---------------------------------|-------------|------------|
| • Air - compressed, atmospheric | 132259-10-0 | Not Listed |
| • Propylene                     | 115-07-1    | Not Listed |

**China****Environment****China - Ozone Depleting Substances - First Schedule**

|                                 |             |            |
|---------------------------------|-------------|------------|
| • Air - compressed, atmospheric | 132259-10-0 | Not Listed |
| • Propylene                     | 115-07-1    | Not Listed |

**China - Ozone Depleting Substances - Second Schedule**

|                                 |             |            |
|---------------------------------|-------------|------------|
| • Air - compressed, atmospheric | 132259-10-0 | Not Listed |
| • Propylene                     | 115-07-1    | Not Listed |

**China - Ozone Depleting Substances - Third Schedule**

|                                 |             |            |
|---------------------------------|-------------|------------|
| • Air - compressed, atmospheric | 132259-10-0 | Not Listed |
| • Propylene                     | 115-07-1    | Not Listed |

**Other****China - Annex I & II - Controlled Chemicals Lists**

|                                 |             |            |
|---------------------------------|-------------|------------|
| • Air - compressed, atmospheric | 132259-10-0 | Not Listed |
| • Propylene                     | 115-07-1    | Not Listed |

**China - Dangerous Goods List**

|                                                       |             |                                     |
|-------------------------------------------------------|-------------|-------------------------------------|
| • Air - compressed, atmospheric                       | 132259-10-0 | (compressed or refrigerated liquid) |
| • Propylene                                           | 115-07-1    |                                     |
| <b>China - Export Control List - Part I Chemicals</b> |             |                                     |
| • Air - compressed, atmospheric                       | 132259-10-0 | Not Listed                          |
| • Propylene                                           | 115-07-1    | Not Listed                          |

## Europe

### Other

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

|                                 |             |            |
|---------------------------------|-------------|------------|
| • Air - compressed, atmospheric | 132259-10-0 | Not Listed |
| • Propylene                     | 115-07-1    | F+; R12    |

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

|                                 |             |            |
|---------------------------------|-------------|------------|
| • Air - compressed, atmospheric | 132259-10-0 | Not Listed |
| • Propylene                     | 115-07-1    | Not Listed |

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

|                                 |             |                       |
|---------------------------------|-------------|-----------------------|
| • Air - compressed, atmospheric | 132259-10-0 | Not Listed            |
| • Propylene                     | 115-07-1    | F+ R:12 S:(2)-9-16-33 |

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

|                                 |             |            |
|---------------------------------|-------------|------------|
| • Air - compressed, atmospheric | 132259-10-0 | Not Listed |
| • Propylene                     | 115-07-1    | Not Listed |

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

|                                 |             |               |
|---------------------------------|-------------|---------------|
| • Air - compressed, atmospheric | 132259-10-0 | Not Listed    |
| • Propylene                     | 115-07-1    | S:(2)-9-16-33 |

## Germany

### Environment

#### Germany - TA Luft - Types and Classes

|                                 |             |            |
|---------------------------------|-------------|------------|
| • Air - compressed, atmospheric | 132259-10-0 | Not Listed |
| • Propylene                     | 115-07-1    | Not Listed |

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

|                                 |             |                                                  |
|---------------------------------|-------------|--------------------------------------------------|
| • Air - compressed, atmospheric | 132259-10-0 | Not Listed                                       |
| • Propylene                     | 115-07-1    | ID Number 816, not considered hazardous to water |

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

|                                 |             |            |
|---------------------------------|-------------|------------|
| • Air - compressed, atmospheric | 132259-10-0 | Not Listed |
| • Propylene                     | 115-07-1    | Not Listed |

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

|                                 |             |            |
|---------------------------------|-------------|------------|
| • Air - compressed, atmospheric | 132259-10-0 | Not Listed |
| • Propylene                     | 115-07-1    | Not Listed |

### Other

#### Germany - Specifically Regulated Chemicals in TRGS

|                                 |             |            |
|---------------------------------|-------------|------------|
| • Air - compressed, atmospheric | 132259-10-0 | Not Listed |
| • Propylene                     | 115-07-1    | Not Listed |

## United Kingdom

### Environment

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

|                                 |             |            |
|---------------------------------|-------------|------------|
| • Air - compressed, atmospheric | 132259-10-0 | Not Listed |
| • Propylene                     | 115-07-1    | Not Listed |

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

|                                 |             |            |
|---------------------------------|-------------|------------|
| • Air - compressed, atmospheric | 132259-10-0 | Not Listed |
| • Propylene                     | 115-07-1    | Not Listed |

### Other

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

|                                 |             |            |
|---------------------------------|-------------|------------|
| • Air - compressed, atmospheric | 132259-10-0 | Not Listed |
| • Propylene                     | 115-07-1    | Not Listed |

#### United Kingdom - List of Dangerous Substances in Water

|                                 |             |            |
|---------------------------------|-------------|------------|
| • Air - compressed, atmospheric | 132259-10-0 | Not Listed |
| • Propylene                     | 115-07-1    | Not Listed |

## United States

### Labor

#### U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals

|                                 |             |            |
|---------------------------------|-------------|------------|
| • Air - compressed, atmospheric | 132259-10-0 | Not Listed |
| • Propylene                     | 115-07-1    | Not Listed |

#### U.S. - OSHA - Specifically Regulated Chemicals

|                                 |             |            |
|---------------------------------|-------------|------------|
| • Air - compressed, atmospheric | 132259-10-0 | Not Listed |
| • Propylene                     | 115-07-1    | Not Listed |

### Environment

#### U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants

|                                 |             |            |
|---------------------------------|-------------|------------|
| • Air - compressed, atmospheric | 132259-10-0 | Not Listed |
| • Propylene                     | 115-07-1    | Not Listed |

#### U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

|                                 |             |            |
|---------------------------------|-------------|------------|
| • Air - compressed, atmospheric | 132259-10-0 | Not Listed |
| • Propylene                     | 115-07-1    | Not Listed |

#### U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities

|                                 |             |            |
|---------------------------------|-------------|------------|
| • Air - compressed, atmospheric | 132259-10-0 | Not Listed |
| • Propylene                     | 115-07-1    | Not Listed |

#### U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

|                                 |             |            |
|---------------------------------|-------------|------------|
| • Air - compressed, atmospheric | 132259-10-0 | Not Listed |
| • Propylene                     | 115-07-1    | Not Listed |

#### U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

|                                 |             |            |
|---------------------------------|-------------|------------|
| • Air - compressed, atmospheric | 132259-10-0 | Not Listed |
| • Propylene                     | 115-07-1    | Not Listed |

#### U.S. - CERCLA/SARA - Section 313 - Emission Reporting

|                                 |             |            |
|---------------------------------|-------------|------------|
| • Air - compressed, atmospheric | 132259-10-0 | Not Listed |
|---------------------------------|-------------|------------|

|                                                                |             |                                |
|----------------------------------------------------------------|-------------|--------------------------------|
| • Propylene                                                    | 115-07-1    | 1.0 % de minimis concentration |
| <b>U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing</b> |             |                                |
| • Air - compressed, atmospheric                                | 132259-10-0 | Not Listed                     |
| • Propylene                                                    | 115-07-1    | Not Listed                     |

## United States - California

### Environment

|                                                                                  |             |            |
|----------------------------------------------------------------------------------|-------------|------------|
| <b>U.S. - California - Proposition 65 - Carcinogens List</b>                     |             |            |
| • Air - compressed, atmospheric                                                  | 132259-10-0 | Not Listed |
| • Propylene                                                                      | 115-07-1    | Not Listed |
| <b>U.S. - California - Proposition 65 - Developmental Toxicity</b>               |             |            |
| • Air - compressed, atmospheric                                                  | 132259-10-0 | Not Listed |
| • Propylene                                                                      | 115-07-1    | Not Listed |
| <b>U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)</b> |             |            |
| • Air - compressed, atmospheric                                                  | 132259-10-0 | Not Listed |
| • Propylene                                                                      | 115-07-1    | Not Listed |
| <b>U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)</b>    |             |            |
| • Air - compressed, atmospheric                                                  | 132259-10-0 | Not Listed |
| • Propylene                                                                      | 115-07-1    | Not Listed |
| <b>U.S. - California - Proposition 65 - Reproductive Toxicity - Female</b>       |             |            |
| • Air - compressed, atmospheric                                                  | 132259-10-0 | Not Listed |
| • Propylene                                                                      | 115-07-1    | Not Listed |
| <b>U.S. - California - Proposition 65 - Reproductive Toxicity - Male</b>         |             |            |
| • Air - compressed, atmospheric                                                  | 132259-10-0 | Not Listed |
| • Propylene                                                                      | 115-07-1    | Not Listed |

## United States - Pennsylvania

### Labor

|                                                                                 |             |            |
|---------------------------------------------------------------------------------|-------------|------------|
| <b>U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List</b>    |             |            |
| • Air - compressed, atmospheric                                                 | 132259-10-0 | Not Listed |
| • Propylene                                                                     | 115-07-1    |            |
| <b>U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances</b> |             |            |
| • Air - compressed, atmospheric                                                 | 132259-10-0 | Not Listed |
| • Propylene                                                                     | 115-07-1    | Not Listed |

## 15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

## Section 16 - Other Information

### Relevant Phrases (code & full text)

- H221 - Flammable gas
- R12 - Extremely flammable.

**Last Revision Date**

- 05/September/2014

**Preparation Date**

- 05/September/2014

**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

---