

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixture  
Product name : Hydrogen (0.0001% - 99.9999%) in Propylene  
Product code : SG-2002-01584

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

Use of the substance/mixture : Test gas/Calibration gas.

#### 1.3. Details of the supplier of the safety data sheet

Air Liquide America Specialty Gases  
6141 Easton Rd  
Plumsteadville, PA 18949 - USA  
T 1.800.217.2688  
[www.airliquide.com](http://www.airliquide.com)

#### 1.4. Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

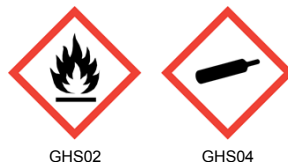
##### Classification (GHS-US)

Flam. Gas 1 H220  
Compressed gas H280  
Full text of H-phrases: see section 16

#### 2.2. Label elements

##### GHS-US labeling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H220 - Extremely flammable gas  
H280 - Contains gas under pressure; may explode if heated  
CGA-HG04 - May form explosive mixtures with air  
OSHA-H01 - May displace oxygen and cause rapid suffocation

Precautionary statements (GHS-US) : P202 - Do not handle until all safety precautions have been read and understood  
P271 - Use only outdoors or in a well-ventilated area  
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing  
P313 - Get medical advice/attention  
CGA-PG05 - Use a back flow preventive device in the piping  
CGA-PG21 - Open valve slowly  
CGA-PG06 - Close valve after each use and when empty  
CGA-PG10 - Use only with equipment rated for cylinder pressure  
P377 - Leaking gas fire: Do not extinguish, unless leak can be stopped safely  
CGA-PG14 - Approach suspected leak area with caution  
P381 - Eliminate all ignition sources if safe to do so  
CGA-PG02 - Protect from sunlight when ambient temperature exceeds 52°C (125°F)  
P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking  
P403 - Store in a well-ventilated place

#### 2.3. Other hazards

No additional information available

#### 2.4. Unknown acute toxicity (GHS-US)

Not applicable

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### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

| Name      | Product identifier | %                | Classification (GHS-US)                   |
|-----------|--------------------|------------------|-------------------------------------------|
| Hydrogen  | (CAS No) 1333-74-0 | 0.0001 - 99.9999 | Flam. Gas 1, H220<br>Compressed gas, H280 |
| Propylene | (CAS No) 115-07-1  | 0.0001 - 99.9999 | Flam. Gas 1, H220                         |

Full text of H-phrases: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.
- First-aid measures after skin contact : Adverse effects not expected from this product.
- First-aid measures after eye contact : Adverse effects not expected from this product.
- First-aid measures after ingestion : Ingestion is not considered a potential route of exposure.

#### 4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries after inhalation : May displace oxygen and cause rapid suffocation.
- Symptoms/injuries after skin contact : Adverse effects not expected from this product.
- Symptoms/injuries after eye contact : Adverse effects not expected from this product.
- Symptoms/injuries after ingestion : Ingestion is not considered a potential route of exposure.
- Symptoms/injuries upon intravenous administration : Not known.
- Chronic symptoms : Adverse effects not expected from this product.

#### 4.3. Indication of any immediate medical attention and special treatment needed

If you feel unwell, seek medical advice. If breathing is difficult, give oxygen.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.
- Unsuitable extinguishing media : Do not use water jet to extinguish.

#### 5.2. Special hazards arising from the substance or mixture

- Fire hazard : Extremely flammable gas.
- Explosion hazard : May form flammable/explosive vapor-air mixture. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.
- Reactivity : None known.

#### 5.3. Advice for firefighters

- Firefighting instructions : In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire.
- Protection during firefighting : Standard protective clothing and equipment (e.g., Self Contained Breathing Apparatus) for fire fighters. Do not enter fire area without proper protective equipment, including respiratory protection.

### SECTION 6: Accidental release measures

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

- General measures : Ensure adequate ventilation.

##### 6.1.1. For non-emergency personnel

- Protective equipment : Wear protective equipment consistent with the site emergency plan.
- Emergency procedures : Escape the danger area by the closest safe route. Close doors and windows of adjacent premises. Keep containers closed. Mark the danger area. Seal off low-lying areas. Keep upwind.

##### 6.1.2. For emergency responders

- Protective equipment : Standard protective clothing and equipment (e.g., Self Contained Breathing Apparatus) for fire fighters. Equip cleanup crew with proper protection.

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- Emergency procedures : Evacuate and limit access. Ventilate area. Remove ignition sources. Monitor concentration of released product. Consider the risk of potentially explosive atmospheres. Wear self-contained breathing apparatus when entering atmospheres of unknown contaminant concentration until proven to be safe.

### 6.2. Environmental precautions

Try to stop release if safe to do so.

### 6.3. Methods and material for containment and cleaning up

- For containment : Try to stop release if safe to do so.  
Methods for cleaning up : Dispose of this material and its container in accordance with local regulations.

### 6.4. Reference to other sections

See also Sections 8 and 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Additional hazards when processed : Pressurized container: Do not pierce or burn, even after use. Handle empty containers with care because residual vapors are flammable. Use equipment rated for cylinder pressure. In use, may form flammable vapor-air mixture. Close valve after each use and when empty.  
Precautions for safe handling : Do not handle until all safety precautions have been read and understood. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Keep away from heat/sparks/open flames/hot surfaces. – No smoking.  
Hygiene measures : Do not eat, drink or smoke when using this product.

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

- Technical measures : Comply with applicable regulations. Proper grounding procedures to avoid static electricity should be followed.  
Storage conditions : Do not expose to temperatures exceeding 52°C (125°F). Keep container closed when not in use. Protect cylinder from physical damage. Store in well ventilated area.  
Incompatible products : None known.  
Incompatible materials : Oxidizing materials. Air.

### 7.3. Specific end use(s)

Test gas/Calibration gas.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| Hydrogen (0.0001% - 99.9999%) in Propylene |                 |         |
|--------------------------------------------|-----------------|---------|
| ACGIH                                      | Not applicable  |         |
| OSHA                                       | Not applicable  |         |
| Hydrogen (1333-74-0)                       |                 |         |
| ACGIH                                      | Not applicable  |         |
| OSHA                                       | Not applicable  |         |
| Propylene (115-07-1)                       |                 |         |
| ACGIH                                      | ACGIH TWA (ppm) | 500 ppm |
| OSHA                                       | Not applicable  |         |

### 8.2. Exposure controls

- Appropriate engineering controls : Ensure exposure is below occupational exposure limits. Provide adequate general and local exhaust ventilation. Systems under pressure should be regularly checked for leakages. Oxygen detectors should be used when asphyxiating gases may be released. Consider work permit system e.g. for maintenance activities.  
Hand protection : Wear working gloves when handling gas containers. 29CFR 1910.138: Hand Protection.  
Eye protection : Wear safety glasses with side shields. 29 CFR 1910.133: Eye and Face Protection.  
Skin and body protection : Wear suitable protective clothing, e.g. - lab coats, coveralls or flame resistant clothing.  
Respiratory protection : None necessary during normal and routine operations. See Sections 5 & 6.  
Thermal hazard protection : None necessary during normal and routine operations.  
Environmental exposure controls : Refer to local regulations for restriction of emissions to the atmosphere. See section 13 for specific methods for waste gas treatment.

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Other information : Wear safety shoes while handling containers. 29 CFR 1910.136: Foot Protection.

### SECTION 9: Physical and chemical properties

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

|                                             |                                                                                            |
|---------------------------------------------|--------------------------------------------------------------------------------------------|
| Physical state                              | : Gas                                                                                      |
| Appearance                                  | : Clear, colorless gas.                                                                    |
| Molecular mass                              | : Not applicable for gas-mixtures.                                                         |
| Color                                       | : Colorless                                                                                |
| Odor                                        | : Odorless                                                                                 |
| Odor threshold                              | : No data available                                                                        |
| pH                                          | : Not applicable for gas-mixtures.                                                         |
| Relative evaporation rate (butyl acetate=1) | : No data available                                                                        |
| Relative evaporation rate (ether=1)         | : Not applicable for gas-mixtures.                                                         |
| Melting point                               | : No data available                                                                        |
| Freezing point                              | : No data available                                                                        |
| Boiling point                               | : No data available                                                                        |
| Flash point                                 | : No data available                                                                        |
| Auto-ignition temperature                   | : No data available                                                                        |
| Decomposition temperature                   | : No data available                                                                        |
| Flammability (solid, gas)                   | : See Sect. 2.1 & 2.2                                                                      |
| Vapor pressure                              | : Not applicable.                                                                          |
| Relative vapor density at 20 °C             | : No data available                                                                        |
| Relative density                            | : No data available                                                                        |
| Relative gas density                        | : Heavier than or similar to air                                                           |
| Solubility                                  | : Water: Solubility in water of component(s) of the mixture :<br>• : 1.6 mg/l • : 384 mg/l |
| Log Pow                                     | : Not applicable for gas-mixtures.                                                         |
| Log Kow                                     | : Not applicable for gas-mixtures.                                                         |
| Viscosity, kinematic                        | : Not applicable.                                                                          |
| Viscosity, dynamic                          | : Not applicable.                                                                          |
| Explosive properties                        | : Without adequate ventilation formation of explosive mixtures may be possible.            |
| Oxidizing properties                        | : None.                                                                                    |
| Explosive limits                            | : No data available                                                                        |

#### 9.2. Other information

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

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

None known.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

Can form explosive mixture with air.

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

#### 10.5. Incompatible materials

Air. Oxidizing materials.

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use hazardous decomposition products should not be produced.

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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

| Hydrogen (1333-74-0)       |                 |
|----------------------------|-----------------|
| LC50 inhalation rat (ppm)  | 820000 ppm/4h   |
| Propylene (115-07-1)       |                 |
| LC50 inhalation rat (mg/l) | 658 mg/l/4h     |
| LC50 inhalation rat (ppm)  | 49957.23 ppm/4h |

Skin corrosion/irritation : Not classified  
pH: Not applicable for gas-mixtures.

Serious eye damage/irritation : Not classified  
pH: Not applicable for gas-mixtures.

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

| Propylene (115-07-1) |                      |
|----------------------|----------------------|
| IARC group           | 3 - Not classifiable |

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified  
Symptoms/injuries after inhalation : May displace oxygen and cause rapid suffocation.  
Symptoms/injuries after skin contact : Adverse effects not expected from this product.  
Symptoms/injuries after eye contact : Adverse effects not expected from this product.  
Symptoms/injuries after ingestion : Ingestion is not considered a potential route of exposure.  
Symptoms/injuries upon intravenous administration : Not known.  
Chronic symptoms : Adverse effects not expected from this product.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general : Classification criteria are not met.

#### 12.2. Persistence and degradability

| Hydrogen (0.0001% - 99.9999%) in Propylene |                                                      |
|--------------------------------------------|------------------------------------------------------|
| Persistence and degradability              | No data available.                                   |
| Hydrogen (1333-74-0)                       |                                                      |
| Persistence and degradability              | No ecological damage caused by this product.         |
| Propylene (115-07-1)                       |                                                      |
| Persistence and degradability              | The substance is biodegradable. Unlikely to persist. |

#### 12.3. Bioaccumulative potential

| Hydrogen (0.0001% - 99.9999%) in Propylene |                                              |
|--------------------------------------------|----------------------------------------------|
| Log Pow                                    | Not applicable for gas-mixtures.             |
| Log Kow                                    | Not applicable for gas-mixtures.             |
| Bioaccumulative potential                  | No data available.                           |
| Hydrogen (1333-74-0)                       |                                              |
| BCF fish 1                                 | (no bioaccumulation expected)                |
| Log Pow                                    | Not applicable for inorganic gases.          |
| Bioaccumulative potential                  | No ecological damage caused by this product. |

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| Propylene (115-07-1)      |                                                                                         |
|---------------------------|-----------------------------------------------------------------------------------------|
| Log Pow                   | 1.77                                                                                    |
| Bioaccumulative potential | Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9. |

### 12.4. Mobility in soil

| Hydrogen (0.0001% - 99.9999%) in Propylene |                                                                                             |
|--------------------------------------------|---------------------------------------------------------------------------------------------|
| Mobility in soil                           | No data available.                                                                          |
| Hydrogen (1333-74-0)                       |                                                                                             |
| Ecology - soil                             | No ecological damage caused by this product.                                                |
| Propylene (115-07-1)                       |                                                                                             |
| Ecology - soil                             | Because of its high volatility, the product is unlikely to cause ground or water pollution. |

### 12.5. Other adverse effects

|                              |                                                      |
|------------------------------|------------------------------------------------------|
| Effect on ozone layer        | : None.                                              |
| Effect on the global warming | : No known ecological damage caused by this product. |

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

|                                |                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Waste treatment methods        | : Contact supplier if guidance is required. Do not discharge into areas where there is a risk of forming an explosive mixture with air. Waste gas should be flared through a suitable burner with flash back arrestor. Do not discharge into any place where its accumulation could be dangerous. Ensure that the emission levels from local regulations or operating permits are not exceeded. |
| Waste disposal recommendations | : Refer to the CGA Pamphlet P-63 "Disposal of Gases" available at <a href="http://www.cganet.com">www.cganet.com</a> for more guidance on suitable disposal methods.                                                                                                                                                                                                                            |

## SECTION 14: Transport information

|                                |                                            |
|--------------------------------|--------------------------------------------|
| In accordance with DOT         |                                            |
| Transport document description | : UN1954 Compressed gas, flammable, n.o.s. |
| UN-No.(DOT)                    | : UN1954                                   |
| Proper Shipping Name (DOT)     | : Compressed gas, flammable, n.o.s.        |
| Hazard labels (DOT)            | : 2.1 - Flammable gas                      |



|                                                                  |                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DOT Symbols                                                      | : G - Identifies PSN requiring a technical name                                                                                                                                                                                                                                                                                                       |
| DOT Packaging Exceptions (49 CFR 173.xxx)                        | : 306                                                                                                                                                                                                                                                                                                                                                 |
| DOT Packaging Non Bulk (49 CFR 173.xxx)                          | : 302;305                                                                                                                                                                                                                                                                                                                                             |
| DOT Packaging Bulk (49 CFR 173.xxx)                              | : 314;315                                                                                                                                                                                                                                                                                                                                             |
| DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) | : Forbidden                                                                                                                                                                                                                                                                                                                                           |
| DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)     | : 150 kg                                                                                                                                                                                                                                                                                                                                              |
| DOT Vessel Stowage Location                                      | : D - The material must be stowed "on deck only" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers or one passenger per each 3 m of overall vessel length, but the material is prohibited on passenger vessels in which the limiting number of passengers is exceeded. |
| DOT Vessel Stowage Other                                         | : 40 - Stow "clear of living quarters"                                                                                                                                                                                                                                                                                                                |

### Additional information

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Other information             | : No supplementary information available.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Special transport precautions | : Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers:<br>- Ensure there is adequate ventilation. - Ensure that containers are firmly secured. - Ensure cylinder valve is closed and not leaking. - Ensure valve outlet cap nut or plug (where provided) is correctly fitted. - Ensure valve protection device (where provided) is correctly fitted. |

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### ADR

No additional information available

### Transport by sea

UN-No. (IMDG) : 1954  
Proper Shipping Name (IMDG) : COMPRESSED GAS, FLAMMABLE, N.O.S.  
Class (IMDG) : 2.1 - Flammable gases

### Air transport

UN-No.(IATA) : 1954  
Proper Shipping Name (IATA) : COMPRESSED GAS, FLAMMABLE, N.O.S.  
Class (IATA) : 2

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

#### Hydrogen (1333-74-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### Propylene (115-07-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on United States SARA Section 313

SARA Section 313 - Emission Reporting 1.0 %

### 15.2. International regulations

#### CANADA

#### Hydrogen (1333-74-0)

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification Class A - Compressed Gas  
Class B Division 1 - Flammable Gas

#### Propylene (115-07-1)

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification Class A - Compressed Gas  
Class B Division 1 - Flammable Gas

### EU-Regulations

#### Hydrogen (1333-74-0)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### Propylene (115-07-1)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

### 15.2.2. National regulations

#### Hydrogen (1333-74-0)

Listed on the AICS (Australian Inventory of Chemical Substances)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on the Korean ECL (Existing Chemicals List)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

#### Propylene (115-07-1)

Listed on the AICS (Australian Inventory of Chemical Substances)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on the Korean ECL (Existing Chemicals List)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

### 15.3. US State regulations

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|                                                                                                                                                                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Hydrogen (1333-74-0)</b>                                                                                                                                                                                                        |
| U.S. - Massachusetts - Right To Know List<br>U.S. - New Jersey - Right to Know Hazardous Substance List<br>U.S. - Pennsylvania - RTK (Right to Know) List                                                                          |
| <b>Propylene (115-07-1)</b>                                                                                                                                                                                                        |
| U.S. - Massachusetts - Right To Know List<br>U.S. - New Jersey - Right to Know Hazardous Substance List<br>U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List<br>U.S. - Pennsylvania - RTK (Right to Know) List |

### SECTION 16: Other information

|                       |                                                                                                                                                                                           |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Indication of changes | : Revised safety data sheet in accordance with OSHA final rule on GHS implementation promulgated March 26, 2012.                                                                          |
| Other information     | : This Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR, 1910.1200. Other government regulations must be reviewed for applicability to this product. |

Full text of H-phrases:

|                |                                                    |
|----------------|----------------------------------------------------|
| Compressed gas | Gases under pressure Compressed gas                |
| Flam. Gas 1    | Flammable gases Category 1                         |
| H220           | Extremely flammable gas                            |
| H280           | Contains gas under pressure; may explode if heated |

SDS US (GHS HazCom 2012)

*This Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR, 1910.1200. Other government regulations must be reviewed for applicability to this product. To the best of Air Liquide America Corporation'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 product 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.*