

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : Methyl Mercaptan (0.0001% - 3.374%) in Nitrogen

#### 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

Calgaz, division of Air Liquide  
821 Chesapeake Drive  
Cambridge, 21613 - USA  
T 1-410-228-6400 - F 1-410-228-4251  
[info@Calgaz.com](mailto:info@Calgaz.com) - [www.Calgaz.com](http://www.Calgaz.com)

#### 1.4. Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300  
Internationally: 1-703-527-3887

### SECTION 2: Hazards identification

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

##### Classification (GHS-US)

Compressed gas H280  
Full text of H-phrases: see section 16

#### 2.2. Label elements

##### GHS-US labeling

Hazard pictograms (GHS-US) :



GHS04

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H280 - Contains gas under pressure; may explode if heated  
OSHA-H01 - May displace oxygen and cause rapid suffocation  
CGA-HG16 - Extended exposure to gas reduces the ability to smell sulfides.

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  
P280 - Wear eye protection, face protection, protective gloves, protective clothing  
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing  
P308+P313 - If exposed or concerned: Get medical advice/attention  
P313 - Get medical advice/attention  
P403 - Store in a well-ventilated place  
P501 - Dispose of contents/container in accordance with local/regional/national/international regulations  
CGA-PG02 - Protect from sunlight when ambient temperature exceeds 52°C (125°F)  
CGA-PG05 - Use a back flow preventive device in the piping  
CGA-PG06 - Close valve after each use and when empty  
CGA-PG10 - Use only with equipment rated for cylinder pressure  
CGA-PG14 - Approach suspected leak area with caution  
CGA-PG21 - Open valve slowly  
CGA-PG29 - Do not depend on odor to detect presence of gas

#### 2.3. Other hazards

No additional information available

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

Not applicable

# Methyl Mercaptan (0.0001% - 3.374%) in Nitrogen

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

| Name         | Product identifier | %                | Classification (GHS-US)                                                                                                             |
|--------------|--------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Nitrogen     | (CAS No) 7727-37-9 | 96.626 - 99.9999 | Compressed gas, H280                                                                                                                |
| Methanethiol | (CAS No) 74-93-1   | 0.0001 - 3.374   | Flam. Gas 1, H220<br>Liquefied gas, H280<br>Acute Tox. 3 (Inhalation:gas), H331<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 |

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.

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

- Fire hazard : The product is not flammable.
- Explosion hazard : Product is not explosive. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.
- Reactivity : None known.

#### 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.
- Specific methods : Exposure to fire may cause containers to rupture/explode. Continue water spray from protected position until container stays cool. Move containers away from the fire area if this can be done without risk.

### 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.

# Methyl Mercaptan (0.0001% - 3.374%) in Nitrogen

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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.

Emergency procedures : Evacuate and limit access. Ventilate area.

### 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. Use equipment rated for cylinder pressure. 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 outdoors or in a well-ventilated area.

Safe handling of the gas receptacle : Protect cylinders from physical damage; do not drag, roll, slide or drop. Do not remove or deface labels provided by the supplier for the identification of the cylinder contents.

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.

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 : None known.

Storage area : Store away from heat. Store in a well-ventilated place.

### 7.3. Specific end use(s)

See Section 1.2.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| Methyl Mercaptan (0.0001% - 3.374%) in Nitrogen |                            |          |
|-------------------------------------------------|----------------------------|----------|
| ACGIH                                           | Not applicable             |          |
| OSHA                                            | Not applicable             |          |
| Methanethiol (74-93-1)                          |                            |          |
| ACGIH                                           | ACGIH TWA (ppm)            | 0.5 ppm  |
| OSHA                                            | OSHA PEL (Ceiling) (mg/m³) | 20 mg/m³ |
| OSHA                                            | OSHA PEL (Ceiling) (ppm)   | 10 ppm   |
| Nitrogen (7727-37-9)                            |                            |          |
| ACGIH                                           | Not applicable             |          |
| 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. 29 CFR 1910.138: Hand Protection.

# Methyl Mercaptan (0.0001% - 3.374%) in Nitrogen

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

|                                 |                                                                                                                                           |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| 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. |
| 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                                        | : Rotten eggs.;Sulfide-like;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                        | : Lighter or similar to air.                                                                |
| Solubility                                  | : Water: Solubility in water of component(s) of the mixture :<br>• : 23300 mg/l • : 20 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                        | : Not applicable - not flammable.                                                           |
| Oxidizing properties                        | : None.                                                                                     |
| Explosive limits                            | : Not applicable - not flammable                                                            |

### 9.2. Other information

|                        |         |
|------------------------|---------|
| Additional information | : None. |
|------------------------|---------|

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

None known.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

None known.

### 10.4. Conditions to avoid

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

### 10.5. Incompatible materials

None known.

# Methyl Mercaptan (0.0001% - 3.374%) in Nitrogen

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 10.6. Hazardous decomposition products

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

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

| Methanethiol (74-93-1)    |                           |
|---------------------------|---------------------------|
| LD50 oral rat             | 109.6 mg/kg               |
| LD50 dermal rat           | > 84.8 mg/kg              |
| LC50 inhalation rat (ppm) | 675 ppm/4h                |
| ATE US (oral)             | 109.600 mg/kg body weight |
| ATE US (gases)            | 675.000 ppmV/4h           |

| Nitrogen (7727-37-9)      |               |
|---------------------------|---------------|
| LC50 inhalation rat (ppm) | 820000 ppm/4h |

|                                                    |                                                              |
|----------------------------------------------------|--------------------------------------------------------------|
| Skin corrosion/irritation                          | : Not classified<br>pH: Not applicable for gas-mixtures.     |
| Serious eye damage/irritation                      | : Not classified<br>pH: Not applicable for gas-mixtures.     |
| Respiratory or skin sensitization                  | : Not classified                                             |
| Germ cell mutagenicity                             | : Not classified                                             |
| Carcinogenicity                                    | : Not classified                                             |
| 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

| Methyl Mercaptan (0.0001% - 3.374%) in Nitrogen |                                                      |
|-------------------------------------------------|------------------------------------------------------|
| Persistence and degradability                   | No data available.                                   |
| Methanethiol (74-93-1)                          |                                                      |
| Persistence and degradability                   | The substance is biodegradable. Unlikely to persist. |
| Nitrogen (7727-37-9)                            |                                                      |
| Persistence and degradability                   | No ecological damage caused by this product.         |

### 12.3. Bioaccumulative potential

| Methyl Mercaptan (0.0001% - 3.374%) in Nitrogen |                                  |
|-------------------------------------------------|----------------------------------|
| Log Pow                                         | Not applicable for gas-mixtures. |
| Log Kow                                         | Not applicable for gas-mixtures. |
| Bioaccumulative potential                       | No data available.               |

# Methyl Mercaptan (0.0001% - 3.374%) in Nitrogen

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| Methanethiol (74-93-1)    |                                              |
|---------------------------|----------------------------------------------|
| Log Pow                   | Not known.                                   |
| Bioaccumulative potential | No data available.                           |
| Nitrogen (7727-37-9)      |                                              |
| Log Pow                   | Not applicable for inorganic gases.          |
| Bioaccumulative potential | No ecological damage caused by this product. |

### 12.4. Mobility in soil

| Methyl Mercaptan (0.0001% - 3.374%) in Nitrogen |                                                                                             |
|-------------------------------------------------|---------------------------------------------------------------------------------------------|
| Mobility in soil                                | No data available.                                                                          |
| Methanethiol (74-93-1)                          |                                                                                             |
| Ecology - soil                                  | Because of its high volatility, the product is unlikely to cause ground or water pollution. |
| Nitrogen (7727-37-9)                            |                                                                                             |
| Ecology - soil                                  | No ecological damage caused by this product.                                                |

### 12.5. Other adverse effects

|                              |                                                      |
|------------------------------|------------------------------------------------------|
| Effect on ozone layer        | : No known effects from this product.                |
| 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 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                    | : UN1956 Compressed gas, n.o.s. (Nitrogen, Methyl Mercaptan), 2.2 |
| UN-No.(DOT)                                       | : UN1956                                                          |
| Proper Shipping Name (DOT)                        | : Compressed gas, n.o.s.                                          |
| Department of Transportation (DOT) Hazard Classes | : 2.2 - Class 2.2 - Non-flammable compressed gas 49 CFR 173.115   |
| Hazard labels (DOT)                               | : 2.2 - Non-flammable gas                                         |



|                                                                  |                                                                                                         |
|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| DOT Symbols                                                      | : G - Identifies PSN requiring a technical name                                                         |
| DOT Packaging Exceptions (49 CFR 173.xxx)                        | : 306;307                                                                                               |
| DOT Packaging Non Bulk (49 CFR 173.xxx)                          | : 302;305                                                                                               |
| DOT Packaging Bulk (49 CFR 173.xxx)                              | : 314;315                                                                                               |
| DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) | : 75 kg                                                                                                 |
| DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)     | : 150 kg                                                                                                |
| DOT Vessel Stowage Location                                      | : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel. |

### Additional information

|                   |                                           |
|-------------------|-------------------------------------------|
| Other information | : No supplementary information available. |
|-------------------|-------------------------------------------|

# Methyl Mercaptan (0.0001% - 3.374%) in Nitrogen

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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: - 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.

### ADR

Transport document description : UN 1956 COMPRESSED GAS, N.O.S., 2.2  
Class (ADR) : 2 - Gases  
Hazard labels (ADR) : 2.2 - Non-flammable compressed gas



### Transport by sea

UN-No. (IMDG) : 1956  
Proper Shipping Name (IMDG) : COMPRESSED GAS, N.O.S.  
Class (IMDG) : 2.2 - Non-flammable, non-toxic gases

### Air transport

UN-No.(IATA) : 1956  
Proper Shipping Name (IATA) : COMPRESSED GAS, N.O.S.  
Class (IATA) : 2

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

#### Methanethiol (74-93-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory  
Listed on the United States SARA Section 302

|                                                    |     |
|----------------------------------------------------|-----|
| SARA Section 302 Threshold Planning Quantity (TPQ) | 500 |
|----------------------------------------------------|-----|

#### Nitrogen (7727-37-9)

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

### 15.2. International regulations

#### CANADA

#### Methanethiol (74-93-1)

Listed on the Canadian DSL (Domestic Substances List)

|                      |                                                                                                                                                                      |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WHMIS Classification | Class A - Compressed Gas<br>Class B Division 1 - Flammable Gas<br>Class D Division 1 Subdivision A - Very toxic material causing immediate and serious toxic effects |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### Nitrogen (7727-37-9)

Listed on the Canadian DSL (Domestic Substances List)

|                      |                          |
|----------------------|--------------------------|
| WHMIS Classification | Class A - Compressed Gas |
|----------------------|--------------------------|

### EU-Regulations

#### Methanethiol (74-93-1)

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

#### Nitrogen (7727-37-9)

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

# Methyl Mercaptan (0.0001% - 3.374%) in Nitrogen

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### Methanethiol (74-93-1)

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)  
Japanese Poisonous and Deleterious Substances Control Law  
Listed on the Canadian IDL (Ingredient Disclosure List)

### Nitrogen (7727-37-9)

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)

## 15.3. US State regulations

### Methanethiol (74-93-1)

U.S. - Massachusetts - Right To Know List  
U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List  
U.S. - Pennsylvania - RTK (Right to Know) List

### Nitrogen (7727-37-9)

U.S. - Massachusetts - Right To Know List  
U.S. - New Jersey - Right to Know Hazardous Substance List  
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:

|                               |                                                                  |
|-------------------------------|------------------------------------------------------------------|
| Acute Tox. 3 (Inhalation:gas) | Acute toxicity (inhalation:gas) Category 3                       |
| Aquatic Acute 1               | Hazardous to the aquatic environment - Acute Hazard Category 1   |
| Aquatic Chronic 1             | Hazardous to the aquatic environment - Chronic Hazard Category 1 |
| Compressed gas                | Gases under pressure Compressed gas                              |
| Flam. Gas 1                   | Flammable gases Category 1                                       |
| Liquefied gas                 | Gases under pressure Liquefied gas                               |
| H220                          | Extremely flammable gas                                          |
| H280                          | Contains gas under pressure; may explode if heated               |
| H331                          | Toxic if inhaled                                                 |
| H400                          | Very toxic to aquatic life                                       |
| H410                          | Very toxic to aquatic life with long lasting effects             |

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 gas mixture. To the best of Calgaz'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.*