Hydrogen Sulfide (0.0001% - 0.025%), Propane (0.1% - 0.75%), Oxygen (0.0001% - 19.49%) in Nitrogen

Safety Data Sheet 50265 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Date of issue: 04/14/2015 Version: 1.0

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

1.1. Product identifier

Product form: Mixture
Product name: Hydrogen Sulfide (0.0001% - 0.025%), Propane (0.1% - 0.75%), Oxygen (0.0001% - 19.49%) in Nitrogen
Replaces ISC MSDS No.: 1810-2764

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

U.S. Supplier: Industrial Scientific Corporation
1 Life Way
Pittsburgh, PA 15205-7500
Phone (412) 788-4353
TOLL-FREE 800-DETECTS
Fax (412) 788-8353

MANUFACTURER: CALGAZ
821 Chesapeake Drive
Cambridge, MD 21613

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
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
Hydrogen Sulfide (0.0001% - 0.025%), Propane (0.1% - 0.75%), Oxygen (0.0001% - 19.49%) in Nitrogen
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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

SECTION 3: Composition/information on ingredients

3.1. Substance
Not applicable

3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification (GHS-US)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitrogen</td>
<td>(CAS No) 7727-37-9</td>
<td>79.735 - 99.8998</td>
<td>Compressed gas, H280</td>
</tr>
<tr>
<td>Oxygen</td>
<td>(CAS No) 7782-44-7</td>
<td>0.0001 - 19.49</td>
<td>Ox. Gas 1, H270</td>
</tr>
<tr>
<td>Propane</td>
<td>(CAS No) 74-98-6</td>
<td>0.1 - 0.75</td>
<td>Flam. Gas 1, H220, Liquefied gas, H280</td>
</tr>
<tr>
<td>Hydrogen Sulfide</td>
<td>(CAS No) 7783-06-4</td>
<td>0.0001 - 0.025</td>
<td>Flam. Gas 1, H220, Liquefied gas, H280, Acute Tox. 2 (Inhalation:gas), H330, STOT SE 3, H335</td>
</tr>
</tbody>
</table>

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 : 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.
Hydrogen Sulfide (0.0001% - 0.025%), Propane (0.1% - 0.75%), Oxygen (0.0001% - 19.49%) in Nitrogen

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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.


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.

Safe use of the product: Only experienced and properly instructed persons should handle gases under pressure. Consider pressure relief device(s) in gas installations. Ensure the complete gas system was (or is regularly) checked for leaks before use. Do not remove or deface labels provided by the supplier for the identification of the cylinder contents. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt.

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

<table>
<thead>
<tr>
<th>Substance</th>
<th>Control parameters</th>
<th>ACGIH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen Sulfide (0.0001% - 0.025%), Propane (0.1% - 0.75%), Oxygen (0.0001% - 19.49%) in Nitrogen</td>
<td>ACGIH Not applicable</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>OSHA Not applicable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hydrogen Sulfide (7783-06-4)</td>
<td>ACGIH ACGIH TWA (ppm)</td>
<td>1 ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ACGIH ACGIH STEL (ppm)</td>
<td>5 ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>OSHA OSHA PEL (Ceiling) (ppm)</td>
<td>20 ppm</td>
<td></td>
</tr>
<tr>
<td>Propane (74-98-6)</td>
<td>ACGIH ACGIH TWA (ppm)</td>
<td>1000 ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>OSHA OSHA PEL (TWA) (mg/m³)</td>
<td>1800 mg/m³</td>
<td></td>
</tr>
<tr>
<td></td>
<td>OSHA OSHA PEL (TWA) (ppm)</td>
<td>1000 ppm</td>
<td></td>
</tr>
<tr>
<td>Oxygen (7782-44-7)</td>
<td>ACGIH Not applicable</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>OSHA Not applicable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nitrogen (7727-37-9)</td>
<td>ACGIH Not applicable</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>OSHA Not applicable</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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:

Eye 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:

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Gas
Appearance: Clear, colorless gas.
Color: Colorless
Odor: Rotten eggs. Sulfide-like
Odor threshold: No Data Available
pH: No data available
Melting point: No Data Available
Freezing point: No data available
Boiling point: No Data Available
Flash point: No Data Available
Relative evaporation rate (butyl acetate=1): No data available
Flammability (solid, gas): See Section 2.1 and 2.2
Explosion limits: Not applicable - not flammable
Hydrogen Sulfide (0.0001% - 0.025%), Propane (0.1% - 0.75%), Oxygen (0.0001% - 19.49%) in Nitrogen

Explosive properties : Not applicable - not flammable.
Oxidizing properties : None.
Vapor pressure : No data available
Relative density : No data available
Relative vapor density at 20 °C : No data available
Molecular mass : Not applicable for gas-mixtures.
Relative gas density : Similar to air
Solubility : No data available
Log Pow : No data available
Log Kow : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Viscosity : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available

9.2. Other information
No additional information available

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.

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

<table>
<thead>
<tr>
<th>Chemical</th>
<th>LC50 inhalation rat (mg/l)</th>
<th>LC50 inhalation rat (ppm)</th>
<th>ATE US (gases)</th>
<th>ATE US (vapors)</th>
<th>ATE US (dust, mist)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen Sulfide</td>
<td>0.99 mg/l (Exposure time: 1 h)</td>
<td>356 ppm/4h</td>
<td>356.000 ppmV/4h</td>
<td>0.990 mg/l/4h</td>
<td>0.990 mg/l/4h</td>
</tr>
<tr>
<td>Propane</td>
<td>658 mg/l/4h</td>
<td>282800 ppm/4h</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oxygen</td>
<td>800000 ppm/4h</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nitrogen</td>
<td>820000 ppm/4h</td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

Skin corrosion/irritation : Not classified
## Hydrogen Sulfide (0.0001% - 0.025%), Propane (0.1% - 0.75%), Oxygen (0.0001% - 19.49%) in Nitrogen

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| Serious eye damage/irritation | Not classified |
| 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

<table>
<thead>
<tr>
<th>Hydrogen Sulfide (7783-06-4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
</tr>
<tr>
<td>LC50 fish 2</td>
</tr>
</tbody>
</table>

#### 12.2 Persistence and degradability

<table>
<thead>
<tr>
<th>Hydrogen Sulfide (7783-06-4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Persistence and degradability</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Propane (74-98-6)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Persistence and degradability</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Oxygen (7782-44-7)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Persistence and degradability</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Nitrogen (7727-37-9)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Persistence and degradability</td>
</tr>
</tbody>
</table>

#### 12.3 Bioaccumulative potential

<table>
<thead>
<tr>
<th>Hydrogen Sulfide (7783-06-4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCF fish 1</td>
</tr>
<tr>
<td>Log Pow</td>
</tr>
<tr>
<td>Bioaccumulative potential</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Propane (74-98-6)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Log Pow</td>
</tr>
<tr>
<td>Bioaccumulative potential</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Oxygen (7782-44-7)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Log Pow</td>
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<tr>
<td>Bioaccumulative potential</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Nitrogen (7727-37-9)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Log Pow</td>
</tr>
<tr>
<td>Bioaccumulative potential</td>
</tr>
</tbody>
</table>
Hydrogen Sulfide (0.0001% - 0.025%), Propane (0.1% - 0.75%), Oxygen (0.0001% - 19.49%) in Nitrogen

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12.4. Mobility in soil

<table>
<thead>
<tr>
<th>Substance</th>
<th>Environment</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen Sulfide</td>
<td>Ecology - soil</td>
<td>Because of its high volatility, the product is unlikely to cause ground or water pollution.</td>
</tr>
<tr>
<td>Propane</td>
<td>Ecology - soil</td>
<td>Because of its high volatility, the product is unlikely to cause ground or water pollution.</td>
</tr>
<tr>
<td>Oxygen</td>
<td>Ecology - soil</td>
<td>No ecological damage caused by this product.</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>Ecology - soil</td>
<td>No ecological damage caused by this product.</td>
</tr>
</tbody>
</table>

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 www.cganet.com for more guidance on suitable disposal methods.

SECTION 14: Transport information

Department of Transportation (DOT)
In accordance with DOT

Transport document description: UN1956 Compressed gas, n.o.s. Oxygen, Nitrogen

UN-No. (DOT): UN1956

Proper Shipping Name (DOT): Compressed gas, n.o.s. Oxygen, Nitrogen

Hazard labels (DOT): 2.2 - Non-flammable gas

DOT Packaging Non Bulk (49 CFR 173.xxx): 302;305
DOT Packaging Bulk (49 CFR 173.xxx): 314;315
DOT Symbols: G - Identifies PSN requiring a technical name

DOT Packaging Exceptions (49 CFR 173.xxx): 306;307
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.

ADR

Transport document description: UN 1956, 2.2, (E)
Class (ADR): 2 - Gases
Hazard identification number (Kemler No.): 20
Hydrogen Sulfide (0.0001% - 0.025%), Propane (0.1% - 0.75%), Oxygen (0.0001% - 19.49%) in Nitrogen

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Classification code (ADR) : 1A
Hazard labels (ADR) : 2.2 - Non-flammable compressed gas

Tunnel restriction code (ADR) : E
Limited quantities (ADR) : 120ml
Excepted quantities (ADR) : E1

Transport by sea
UN-No. (IMDG) : 1956
Proper Shipping Name (IMDG) : COMPRESSED GAS, N.O.S.
Class (IMDG) : 2 - 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

Hydrogen Sulfide (7783-06-4)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on the United States SARA Section 302
Listed on United States SARA Section 313

SARA Section 302 Threshold Planning Quantity (TPQ) : 500
SARA Section 313 - Emission Reporting : 1.0 %

Propane (74-98-6)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Oxygen (7782-44-7)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Nitrogen (7727-37-9)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

Hydrogen Sulfide (7783-06-4)
Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification

| Class A - Compressed Gas
| Class B Division 1 - Flammable Gas
| Class D Division 1 Subdivision A - Very toxic material causing immediate and serious toxic effects
| Class D Division 2 Subdivision B - Toxic material causing other toxic effects

Propane (74-98-6)
Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification

| Class A - Compressed Gas
| Class B Division 1 - Flammable Gas

### Hydrogen Sulfide (0.0001% - 0.025%), Propane (0.1% - 0.75%), Oxygen (0.0001% - 19.49%) in Nitrogen

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<table>
<thead>
<tr>
<th>Component</th>
<th>Listings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oxygen (7782-44-7)</td>
<td>Listed on the Canadian DSL (Domestic Substances List)</td>
</tr>
<tr>
<td>WHMIS Classification</td>
<td>Class A - Compressed Gas</td>
</tr>
<tr>
<td>Nitrogen (7727-37-9)</td>
<td>Listed on the Canadian DSL (Domestic Substances List)</td>
</tr>
<tr>
<td>EU-Regulations</td>
<td></td>
</tr>
<tr>
<td>Hydrogen Sulfide (7783-06-4)</td>
<td>Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)</td>
</tr>
<tr>
<td>Propane (74-98-6)</td>
<td>Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)</td>
</tr>
<tr>
<td>Oxygen (7782-44-7)</td>
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</tr>
<tr>
<td>Nitrogen (7727-37-9)</td>
<td>Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)</td>
</tr>
<tr>
<td>Classification according to Regulation (EC) No. 1272/2008 [CLP]</td>
<td>Not classified</td>
</tr>
<tr>
<td>Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]</td>
<td>No additional information available</td>
</tr>
<tr>
<td>National regulations</td>
<td></td>
</tr>
<tr>
<td>Hydrogen Sulfide (7783-06-4)</td>
<td>Listed on the AICS (Australian Inventory of Chemical Substances)</td>
</tr>
<tr>
<td>Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)</td>
<td></td>
</tr>
<tr>
<td>Listed on the Japanese ENCS (Existing &amp; New Chemical Substances) inventory</td>
<td></td>
</tr>
<tr>
<td>Listed on the Korean ECL (Existing Chemicals List)</td>
<td></td>
</tr>
<tr>
<td>Listed on NZIoC (New Zealand Inventory of Chemicals)</td>
<td></td>
</tr>
<tr>
<td>Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)</td>
<td></td>
</tr>
<tr>
<td>Listed on the Canadian IDL (Ingredient Disclosure List)</td>
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</tr>
<tr>
<td>Propane (74-98-6)</td>
<td>Listed on the AICS (Australian Inventory of Chemical Substances)</td>
</tr>
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</tr>
<tr>
<td>Listed on NZIoC (New Zealand Inventory of Chemicals)</td>
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<tr>
<td>Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)</td>
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<td>Oxygen (7782-44-7)</td>
<td>Listed on the AICS (Australian Inventory of Chemical Substances)</td>
</tr>
<tr>
<td>Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)</td>
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<tr>
<td>Listed on the Korean ECL (Existing Chemicals List)</td>
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<tr>
<td>Nitrogen (7727-37-9)</td>
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</tr>
</tbody>
</table>

### 15.3. US State regulations
Hydrogen Sulfide (0.0001% - 0.025%), Propane (0.1% - 0.75%), Oxygen (0.0001% - 19.49%) in Nitrogen

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

## Hydrogen Sulfide (7783-06-4)
- 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

## Propane (74-98-6)
- 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

## Oxygen (7782-44-7)
- 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

## 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:**

<table>
<thead>
<tr>
<th>Acute Tox. 2 (Inhalation:gas)</th>
<th>Acute toxicity (inhalation:gas) Category 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compressed gas</td>
<td>Gases under pressure Compressed gas</td>
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<tr>
<td>Flam. Gas 1</td>
<td>Flammable gases Category 1</td>
</tr>
<tr>
<td>Liquefied gas</td>
<td>Gases under pressure Liquefied gas</td>
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<tr>
<td>Ox. Gas 1</td>
<td>Oxidizing gases Category 1</td>
</tr>
<tr>
<td>STOT SE 3</td>
<td>Specific target organ toxicity (single exposure) Category 3</td>
</tr>
<tr>
<td>H220</td>
<td>Extremely flammable gas</td>
</tr>
<tr>
<td>H270</td>
<td>May cause or intensify fire; oxidizer</td>
</tr>
<tr>
<td>H280</td>
<td>Contains gas under pressure; may explode if heated</td>
</tr>
<tr>
<td>H330</td>
<td>Fatal if inhaled</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation</td>
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</tbody>
</table>

**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.