Oxygen (0 - 19%) Methane (0.001 - 5%) Sulfur Dioxide (0.0005 - 0.025%) in balance Nitrogen

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

1.1. Product identifier
Product form: Mixture
Product name: Oxygen (0 - 19%) Methane (0.001 - 5%) Sulfur Dioxide (0.0005 - 0.025%) in balance Nitrogen
Replaces ISC MSDS NO.: 1810-9324

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

2.2. Label elements
GHS-US labeling
Hazard pictograms (GHS-US):

Signal word (GHS-US): Warning
Hazard statements (GHS-US): H280 - Contains gas under pressure; may explode if heated
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
CGA-PG14 - Approach suspected leak area with caution
CGA-PG02 - Protect from sunlight when ambient temperature exceeds 52°C (125°F)
P403 - Store in a well-ventilated place

2.3. Other hazards
No additional information available

2.4. Unknown acute toxicity (GHS-US)
No data available
### 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>75.975 - 99.9985</td>
<td>Compressed gas, H280</td>
</tr>
<tr>
<td>Oxygen</td>
<td>(CAS No) 7782-44-7</td>
<td>0 - 19</td>
<td>Ox. Gas 1, H270</td>
</tr>
<tr>
<td>Methane</td>
<td>(CAS No) 74-82-8</td>
<td>0.001 - 5</td>
<td>Flam. Gas 1, H220</td>
</tr>
<tr>
<td>Sulphur dioxide</td>
<td>(CAS No) 7446-09-5</td>
<td>0.0005 - 0.025</td>
<td>Liquefied gas, H280, Acute Tox. 3 (Inhalation:gas), Skin Corr. 1B, H314, Eye Dam. 1, H318</td>
</tr>
</tbody>
</table>

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- **First-aid measures general**: If you feel unwell, seek medical advice (show the label where possible).
- **First-aid measures after inhalation**: Remove 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**: Adverse effects not expected from this product.
- **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.
Oxygen (0 - 19%) Methane (0.001 - 5%) Sulfur Dioxide (0.0005 - 0.025%) in balance Nitrogen

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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.
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.
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 use of the product
Only experienced and properly instructed persons should handle gases under pressure. 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.

7.3. Specific end use(s)
Test gas/Calibration gas.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Gas</th>
<th>USA ACGIH</th>
<th>ACGIH TWA (ppm)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Methane (74-82-8)</td>
<td></td>
<td>1000 ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>USA OSHA</td>
<td>OSHA PEL (TWA) (mg/m³)</td>
<td>13 mg/m³</td>
</tr>
<tr>
<td></td>
<td>USA OSHA</td>
<td>OSHA PEL (TWA) (ppm)</td>
<td>5 ppm</td>
</tr>
<tr>
<td>Sulphur dioxide (7446-09-5)</td>
<td></td>
<td>0.25 ppm</td>
<td></td>
</tr>
<tr>
<td>Nitrogen (7727-37-9)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Oxygen (0 - 19%) Methane (0.001 - 5%) Sulfur Dioxide (0.0005 - 0.025%) in balance Nitrogen

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8.2. Exposure controls

Appropriate engineering controls: Provide adequate general and local exhaust ventilation. Systems under pressure should be regularly checked for leakages. Ensure exposure is below occupational exposure limits. Consider work permit system e.g. for maintenance activities.


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.


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.


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: Pungent; sulfide-like
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): Not applicable - not flammable
Vapor pressure: Not applicable.
Relative vapor density at 20 °C: No data available
Relative density: No data available
Relative gas density: Heavier than air.
Solubility: Water: Solubility in water of component(s) of the mixture:
• : 39 mg/l • : 26 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: 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
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>Substance</th>
<th>LC50 inhalation rat (ppm)</th>
<th>ATE US (gases)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oxygen (7782-44-7)</td>
<td>400000 ppm/4h</td>
<td>410000.00000000 ppmV/4h</td>
</tr>
<tr>
<td>Methane (74-82-8)</td>
<td>410000 ppm/4h</td>
<td>1260.00000000 ppmV/4h</td>
</tr>
<tr>
<td>Sulphur dioxide (7446-09-5)</td>
<td>1260 ppm/4h</td>
<td></td>
</tr>
<tr>
<td>Nitrogen (7727-37-9)</td>
<td>410000 ppm/4h</td>
<td>410000.00000000 ppmV/4h</td>
</tr>
</tbody>
</table>

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

12.1. Toxicity
Ecology - general: No ecological damage caused by this product.
### 12.2. Persistence and degradability

<table>
<thead>
<tr>
<th>Substance</th>
<th>Persistence and degradability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oxygen (7782-44-7)</td>
<td>Persistence and degradability No data available.</td>
</tr>
<tr>
<td>Methane (74-82-8)</td>
<td>Persistence and degradability The substance is biodegradable. Unlikely to persist. No data available.</td>
</tr>
<tr>
<td>Sulphur dioxide (7446-09-5)</td>
<td>Persistence and degradability Not applicable for inorganic gases.</td>
</tr>
<tr>
<td>Nitrogen (7727-37-9)</td>
<td>Persistence and degradability No ecological damage caused by this product.</td>
</tr>
</tbody>
</table>

### 12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>Substance</th>
<th>Log Pow</th>
<th>Log Kow</th>
<th>Bioaccumulative potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oxygen (7782-44-7)</td>
<td></td>
<td></td>
<td>Not applicable for gas-mixtures.</td>
</tr>
<tr>
<td>Methane (74-82-8)</td>
<td>1.09</td>
<td></td>
<td>No ecological damage caused by this product.</td>
</tr>
<tr>
<td>Sulphur dioxide (7446-09-5)</td>
<td></td>
<td></td>
<td>Not expected to bioaccumulate due to the low log Kow (log Kow &lt; 4). Refer to section 9.</td>
</tr>
<tr>
<td>Nitrogen (7727-37-9)</td>
<td></td>
<td></td>
<td>No ecological damage caused by this product.</td>
</tr>
</tbody>
</table>

### 12.4. Mobility in soil

<table>
<thead>
<tr>
<th>Substance</th>
<th>Mobility in soil</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oxygen (7782-44-7)</td>
<td>Ecology - soil No ecological damage caused by this product.</td>
</tr>
<tr>
<td>Methane (74-82-8)</td>
<td>Mobility in soil No data available.</td>
</tr>
<tr>
<td>Ecology - soil</td>
<td>Because of its high volatility, the product is unlikely to cause ground or water pollution.</td>
</tr>
<tr>
<td>Sulphur dioxide (7446-09-5)</td>
<td>Ecology - soil Because of its high volatility, the product is unlikely to cause ground or water pollution.</td>
</tr>
<tr>
<td>Nitrogen (7727-37-9)</td>
<td>Ecology - soil No ecological damage caused by this product.</td>
</tr>
</tbody>
</table>

### 12.5. Other adverse effects

| Effect on ozone layer            | None.                                                                             |
| Effect on the global warming     | Contains greenhouse gas(es) not covered by 842/2006/EC.                          |
**Oxygen (0 - 19%) Methane (0.001 - 5%) Sulfur Dioxide (0.0005 - 0.025%) in balance Nitrogen**

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**SECTION 13: Disposal considerations**

13.1. Waste treatment methods

Waste treatment methods : Contact supplier if guidance is required. May be vented to atmosphere. 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**

In accordance with DOT

Transport document description : UN1956 Compressed gas, n.o.s. (Oxygen, Nitrogen)
UN-No.(DOT) : 1956
DOT NA no. : UN1956
DOT Proper Shipping Name : Compressed gas, n.o.s. (Oxygen, Nitrogen)

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

DOT Symbols : G - Identifies PSN requiring a technical name
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.

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 :

**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
**Oxygen (0 - 19%) Methane (0.001 - 5%) Sulfur Dioxide (0.0005 - 0.025%) in balance Nitrogen**

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### Sulphur dioxide (7446-09-5)

| 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 |

### 15.2. International regulations

**CANADA**

**Oxygen (7782-44-7)**

| Listed on the Canadian DSL (Domestic Substances List) |
| WHMIS Classification | Class A - Compressed Gas |
| | Class C - Oxidizing Material |

**Methane (74-82-8)**

| Listed on the Canadian DSL (Domestic Substances List) |
| WHMIS Classification | Class A - Compressed Gas |
| | Class B Division 1 - Flammable Gas |

**Sulphur dioxide (7446-09-5)**

| Listed on the Canadian DSL (Domestic Substances List) |
| WHMIS Classification | Class A - Compressed 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 |
| | Class E - Corrosive Material |

**Nitrogen (7727-37-9)**

| Listed on the Canadian DSL (Domestic Substances List) |
| WHMIS Classification | Class A - Compressed Gas |

**EU-Regulations**

**Sulphur dioxide (7446-09-5)**

| 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

**Sulphur dioxide (7446-09-5)**

| Listed on 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) |
| Listed on the Canadian IDL (Ingredient Disclosure List) |

### 15.3. US State regulations

**Sulphur dioxide (7446-09-5)**

<table>
<thead>
<tr>
<th>U.S. - California - Proposition 65 - Carcinogens List</th>
<th>U.S. - California - Proposition 65 - Developmental Toxicity</th>
<th>U.S. - California - Proposition 65 - Reproductive Toxicity - Female</th>
<th>U.S. - California - Proposition 65 - Reproductive Toxicity - Male</th>
<th>No significance risk level (NSRL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**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 |
Oxygen (0 - 19%) Methane (0.001 - 5%) Sulfur Dioxide (0.0005 - 0.025%) in balance Nitrogen

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### Methane (74-82-8)
- 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

### Sulfur dioxide (7446-09-5)
- 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.
- Revision date: 09/18/2014
- 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: see section 16:

<table>
<thead>
<tr>
<th>Acute Tox. 3 (Inhalation:gas)</th>
<th>Acute toxicity (inhalation:gas) Category 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compressed gas</td>
<td>Gases under pressure Compressed gas</td>
</tr>
<tr>
<td>Eye Dam. 1</td>
<td>Serious eye damage/eye irritation Category 1</td>
</tr>
<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>
</tr>
<tr>
<td>Ox. Gas 1</td>
<td>Oxidizing gases Category 1</td>
</tr>
<tr>
<td>Skin Corr. 1B</td>
<td>Skin corrosion/irritation Category 1B</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>H314</td>
<td>Causes severe skin burns and eye damage</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage</td>
</tr>
<tr>
<td>H331</td>
<td>Toxic if inhaled</td>
</tr>
</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.