Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name
Oxygen, Carbon Dioxide, Sulfur Hexafluoride, Argon, Helium, Neon, Krypton, Xenon, Nitrogen, and Carbon tetrafluoride Gas Mixture

Product Description
Classification determined in accordance with Compressed Gas Association standards

Product Use
Industrial and Specialty Gas Applications

Restrictions on Use
None known

Details of the supplier of the safety data sheet
MATHESON TRI-GAS, INC.
150 Allen Road, Suite 302
Basking Ridge, NJ 07920
General Information: 1-800-416-2505
Emergency #: 1-800-424-9300 (CHEMTREC)
Outside the US: 703-527-3887 (Call collect)

Section 2 - HAZARDS IDENTIFICATION

Classification in accordance with paragraph (d) of 29 CFR 1910.1200.

Gases Under Pressure - Compressed gas
Simple Asphyxiant

GHS Label Elements
Symbol(s)

Signal Word
Warning

Hazard Statement(s)
Contains gas under pressure; may explode if heated.
May displace oxygen and cause rapid suffocation.

Precautionary Statement(s)
Prevention
None needed according to classification criteria.

Response
None needed according to classification criteria.

Storage
Protect from sunlight. Store in a well-ventilated place.

Disposal
Dispose of contents/container in accordance with local/regional/national/international regulations.

Other Hazards
Rapid release of compressed gas may cause frostbite. Concentration(s) of oxidizing component(s) will not result in an oxidizing gas classification.

### Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CAS</th>
<th>Component Name</th>
<th>Percent</th>
</tr>
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<tbody>
<tr>
<td>7727-37-9</td>
<td>Nitrogen</td>
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<tr>
<td>7440-37-1</td>
<td>Argon</td>
<td>0-100</td>
</tr>
<tr>
<td>7440-59-7</td>
<td>Helium</td>
<td>0-100</td>
</tr>
<tr>
<td>7440-01-9</td>
<td>Neon</td>
<td>0-100</td>
</tr>
<tr>
<td>7439-90-9</td>
<td>Krypton</td>
<td>0-100</td>
</tr>
<tr>
<td>7440-63-3</td>
<td>Xenon</td>
<td>0-100</td>
</tr>
<tr>
<td>124-38-9</td>
<td>Carbon dioxide</td>
<td>0-100</td>
</tr>
<tr>
<td>2551-62-4</td>
<td>Sulfur hexafluoride</td>
<td>0-100</td>
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<tr>
<td>75-73-0</td>
<td>Carbon tetrafluoride</td>
<td>0-100</td>
</tr>
<tr>
<td>7782-44-7</td>
<td>Oxygen</td>
<td>≤23.5</td>
</tr>
</tbody>
</table>

### Section 4 - FIRST AID MEASURES

**Inhalation**
If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.

**Skin**
If frostbite or freezing occur, immediately flush with plenty of lukewarm water (105-115°F; 41-46°C). DO NOT USE HOT WATER. If warm water is not available, gently wrap affected parts in blankets. Get immediate medical attention.

**Eyes**
Flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Then get immediate medical attention.

**Ingestion**
If swallowed, get medical attention.

**Most Important Symptoms/Effects**

**Acute**
Frostbite, suffocation, depression of central nervous system

**Delayed**
No information on significant adverse effects.

**Indication of any immediate medical attention and special treatment needed**
For inhalation, consider oxygen.

### Section 5 - FIRE FIGHTING MEASURES

**Extinguishing Media**
Safety Data Sheet

Material Name: Oxygen, Carbon Dioxide, Sulfur Hexafluoride, Argon, Helium, Neon, Krypton, Xenon, Nitrogen, and Carbon tetrafluoride Gas Mixture

SDS ID: 00244702

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures
Wear personal protective clothing and equipment, see Section 8.

Methods and Materials for Containment and Cleaning Up
Stop leak if possible without personal risk. Keep unnecessary people away, isolate hazard area and deny entry. Stay upwind and keep out of low areas. Do not touch or walk through spilled material. If possible, turn leaking containers so that gas escapes rather than liquid. Do not direct water at spill or source of leak. Allow substance to evaporate. Ventilate closed spaces before entering.

Environmental Precautions
Avoid release to the environment.

Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling
Avoid breathing gas. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling.

Conditions for Safe Storage, Including any Incompatibilities
Protect from sunlight. Store in a well-ventilated place.

Incompatible Materials
Metals, oxidizing materials, combustible materials

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

<table>
<thead>
<tr>
<th>Component</th>
<th>Exposure Limit</th>
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<tbody>
<tr>
<td>Nitrogen</td>
<td>7727-37-9</td>
</tr>
<tr>
<td>ACGIH:</td>
<td>(See Appendix F: Minimal Oxygen Content)</td>
</tr>
<tr>
<td>Argon</td>
<td>7440-37-1</td>
</tr>
</tbody>
</table>
### ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI)

There are no biological limit values for any of this product's components.

### Engineering Controls

Provide local exhaust or process enclosure ventilation system. Ensure compliance with applicable exposure limits.

---

<table>
<thead>
<tr>
<th>Material</th>
<th>ACGIH</th>
<th>NIOSH</th>
<th>OSHA (US)</th>
<th>Mexico</th>
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<td>AC</td>
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<td></td>
<td>(See Appendix F: Minimal Oxygen Content)</td>
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<tr>
<td><strong>Helium</strong> 7440-59-7</td>
<td>ACGIH:  </td>
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<tr>
<td><strong>Neon</strong> 7440-01-9</td>
<td>ACGIH:  </td>
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<tr>
<td><strong>Carbon dioxide 124-38-9</strong></td>
<td>ACGIH: 5000 ppm TWA</td>
<td>30000 ppm STEL</td>
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<td></td>
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<tr>
<td><strong>Sulfur hexafluoride 2551-62-4</strong></td>
<td>ACGIH: 1000 ppm TWA</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**ACGIH**

**Threshold Limit Values**

**Biological Exposure Indices (BEI)**

There are no biological limit values for any of this product's components.
Safety Data Sheet

Material Name: Oxygen, Carbon Dioxide, Sulfur Hexafluoride, Argon, Helium, Neon, Krypton, Xenon, Nitrogen, and Carbon tetrafluoride Gas Mixture

Individual Protection Measures, such as Personal Protective Equipment

Eye/face protection
For the gas: Eye protection not required, but recommended. For the liquid: Wear splash resistant safety goggles. Contact lenses should not be worn. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Skin Protection
For the gas: Protective clothing is not required, but recommended. For the liquid: Wear appropriate protective, cold insulating clothing.

Respiratory Protection
Under conditions of frequent use or heavy exposure, respiratory protection may be needed. Respiratory protection is ranked in order from minimum to maximum. Consider warning properties before use. Any supplied-air respirator with a full facepiece that is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure-demand or other positive-pressure mode. Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode.

Glove Recommendations
For the gas: Protective gloves are not required, but recommended. For the liquid: Wear insulated gloves.

<table>
<thead>
<tr>
<th>Section 9 - PHYSICAL AND CHEMICAL PROPERTIES</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance</strong></td>
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<tr>
<td><strong>Odor</strong></td>
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<td><strong>Odor Threshold</strong></td>
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<td><strong>Melting Point</strong></td>
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<td><strong>Boiling Point Range</strong></td>
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<tr>
<td><strong>Evaporation Rate</strong></td>
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<td><strong>Autoignition Temperature</strong></td>
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<td><strong>Lower Explosive Limit</strong></td>
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<tr>
<td><strong>Upper Explosive Limit</strong></td>
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<td><strong>Vapor Density (air=1)</strong></td>
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<tr>
<td><strong>Water Solubility</strong></td>
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<tr>
<td><strong>Viscosity</strong></td>
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<td><strong>Solubility (Other)</strong></td>
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<tr>
<td><strong>Physical Form</strong></td>
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</table>

<table>
<thead>
<tr>
<th>Section 10 - STABILITY AND REACTIVITY</th>
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</table>

Reactivity
Safety Data Sheet

Material Name: Oxygen, Carbon Dioxide, Sulfur Hexafluoride, Argon, Helium, Neon, Krypton, Xenon, Nitrogen, and Carbon tetrafluoride Gas Mixture

SDS ID: 00244702

No reactivity hazard is expected.

**Chemical Stability**
Stable at normal temperatures and pressure.

** Possibility of Hazardous Reactions**
Will not polymerize.

**Conditions to Avoid**
Protect from physical damage and heat. Containers may rupture or explode if exposed to heat.

**Incompatible Materials**
Metals, oxidizing materials, combustible materials

**Hazardous decomposition products**
Oxides of carbon, oxides of nitrogen, oxides of sulfur, fluorinated compounds

### Section 11 - TOXICOLOGICAL INFORMATION

**Information on Likely Routes of Exposure**

**Inhalation**
Nausea, vomiting, difficulty breathing, headache, drowsiness, dizziness, tingling sensation, loss of coordination, convulsions, coma, suffocation

**Skin Contact**
Frostbite, irritation

**Eye Contact**
Frostbite, irritation

**Ingestion**
Ingestion of gas is unlikely.

**Acute and Chronic Toxicity**

**Component Analysis - LD50/LC50**
The components of this material have been reviewed in various sources and no selected endpoints have been identified.

**Product Toxicity Data**

**Acute Toxicity Estimate**
No data available.

**Immediate Effects**
Frostbite, suffocation, depression of central nervous system

**Delayed Effects**
No information on significant adverse effects.

**Irritation/Corrosivity Data**
No data available.

**Respiratory Sensitization**
No data available.

**Dermal Sensitization**
No data available.

**Component Carcinogenicity**
None of this product's components are listed by ACGIH, IARC, NTP, DFG or OSHA.

**Germ Cell Mutagenicity**
No data available.

**Tumorigenic Data**
No data available

** Reproductive Toxicity**
No data available.
Specific Target Organ Toxicity - Single Exposure
Central nervous system
Specific Target Organ Toxicity - Repeated Exposure
No target organs identified.
Aspiration hazard
No data available.
Medical Conditions Aggravated by Exposure
No data available.
Additional Data
No additional information is available.

Section 12 - ECOLOGICAL INFORMATION
Component Analysis - Aquatic Toxicity
No LOLO ecotoxicity data are available for this product's components.
Persistence and Degradability
No data available for the mixture.
Bioaccumulative Potential
No data available for the mixture.
Mobility
No data available for the mixture.

Section 13 - DISPOSAL CONSIDERATIONS
Disposal Methods
Dispose in accordance with all applicable regulations.
Component Waste Numbers
The U.S. EPA has not published waste numbers for this product’s components.

Section 14 - TRANSPORT INFORMATION
US DOT Information:
Shipping Name: COMPRESSED GAS, N.O.S. , ( Contains: highest concentration component , second highest concentration component )
Hazard Class: 2.2
UN/NA #: UN1956
Required Label(s): 2.2

IMDG Information:
Shipping Name: COMPRESSED GAS, N.O.S. , ( Contains: highest concentration component , second highest concentration component )
Hazard Class: 2.2
UN#: UN1956
Required Label(s): 2.2
International Bulk Chemical Code
This material does not contain any chemicals required by the IBC Code to be identified as dangerous chemicals in bulk.

Section 15 - REGULATORY INFORMATION
U.S. Federal Regulations
None of this product's components are listed under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.
Safety Data Sheet

Material Name: Oxygen, Carbon Dioxide, Sulfur Hexafluoride, Argon, Helium, Neon, Krypton, Xenon, Nitrogen, and Carbon tetrafluoride Gas Mixture

SARA Section 311/312 (40 CFR 370 Subparts B and C) reporting categories
Gas Under Pressure; Simple Asphyxiant

U.S. State Regulations
The following components appear on one or more of the following state hazardous substances lists:

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>CA</th>
<th>MA</th>
<th>MN</th>
<th>NJ</th>
<th>PA</th>
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<tbody>
<tr>
<td>Nitrogen</td>
<td>7727-37-9</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Argon</td>
<td>7440-37-1</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<td>Helium</td>
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<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<td>Neon</td>
<td>7440-01-9</td>
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<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Carbon dioxide</td>
<td>124-38-9</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Sulfur hexafluoride</td>
<td>2551-62-4</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Carbon tetrafluoride</td>
<td>75-73-0</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Oxygen</td>
<td>7782-44-7</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Not listed under California Proposition 65

Canada Regulations

Canadian WHMIS Ingredient Disclosure List (IDL)
Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL.

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
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<tbody>
<tr>
<td>Carbon dioxide</td>
<td>124-38-9</td>
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<tr>
<td></td>
<td>1 %</td>
</tr>
<tr>
<td>Sulfur hexafluoride</td>
<td>2551-62-4</td>
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<td>1 %</td>
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Component Analysis - Inventory

Nitrogen (7727-37-9)

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<tbody>
<tr>
<td>Yes</td>
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</table>
Safety Data Sheet

Material Name: Oxygen, Carbon Dioxide, Sulfur Hexafluoride, Argon, Helium, Neon, Krypton, Xenon, Nitrogen, and Carbon tetrafluoride Gas Mixture

 SDS ID: 00244702

### Argon (7440-37-1)

<table>
<thead>
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<th>Country</th>
<th>US</th>
<th>CA</th>
<th>EU</th>
<th>AU</th>
<th>PH</th>
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<th>ISHL</th>
<th>KR</th>
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<th>NZ</th>
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### Helium (7440-59-7)

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### Neon (7440-01-9)

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### Krypton (7439-90-9)

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### Xenon (7440-63-3)
Material Name: Oxygen, Carbon Dioxide, Sulfur Hexafluoride, Argon, Helium, Neon, Krypton, Xenon, Nitrogen, and Carbon tetrafluoride Gas Mixture

### Carbon Dioxide (124-38-9)

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<tbody>
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### Sulfur Hexafluoride (2551-62-4)

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### Carbon Tetrafluoride (75-73-0)

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Safety Data Sheet

Material Name: Oxygen, Carbon Dioxide, Sulfur Hexafluoride, Argon, Helium, Neon, Krypton, Xenon, Nitrogen, and Carbon tetrafluoride Gas Mixture

Section 16 - OTHER INFORMATION

NFPA Ratings
Health: 2 Fire: 0 Reactivity: 0

Summary of Changes
Updated: 08/25/2016

Key / Legend
ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CA/MA/MN/NJ/PA - California/Massachusetts/Minnnesota/New Jersey/Pennsylvania; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CFR - Code of Federal Regulations (US); CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EC - European Commission; EEC - European Economic Community; EIN - European Inventory of (Existing Commercial Chemical Substances); EINECS - European Inventory of Existing Commercial Chemical Substances; ENCS - Japan Existing and New Chemical Substance Inventory; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; F - Background (for Venezuela Biological Exposure Indices); IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; ISHL - Japan Industrial Safety and Health Law; IUCLID - International Uniform Chemical Information Database; JP - Japan; Kow - Octanol/water partition coefficient; KR KECI Annex 1 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL); KR KECI Annex 2 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL); KR - Korea; LD50/LC50 - Lethal Dose/ Lethal Concentration; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of L1sts™ - ChemADVISOR’s Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; MX - Mexico; Ne- Non-specific; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; Nq - Non-quantitative; NSL - Non-Domestic Substance List (Canada); NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PEL - Permissible Exposure Limit; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH-Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; Sc - Semi-quantitative; STEL - Short-term Exposure Limit; TCCA - Korea Toxic Chemicals Control Act; TDG - Transportation of Dangerous Goods; TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act; TW - Taiwan; TWA - Time Weighted Average; UEL - Upper Explosive Limit; UN/NA - United Nations /North American; US - United States; VLE - Exposure Limit Value (Mexico); VN (Draft) - Vietnam (Draft); WHMIS - Workplace Hazardous Materials Information System (Canada).

Other Information

Disclaimer:
Safety Data Sheet

Material Name: Oxygen, Carbon Dioxide, Sulfur Hexafluoride, Argon, Helium, Neon, Krypton, Xenon, Nitrogen, and Carbon tetrafluoride Gas Mixture

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