

## Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2012 and GHS Rev 03.

Issue date 07/18/2020

Reviewed on 07/18/2020

### \* 1 Identification

**Product Identifier****Trade Name: Precision Calibration Gas Mixture****Product Number:** G-42818**Relevant identified uses of the substance or mixture and uses advised against:**

Used for calibration of gas measuring devices. Not suitable for human consumption.

**Product Description:**

Calibration gas mixture consisting of Carbon Monoxide, Hydrogen Sulfide, Sulfur Dioxide, Oxygen and Nitrogen.

**Application of the substance / the mixture:** Pressurized gas, requires appropriate regulator to dispense.**Details of the Supplier of the Safety Data Sheet:****Manufacturer/Supplier:**

Gasco Affiliates, LLC

320 Scarlett Blvd.

Oldsmar, FL 34677

TELEPHONE NUMBER: (800) 910-0051

FAX NUMBER: (866) 755-8920

E-MAIL: info@gascogas.com

**Emergency telephone number:**

Inside the US: 1-833-723-3267 (Chemtrec, 24 hours)

Outside the US: 1-703-527-3887 (Chemtrec, 24 hours)

### 2 Hazard(s) Identification

**Classification of the substance or mixture:**

Gas cylinder

Press. Gas      H280      Contains gas under pressure; may explode if heated.



Acute Tox. 4      H332      Harmful if inhaled.

Simple Asphyxiant      May displace oxygen and cause rapid suffocation.

**Label elements:****Hazard pictograms:****Signal word:** Warning**Hazard-determining components of labeling:**

Carbon Monoxide

**Hazard statements:**

H280 Contains gas under pressure; may explode if heated.

H332 Harmful if inhaled.

May displace oxygen and cause rapid suffocation.

**Precautionary statements:**

P261      Avoid breathing dust/fume/gas/mist/vapors/spray.

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P271 Use only outdoors or in a well-ventilated area.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a poison center/doctor if you feel unwell.

P410+P403 Protect from sunlight. Store in a well-ventilated place.

· **Unknown acute toxicity:**

This value refers to knowledge of known, established toxicological or ecotoxicological values.

99.8 % of the mixture consists of component(s) of unknown toxicity.

· **Classification system:** NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme

· **NFPA ratings (scale 0 - 4)**



· **HMIS-ratings (scale 0 - 4)**

HEALTH	2	Health = 2
FIRE	0	Fire = 0
REACTIVITY	0	Physical Hazard = 0

· **Hazard(s) not otherwise classified (HNOC):** None known

### 3 Composition/Information on Ingredients

· **Chemical characterization: Mixtures**

· **Description:** Mixture of substances listed below with non-hazardous additions.

· **Dangerous Components:**

CAS: 7727-37-9 RTECS: QW 9700000	Nitrogen ⚠ Press. Gas, H280; Simple Asphyxiant	78.938-87.9943%
CAS: 7782-44-7	Oxygen ⚠ Oxid. Gas 1, H270; ⚠ Press. Gas, H280	12-20.9%
CAS: 630-08-0 RTECS: FG 3500000	Carbon Monoxide ⚠ Flam. Gas 1, H220; ⚠ Press. Gas, H280; ⚠ Acute Tox. 3, H331; ⚠ Repr. 1A, H360; STOT RE 1, H372	0.005-0.15%
	Hydrogen Sulfide ⚠ Flam. Gas 1, H220; ⚠ Press. Gas, H280; ⚠ Acute Tox. 2, H330; ⚠ Aquatic Acute 1, H400	0.0005-0.01%
CAS: 7446-09-5	Sulfur Dioxide ⚠ Press. Gas, H280; ⚠ Acute Tox. 3, H331; ⚠ Skin Corr. 1B, H314	0.0002-0.002%

· **Additional information:**

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

### 4 First-Aid Measures

· **Description of first aid measures**

· **After inhalation:**

Supply fresh air. If required, provide artificial respiration. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in the side position for transportation.

· **After skin contact:**

Generally, the product does not irritate the skin.

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In cases of contact with liquified material, frostbite may occur. Immerse frostbite in cool-warm water and seek medical attention.

· **After eye contact:**

Not anticipated under normal use.

If irritation occurs thoroughly wash the exposed area and discontinue use. Seek medical attention if any adverse effect occurs.

· **After swallowing:** Not a normal route of entry.

· **Information for doctor**

· **Most important symptoms and effects, both acute and delayed:** No further relevant information available.

· **Indication of any immediate medical attention and special treatment needed:**

No further relevant information available.

### 5 Fire-Fighting Measures

· **Extinguishing media**

· **Suitable extinguishing agents:**

Use fire fighting measures that suit the environment.

Use water spray to cool fire-exposed containers.

· **For safety reasons unsuitable extinguishing agents:** No further relevant information.

· **Special hazards arising from the substance or mixture:**

Closed containers may explode when exposed to extreme heat.

If incinerated, product will release the following toxic fumes: Oxides of Carbon, Nitrogen (NOx) and Sulfur.

· **Advice for firefighters**

This gas mixture is not flammable; however, containers, when involved in fire, may rupture or burst in the heat of the fire. Firefighters should be aware of the presence of Hydrogen Sulfide in this gas mixture, which can cause significant health effects.

· **Special protective equipment for firefighters:**

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

### 6 Accidental Release Measures

· **Personal precautions, protective equipment and emergency procedures:**

Treat any fumes as toxic.

In a confined area, NIOSH approved respiratory protection may be required.

· **Environmental precautions:** Inform authorities in case of gas release.

· **Methods and material for containment and cleaning up:**

Dispose of the collected material according to regulations.

Ensure adequate ventilation.

Dispose of contaminated material as waste according to section 13.

· **Reference to other sections:**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

· **Protective Action Criteria for Chemicals**

· **PAC-1:**

7727-37-9	Nitrogen	7.96E+05 ppm
630-08-0	Carbon Monoxide	75 ppm
7783-06-4	Hydrogen Sulfide	0.51 ppm
7446-09-5	Sulfur Dioxide	0.20 ppm

· **PAC-2:**

7727-37-9	Nitrogen	8.32E+05 ppm
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630-08-0	Carbon Monoxide	83 ppm
7783-06-4	Hydrogen Sulfide	27 ppm
7446-09-5	Sulfur Dioxide	0.75 ppm
<b>· PAC-3:</b>		
7727-37-9	Nitrogen	8.69E+05 ppm
630-08-0	Carbon Monoxide	330 ppm
7783-06-4	Hydrogen Sulfide	50 ppm
7446-09-5	Sulfur Dioxide	30 ppm

## 7 Handling and Storage

### · Handling

#### · Precautions for safe handling:

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Be aware of any signs of dizziness or fatigue; exposures to fatal concentrations of this gas mixture could occur without any significant warning symptoms due to the potential for oxygen deficiency (simple asphyxiation). Do not attempt to adjust, repair or in any other way modify the cylinders containing this gas mixture. If there is a malfunction or another type of operational problem, contact nearest distributor immediately.

#### · Information about protection against explosions and fires:

Do not spray on a naked flame or any incandescent material.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

Do not cut, grind or weld on container that contains or contained product.

Keep protective respiratory device available.

#### · Conditions for safe storage, including any incompatibilities

Store away from strong oxidizing agents, strong bases, phosphorous, organic materials and powdered metals.

#### · Storage

#### · Requirements to be met by storerooms and receptacles:

Store in a cool location.

Cylinders should be firmly secured to prevent falling or being knocked over. Cylinders must be protected from the environment, and preferably kept at room temperature. Cylinders should be stored in dry, well-ventilated areas, away from sources of heat, ignition, and direct sunlight. Protect cylinders against physical damage. Full and empty cylinders should be segregated. Use a "first-in, first-out" inventory system to prevent full containers from being stored for long periods of time.

#### · Information about storage in one common storage facility: Not required.

#### · Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.

#### · Specific end use(s): No further relevant information available.

## 8 Exposure Controls/Personal Protection

#### · Additional information about design of technical systems: No further data; see section 7.

#### · Control parameters:

All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94). Use mechanical (general) ventilation for storage areas. Use appropriate ventilation as required to keep Exposure Limits in Air below TLV & PEL limits.

#### · Components with occupational exposure limits:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

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<b>7727-37-9 Nitrogen</b>	
TLV	withdrawn TLV, see App. F; simple asphyxiant
<b>630-08-0 Carbon Monoxide</b>	
PEL	Long-term value: 55 mg/m <sup>3</sup> , 50 ppm
REL	Long-term value: 40 mg/m <sup>3</sup> , 35 ppm Ceiling limit value: 229 mg/m <sup>3</sup> , 200 ppm
TLV	Long-term value: 29 mg/m <sup>3</sup> , 25 ppm BEI
· <b>Ingredients with biological limit values:</b>	
<b>630-08-0 Carbon Monoxide</b>	
BEI	3.5 % of hemoglobin blood end of shift Carboxyhemoglobin (background, nonspecific)
	20 ppm end-exhaled air end of shift Carbon monoxide (background, nonspecific)

· **Additional information:** The lists that were valid during the creation of this SDS were used as basis.

· **Exposure controls:**

· **Personal protective equipment**

· **General protective and hygienic measures:** Wash hands before breaks and at the end of work.

· **Breathing equipment:**



Suitable respiratory protective device recommended.

· **Protection of hands:** Not required.

· **Material of gloves:** Not applicable.

· **Penetration time of glove material:** Not applicable.

· **Eye protection:** Not required.

## 9 Physical and Chemical Properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

**Form:** Compressed gas

**Color:** Clear, colorless

· **Odor:** Rotten

· **Odor threshold:** Not determined.

· **pH-value:** Not available

· **Change in condition**

**Melting point/Melting range:** Not determined.

**Boiling point/Boiling range:** Not determined.

· **Flash point:** None

· **Flammability (solid, gaseous):** Not determined.

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- **Ignition temperature:** Not applicable
- **Decomposition temperature:** Not determined.
- **Auto igniting:** Product is not self-igniting.
- **Danger of explosion:** Not determined.
- **Explosion limits:**
  - Lower:** Not determined.
  - Upper:** Not determined.
- **Vapor pressure:** Not determined.
- **Density:**
  - Relative density:** Not determined.
  - Vapor density:** Not determined.
  - Evaporation rate:** Not applicable.
- **Solubility in / Miscibility with:**
  - Water:** Not miscible or difficult to mix.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
  - Dynamic:** Not determined.
  - Kinematic:** Not determined.
- **Solvent content:**
  - VOC content:** 0.00 %
  - Solids content:** 0.0 %
- **Other information:** No further relevant information available.

### 10 Stability and Reactivity

- **Reactivity:** No further relevant information available.
- **Chemical stability:** Stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** No further relevant information available.
- **Incompatible materials:** Strong oxidizing agents, strong bases, phosphorous, organic materials and powdered metals.
- **Hazardous decomposition products:** Oxides of Carbon, Nitrogen (NOx) and Sulfur.

### 11 Toxicological Information

- **Information on toxicological effects:**
- **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

**630-08-0 Carbon Monoxide**

Inhalative	LC50/4 h	7,520 mg/l (Rat)
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- **Primary irritant effect:**
- **On the skin:** No irritating effect.
- **On the eye:** No irritating effect.
- **Additional toxicological information:** Harmful

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### Trade Name: Precision Calibration Gas Mixture

- **Carcinogenic categories:**
- **IARC (International Agency for Research on Cancer):**
  - Group 1 - Carcinogenic to humans
  - Group 2A - Probably carcinogenic to humans
  - Group 2B - Possibly carcinogenic to humans
  - Group 3 - Not classifiable as to its carcinogenicity to humans
  - Group 4 - Probably not carcinogenic to humans

7446-09-5	Sulfur Dioxide	3
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- **NTP (National Toxicology Program):**

None of the ingredients are listed.

- **OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

### 12 Ecological Information

- **Toxicity:**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability:** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential:** No further relevant information available.
- **Mobility in soil:** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Generally not hazardous for water.
- **Results of PBT and vPvB assessment:**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects:** No further relevant information available.

### \* 13 Disposal Considerations

- **Waste treatment methods**
- **Recommendation:**  
Release all residual gas pressure in a well ventilated area. Verify the cylinder is completely empty (0 PSIG). Remove or cover any hazard labels. Return empty supplier for recycling.  
NOTE: Check with the local waste authority before placing any gas cylinder into a waste container for pickup. GASCO encourages the consumer to return all cylinders.
- **Waste disposal key:** The U.S. EPA has not published waste numbers for this product's components.
- **Uncleaned packaging**
- **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport Information

- **UN-Number:** UN1956
- **DOT, ADR/ADN, IMDG, IATA**
- **UN proper shipping name:** Compressed gas, n.o.s. (Nitrogen, Oxygen)
- **DOT** UN1956 COMPRESSED GAS, N.O.S. (NITROGEN, OXYGEN)
- **ADR/ADN** UN1956 COMPRESSED GAS, N.O.S. (NITROGEN, OXYGEN)
- **IMDG, IATA** COMPRESSED GAS, N.O.S. (NITROGEN, OXYGEN)

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**Trade Name: Precision Calibration Gas Mixture**· **Transport hazard class(es):**· **DOT**

· **Class:** 2 Gases  
 · **Label:** 2.2

· **ADR/ADN**

· **Class:** 2 1A Gases  
 · **Label:** 2.2

· **IMDG, IATA**

· **Class:** 2 Gases  
 · **Label:** 2.2  
 · **Packing group:** -  
 · **DOT, ADR/ADN, IMDG, IATA** Non-Regulated Material  
 · **Environmental hazards:** Not applicable.  
 · **Special precautions for user:** Warning: Gases  
 · **Hazard identification number (Kemler code):** 20  
 · **EMS Number:** F-C,S-V  
 · **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable.  
 · **Transport/Additional information:**  
 · **DOT**  
 · **Quantity limitations:** On passenger aircraft/rail: 75 kg  
 On cargo aircraft only: 150 kg

· **ADR/ADN**

· **Excepted quantities (EQ):** Code: E1  
 Maximum net quantity per inner packaging: 30 ml  
 Maximum net quantity per outer packaging: 1000 ml

· **IMDG**

· **Limited quantities (LQ):** 120 ml  
 · **Excepted quantities (EQ):** Code: E1  
 Maximum net quantity per inner packaging: 30 ml  
 Maximum net quantity per outer packaging: 1000 ml  
 · **UN "Model Regulation":** UN 1956 COMPRESSED GAS, N.O.S. (NITROGEN, OXYGEN), 2.2

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**Trade Name: Precision Calibration Gas Mixture**

### 15 Regulatory Information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture:**
- **SARA (Superfund Amendments and Reauthorization):**

- **Section 355 (extremely hazardous substances):**

7783-06-4	Hydrogen Sulfide
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7446-09-5	Sulfur Dioxide
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- **Section 313 (Specific toxic chemical listings):**

7783-06-4	Hydrogen Sulfide
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- **TSCA (Toxic Substances Control Act):**

7727-37-9	Nitrogen
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7782-44-7	Oxygen
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630-08-0	Carbon Monoxide
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7783-06-4	Hydrogen Sulfide
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7446-09-5	Sulfur Dioxide
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- **California Proposition 65:**

- **Chemicals known to cause cancer:**

None of the ingredients are listed.

- **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

- **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

- **Chemicals known to cause developmental toxicity:**

630-08-0	Carbon Monoxide
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- **New Jersey Right-to-Know List:**

All ingredients are listed.

- **New Jersey Special Hazardous Substance List:**

630-08-0	Carbon Monoxide	TE, F4
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7783-06-4	Hydrogen Sulfide	F4
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- **Pennsylvania Right-to-Know List:**

All ingredients are listed.

- **Pennsylvania Special Hazardous Substance List:**

630-08-0	Carbon Monoxide	E
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7783-06-4	Hydrogen Sulfide	E
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7446-09-5	Sulfur Dioxide	E
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- **Carcinogenic categories:**

- **EPA (Environmental Protection Agency):**

7783-06-4	Hydrogen Sulfide	I
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- **TLV (Threshold Limit Value established by ACGIH):**

7446-09-5	Sulfur Dioxide	A4
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- **NIOSH-Ca (National Institute for Occupational Safety and Health):**

None of the ingredients are listed.

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### Trade Name: Precision Calibration Gas Mixture

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms:**



- **Signal word:** Warning

- **Hazard-determining components of labeling:**

Carbon Monoxide

- **Hazard statements:**

H280 Contains gas under pressure; may explode if heated.

H332 Harmful if inhaled.

May displace oxygen and cause rapid suffocation.

- **Precautionary statements:**

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P271 Use only outdoors or in a well-ventilated area.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a poison center/doctor if you feel unwell.

P410+P403 Protect from sunlight. Store in a well-ventilated place.

- **National regulations:**

None of the ingredients are listed.

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### \* 16 Other Information

- **Relevant phrases:**

Gasco Affiliates, LLC makes no express or implied warranties, guarantees or representations regarding the product or the information herein, including but not limited to any implied warranty or merchantability or fitness for use. Gasco Affiliates, LLC shall not be liable for any personal injury, property or other damages of any nature, whether compensatory, consequential, exemplary, or otherwise, resulting from any publication, use or reliance upon the information herein.

- **Date of last revision/ revision number:** 07/18/2020 / -

- **Abbreviations and acronyms:**

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety and Health

OSHA: Occupational Safety & Health Administration

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flam. Gas 1: Flammable gases – Category 1

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Oxid. Gas 1: Oxidizing gases – Category 1

Press. Gas: Gases under pressure – Compressed gas

Press. Gas: Gases under pressure – Dissolved gas

Acute Tox. 2: Acute toxicity – Category 2

Acute Tox. 3: Acute toxicity – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Repr. 1A: Reproductive toxicity – Category 1A

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

**\* Data compared to the previous version altered.**

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