

Safety Data Sheet (SDS)

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

Issue date 06/23/2020

Reviewed on 06/23/2020

* 1 Identification

· **Product Identifier**

· **Trade Name: Precision Calibration Gas Mixture**

· **Product Number:** G-16015

· **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 Methyl Bromide and Nitrogen.

· **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.



Skull and crossbones

Acute Tox. 3 H301 Toxic if swallowed.

Acute Tox. 3 H331 Toxic if inhaled.



Health hazard

Muta. 2 H341 Suspected of causing genetic defects.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



Eye Irrit. 2A H319 Causes serious eye irritation.

Ozone 1 H420 Harms public health and the environment by destroying ozone in the upper atmosphere

Simple Asphyxiant May displace oxygen and cause rapid suffocation.

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Trade Name: Precision Calibration Gas Mixture

- **Label elements:**
- **Hazard pictograms:**



- **Signal word:** Danger

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

Methyl Bromide

- **Hazard statements:**

H280 Contains gas under pressure; may explode if heated.
 H301+H331 Toxic if swallowed or if inhaled.
 H319 Causes serious eye irritation.
 H341 Suspected of causing genetic defects.
 H373 May cause damage to organs through prolonged or repeated exposure.
 H420 Harms public health and the environment by destroying ozone in the upper atmosphere
 May displace oxygen and cause rapid suffocation.

- **Precautionary statements:**

P201 Obtain special instructions before use.
 P202 Do not handle until all safety precautions have been read and understood.
 P260 Do not breathe dust/fume/gas/mist/vapors/spray.
 P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
 P264 Wash thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P271 Use only outdoors or in a well-ventilated area.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P301+P310 If swallowed: Immediately call a poison center/doctor.
 P321 Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).
 P330 Rinse mouth.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P311 Call a poison center/doctor.
 P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P308+P313 IF exposed or concerned: Get medical advice/attention.
 P314 Get medical advice/attention if you feel unwell.
 P337+P313 If eye irritation persists: Get medical advice/attention.
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.
 P405 Store locked up.
 P410+P403 Protect from sunlight. Store in a well-ventilated place.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
 P502 Refer to manufacturer/supplier for information on recovery/recycling

- **Unknown acute toxicity:**

98.5 % of the mixture consists of component(s) of unknown toxicity.

- **Classification system:**

- **NFPA ratings (scale 0 - 4)**



Health = 2

Fire = 0

Reactivity = 0

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· 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: 74-83-9 RTECS: PA 4900000	Methyl Bromide ⚠ Press. Gas, H280; ⚠ Acute Tox. 3, H301; Acute Tox. 3, H331; ⚠ Muta. 2, H341; STOT RE 2, H373; ⚠ Aquatic Acute 1, H400; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335; Ozone 1, H420	0.0005-1.5%
CAS: 7727-37-9 RTECS: QW 9700000	Nitrogen ⚠ Press. Gas, H280; Simple Asphyxiant	98.5-99.9995%

4 First-Aid Measures

· Description of first aid measures

· General information:

Symptoms may even occur after several hours; therefore observe area effected for at least 48 hours after the accident.

· After inhalation:

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient stably in the side position for transportation.

· After skin contact:

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

Immediately wash with water and soap and rinse thoroughly.

If skin irritation occurs, consult a doctor.

· After eye contact:

Not anticipated under normal use.

Rinse opened eye for at least 15 minutes under running water. If symptoms persist, consult a doctor.

· After swallowing:

Not a normal route of entry.

Do not induce vomiting; immediately call for medical help.

· 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.

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· **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 and Nitrogen (NO_x), and Hydrobromic acid gas.

· **Advice for firefighters**

This gas mixture is flammable, and, containers, when involved in fire, may rupture or burst in the heat of the fire.

· **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.

Keep away from ignition sources

Ensure adequate ventilation.

Keep people at a distance and stay upwind.

Wear protective equipment. Keep unprotected persons away.

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 contaminated material as waste according to section 13.

Ensure adequate ventilation.

Dispose of the collected material according to regulations.

· **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.

7 Handling and Storage

· **Handling**

· **Precautions for safe handling:**

Ensure good ventilation/exhaustion at the workplace.

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:**

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.

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

Keep ignition sources away - Do not smoke.

Protect from heat.

Protect against electrostatic charges.

Keep protective respiratory device available.

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

Store away from strong oxidizing agents, metals and combustible materials.

· **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

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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-on, 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:	
7727-37-9 Nitrogen	
TLV	withdrawn TLV, see App. F; simple asphyxiant
74-83-9 Methyl Bromide	
PEL	Ceiling limit value: 80 mg/m ³ , 20 ppm Skin
REL	See Pocket Guide App. A
TLV	Long-term value: 3.9 mg/m ³ , 1 ppm Skin

- **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:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing and wash before reuse.
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Avoid contact with the eyes and skin.
- **Breathing equipment:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure, use respiratory protective device that is independent of circulating air.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

- **Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

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- **Penetration time of glove material:**

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

- **Eye protection:**

Not necessary under normal conditions.



Tightly sealed goggles

9 Physical and Chemical Properties

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

- **General Information**

- **Appearance:**

Form:

Gaseous

Color:

Clear, colorless

- **Odor:**

Odorless

- **Odor threshold:**

Not determined.

- **pH-value:**

Not determined.

- **Change in condition**

Melting point/Melting range:

Not determined.

Boiling point/Boiling range:

Not determined.

- **Flash point:**

None

- **Flammability (solid, gaseous):**

Not determined.

- **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.

- **Other information:**

No further relevant information available.

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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, metals and combustible materials.
- **Hazardous decomposition products:** Carbon Oxides, Nitrogen Oxides (NOx) and Hydrobromic acid gas.

11 Toxicological Information

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

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

74-83-9 Methyl Bromide

Oral	LD50	214 mg/kg (Rat)
Inhalative	LC50/4 h	302 mg/l (Rat)

- **Primary irritant effect:**
- **On the skin:** No irritating effect.
- **On the eye:** Irritating effect.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Toxic
Irritant
- **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

74-83-9	Methyl Bromide	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:**
Do not allow product to reach ground water, water course or sewage system.

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Danger to drinking water if even small quantities leak into the ground.

· **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:**

Observe all federal, state and local environmental regulations when disposing of this material. 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 cylinder for recycling.

NOTE: Check with the local waste authority before placing any gas cylinder into waste container for pickup.

GASCO encourages the consumer to return all cylinders.

- **Waste disposal key:** The U.S. EPA has not published waste disposal numbers for this product's components.

· **Uncleaned packaging**

- **Recommendation:** Return cylinder and unused product to supplier.

14 Transport Information

· **UN-Number:**

· **DOT, ADR/ADN, IMDG, IATA**

UN1955

· **UN proper shipping name:**

· **DOT, IATA**

Compressed gas, toxic, n.o.s.

· **ADR/ADN**

UN1955 Compressed gas, toxic, n.o.s.

· **IMDG**

COMPRESSED GAS, TOXIC, N.O.S.

· **Transport hazard class(es):**

· **DOT**



· **Class:**

2 Gases

· **Label:**

2.1/2.3

· **ADR/ADN**



· **Class:**

2 1T Gases

· **Label:**

2.1, 2.3

· **IMDG**



· **Class:**

2 Gases

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Trade Name: Precision Calibration Gas Mixture· **Label:** 2.1,2.3· **IATA**

· **Class:** 2 Gases
 · **Label:** 2.1 (2.3)
 · **Packing group:**
 · **DOT, ADR/ADN, IMDG** Non-Regulated Material
 · **Environmental hazards:** Not applicable.
 · **Special precautions for user:** Warning: Gases
 · **Hazard identification number (Kemler code):** 26
 · **EMS Number:** F-C,S-U
 · **Stowage Category** D
 · **Stowage Code** SW2 Clear of living quarters.
 · **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: Forbidden
 On cargo aircraft only: Forbidden

· **ADR/ADN**
 · **Excepted quantities (EQ):** Code: E0
 Not permitted as Excepted Quantity

· **IMDG**
 · **Limited quantities (LQ):** 0
 · **Excepted quantities (EQ):** Code: E0
 Not permitted as Excepted Quantity
 · **UN "Model Regulation":** UN 1955 COMPRESSED GAS, TOXIC, N.O.S., 2.1,2.3

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):**

74-83-9 Methyl Bromide

· **Section 313 (Specific toxic chemical listings):**

74-83-9 Methyl Bromide

· **TSCA (Toxic Substances Control Act):**

7727-37-9 Nitrogen

74-83-9 Methyl Bromide

· **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.

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Trade Name: Precision Calibration Gas Mixture

· Chemicals known to cause reproductive toxicity for males:		
None of the ingredients are listed.		
· Chemicals known to cause developmental toxicity:		
74-83-9	Methyl Bromide	
· Carcinogenic categories:		
· EPA (Environmental Protection Agency):		
74-83-9	Methyl Bromide	D
· TLV (Threshold Limit Value established by ACGIH):		
74-83-9	Methyl Bromide	A4
· NIOSH-Ca (National Institute for Occupational Safety and Health):		
74-83-9	Methyl Bromide	

· **GHS label elements**

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

· **Hazard pictograms:**



· **Signal word:** Danger

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

Methyl Bromide

· **Hazard statements:**

- H280 Contains gas under pressure; may explode if heated.
 - H301+H331 Toxic if swallowed or if inhaled.
 - H319 Causes serious eye irritation.
 - H341 Suspected of causing genetic defects.
 - H373 May cause damage to organs through prolonged or repeated exposure.
 - H420 Harms public health and the environment by destroying ozone in the upper atmosphere
- May displace oxygen and cause rapid suffocation.

· **Precautionary statements:**

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P260 Do not breathe dust/fume/gas/mist/vapors/spray.
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
- P264 Wash thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P310 If swallowed: Immediately call a poison center/doctor.
- P321 Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).
- P330 Rinse mouth.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P311 Call a poison center/doctor.
- P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P314 Get medical advice/attention if you feel unwell.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.

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P405	Store locked up.
P410+P403	Protect from sunlight. Store in a well-ventilated place.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
P502	Refer to manufacturer/supplier for information on recovery/recycling

· **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:**

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· **Date of last revision/ revision number:** 06/23/2020 / -

· **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)
 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
 Press. Gas: Gases under pressure – Compressed gas
 Press. Gas: Gases under pressure – Dissolved gas
 Acute Tox. 3: Acute toxicity – Category 3
 Skin Irrit. 2: Skin corrosion/irritation – Category 2
 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
 Muta. 2: Germ cell mutagenicity – Category 2
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
 Ozone 1: Hazardous to the ozone layer – Category 1

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

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