

Safety Data Sheet (SDS)

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

Issue date 07/03/2020

Reviewed on 07/03/2020

* 1 Identification

· **Product Identifier**

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

· **Product Number:** G-33516

· **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 Benzene, Toluene, Ethylbenzene, m-Xylene, o-Xylene, Oxygen 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.

· **Label elements:**

· **Hazard pictograms:**



· **Signal word:** Warning

· **Hazard statements:**

H280 Contains gas under pressure; may explode if heated.

· **Precautionary statements:**

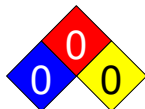
P410+P403 Protect from sunlight. Store in a well-ventilated place.

· **Unknown acute toxicity:**

100 % of the mixture consists of component(s) of unknown toxicity.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



Health = 0

Fire = 0

Reactivity = 0

(Contd. on page 2)

Safety Data Sheet (SDS)

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

Issue date 07/03/2020

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Trade Name: Precision Calibration Gas Mixture

· HMIS-ratings (scale 0 - 4)

HEALTH	0	Health = 0
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	78.993-80.99955%
CAS: 7782-44-7	Oxygen ⚠ Oxid. Gas 1, H270; ⚠ Press. Gas, H280	19-21%
CAS: 71-43-2 RTECS: CY 1400000	Benzene ⚠ Flam. Liq. 2, H225; ⚠ Muta. 1B, H340; Carc. 1A, H350; STOT RE 1, H372; Asp. Tox. 1, H304; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319	0.00005-0.0005%
CAS: 108-88-3 RTECS: XS 5250000	Toluene ⚠ Flam. Liq. 2, H225; ⚠ Repr. 2, H361; STOT RE 2, H373; Asp. Tox. 1, H304; ⚠ Acute Tox. 4, H332; Skin Irrit. 2, H315; STOT SE 3, H336	0.0001-0.0015%
CAS: 108-38-3 RTECS: ZE 2275000	m-xylene ⚠ Flam. Liq. 3, H226; ⚠ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	0.0001-0.002%
CAS: 95-47-6 RTECS: ZE 2450000	o-xylene ⚠ Flam. Liq. 3, H226; ⚠ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	0.0001-0.002%
CAS: 100-41-4 RTECS: DA 0700000	Ethylbenzene ⚠ Flam. Liq. 2, H225; ⚠ Carc. 2, H351; STOT RE 2, H373; Asp. Tox. 1, H304; ⚠ Acute Tox. 4, H332	0.0001-0.001%

4 First-Aid Measures

· Description of first aid measures

· After inhalation:

Generally the product does not irritate with 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.

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

Wash with soap and water.

If skin irritation occurs, consult a doctor.

· After eye contact:

Not anticipated under normal use.

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

· After swallowing:

Not a normal route of entry.

(Contd. on page 3)

Safety Data Sheet (SDS)

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

Issue date 07/03/2020

Reviewed on 07/03/2020

Trade Name: Precision Calibration Gas Mixture

If swallowed and symptoms occur, consult a doctor.

- **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 and Nitrogen (NOx).
- **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.
- **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.
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.
- **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.
- **Conditions for safe storage, including any incompatibilities**
Store away from strong oxidizing agents, strong reducing agents, strong acids and strong bases.

(Contd. on page 4)

Safety Data Sheet (SDS)

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

Issue date 07/03/2020

Reviewed on 07/03/2020

Trade Name: Precision Calibration Gas Mixture

- **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-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:**

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

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

7727-37-9 Nitrogen	
TLV	withdrawn TLV, see App. F; simple asphyxiant
71-43-2 Benzene	
PEL	Short-term value: 15* mg/m ³ , 5* ppm Long-term value: 3* mg/m ³ , 1* ppm *table Z-2 for exclusions in 29CFR1910.1028(d)
REL	Short-term value: 1 ppm Long-term value: 0.1 ppm See Pocket Guide App. A
TLV	Short-term value: 8 mg/m ³ , 2.5 ppm Long-term value: 1.6 mg/m ³ , 0.5 ppm Skin; BEI
108-88-3 Toluene	
PEL	Long-term value: 200 ppm Ceiling limit value: 300; 500* ppm *10-min peak per 8-hr shift
REL	Short-term value: 560 mg/m ³ , 150 ppm Long-term value: 375 mg/m ³ , 100 ppm
TLV	Long-term value: 75 mg/m ³ , 20 ppm BEI
100-41-4 Ethylbenzene	
PEL	Long-term value: 435 mg/m ³ , 100 ppm
REL	Short-term value: 545 mg/m ³ , 125 ppm Long-term value: 435 mg/m ³ , 100 ppm
TLV	Long-term value: 87 mg/m ³ , 20 ppm BEI

(Contd. on page 5)

Safety Data Sheet (SDS)

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

Issue date 07/03/2020

Reviewed on 07/03/2020

Trade Name: Precision Calibration Gas Mixture

95-47-6 o-xylene	
PEL	Long-term value: 435 mg/m ³ , 100 ppm
REL	Short-term value: 655 mg/m ³ , 150 ppm Long-term value: 435 mg/m ³ , 100 ppm
TLV	Short-term value: 651 mg/m ³ , 150 ppm Long-term value: 434 mg/m ³ , 100 ppm BEI
108-38-3 m-xylene	
PEL	Long-term value: 435 mg/m ³ , 100 ppm
REL	Short-term value: 655 mg/m ³ , 150 ppm Long-term value: 435 mg/m ³ , 100 ppm
TLV	Short-term value: 651 mg/m ³ , 150 ppm Long-term value: 434 mg/m ³ , 100 ppm BEI

- **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.
Avoid contact with the eyes and skin.
Keep away from foodstuffs, beverages and feed.
- **Breathing equipment:** Use suitable respiratory protective device in case of insufficient ventilation.
- **Protection of hands:** Not required.
- **Material of gloves:** Not required.
- **Penetration time of glove material:** Not applicable.
- **Eye protection:** Not necessary under normal conditions.
- **Body protection:** Not required.

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 applicable.
- **Change in condition**
 - **Melting point/Melting range:** Not determined.
 - **Boiling point/Boiling range:** Not determined.
- **Flash point:** None
- **Flammability (solid, gaseous):** Product is not flammable.
- **Ignition temperature:** Not applicable
- **Decomposition temperature:** Not determined.
- **Auto igniting:** Product is not self-igniting.

(Contd. on page 6)

Safety Data Sheet (SDS)

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

Issue date 07/03/2020

Reviewed on 07/03/2020

Trade Name: Precision Calibration Gas Mixture

- **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.

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 acids, strong bases, strong oxidizing agents and strong reducing agents.
- **Hazardous decomposition products:** Oxides of Carbon and Nitrogen (NOx).

11 Toxicological Information

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

LD/LC50 values that are relevant for classification:

71-43-2 Benzene

Oral	LD50	2990 mg/kg (Rat)
Dermal	LD50	8263 mg/kg (Rabbit)
Inhalative	LC50/4 h	44.7 mg/l (Rat)

108-88-3 Toluene

Oral	LD50	5000 mg/kg (Rat)
Dermal	LD50	12124 mg/kg (Rabbit)
Inhalative	LC50/4 h	12.5-28.8 mg/l (Rat)

100-41-4 Ethylbenzene

Oral	LD50	3500 mg/kg (Rat)
Dermal	LD50	15433 mg/kg (Rabbit)

108-38-3 m-xylene

Oral	LD50	5000 mg/kg (Rat)
Dermal	LD50	14100 mg/kg (Rabbit)

(Contd. on page 7)

Safety Data Sheet (SDS)

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

Issue date 07/03/2020

Reviewed on 07/03/2020

Trade Name: Precision Calibration Gas Mixture

- **Primary irritant effect:**
- **On the skin:** No irritating effect.
- **On the eye:** No irritating effect.
- **Additional toxicological information:**
- **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

108-38-3	m-xylene	3
106-42-3	p-xylene	3
95-47-6	o-xylene	3
108-88-3	Toluene	3
100-41-4	Ethylbenzene	2B
71-43-2	Benzene	1

- **NTP (National Toxicology Program):**

71-43-2	Benzene	K
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- **OSHA-Ca (Occupational Safety & Health Administration):**

71-43-2	Benzene	
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12 Ecological Information

- **Toxicity:**

· Aquatic toxicity:	
71-43-2 Benzene	
EC50	29.00 mg/l (Green algae) 22.00 mg/l (Water flea)
108-88-3 Toluene	
EC50	10 mg/l (Green algae) 8.0 mg/l (Water flea)
100-41-4 Ethylbenzene	
EC50	4.9 mg/l (Green algae) 1.8-2.4 mg/l (Water flea)

- **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 undiluted product or product that has not been neutralized to reach ground water, water course or sewage system.

- **Results of PBT and vPvB assessment:**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **Other adverse effects:** No further relevant information available.

(Contd. on page 8)

Safety Data Sheet (SDS)

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

Issue date 07/03/2020

Reviewed on 07/03/2020

Trade Name: Precision Calibration Gas Mixture

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 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** UN1956
- **UN proper shipping name:**
- **DOT** Compressed gas, n.o.s.
- **ADR/ADN** UN1956 Compressed gas, n.o.s.
- **IMDG, IATA** COMPRESSED GAS, N.O.S.
- **Transport hazard class(es):**

- **DOT**



- **Class:** 2.2
- **Label:** 2.2

- **ADR/ADN**



- **Class:** 2.2 1A
- **Label:** 2.2

- **IMDG, IATA**



- **Class:** 2.2
- **Label:** 2.2
- **Packing group:**
- **DOT, ADR/ADN, IMDG, IATA** Non-Regulated Material
- **Environmental hazards:** Not applicable.
- **Special precautions for user:** Not applicable.
- **Hazard identification number (Kemler code):** 20
- **EMS Number:** F-C,S-V

(Contd. on page 9)

Safety Data Sheet (SDS)

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

Issue date 07/03/2020

Reviewed on 07/03/2020

Trade Name: Precision Calibration Gas Mixture

· Stowage Category	A
· 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., 2.2

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):
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None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):
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108-38-3	m-xylene
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106-42-3	p-xylene
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95-47-6	o-xylene
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108-88-3	Toluene
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100-41-4	Ethylbenzene
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71-43-2	Benzene
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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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108-38-3	m-xylene
----------	----------

106-42-3	p-xylene
----------	----------

95-47-6	o-xylene
---------	----------

108-88-3	Toluene
----------	---------

100-41-4	Ethylbenzene
----------	--------------

71-43-2	Benzene
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· California Proposition 65:

· Chemicals known to cause cancer:

100-41-4	Ethylbenzene
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71-43-2	Benzene
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(Contd. on page 10)

Safety Data Sheet (SDS)

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

Issue date 07/03/2020

Reviewed on 07/03/2020

Trade Name: Precision Calibration Gas Mixture

· Chemicals known to cause reproductive toxicity for females:		
None of the ingredients are listed.		
· Chemicals known to cause reproductive toxicity for males:		
71-43-2	Benzene	
· Chemicals known to cause developmental toxicity:		
None of the ingredients are listed.		
· New Jersey Right-to-Know List:		
All ingredients are listed.		
· New Jersey Special Hazardous Substance List:		
108-38-3	m-xylene	F3
106-42-3	p-xylene	F3
95-47-6	o-xylene	F3
108-88-3	Toluene	TE, F3
100-41-4	Ethylbenzene	CA, F3
71-43-2	Benzene	CA, MU, F3
· Pennsylvania Right-to-Know List:		
All ingredients are listed.		
· Pennsylvania Special Hazardous Substance List:		
108-38-3	m-xylene	E
106-42-3	p-xylene	E
95-47-6	o-xylene	E
108-88-3	Toluene	E
100-41-4	Ethylbenzene	E
71-43-2	Benzene	ES
· Carcinogenic categories:		
· EPA (Environmental Protection Agency):		
108-38-3	m-xylene	I
106-42-3	p-xylene	I
95-47-6	o-xylene	I
108-88-3	Toluene	II
100-41-4	Ethylbenzene	D
71-43-2	Benzene	A, K/L
· TLV (Threshold Limit Value established by ACGIH):		
108-38-3	m-xylene	A4
106-42-3	p-xylene	A4
95-47-6	o-xylene	A4
108-88-3	Toluene	A4
100-41-4	Ethylbenzene	A3
71-43-2	Benzene	A1
· NIOSH-Ca (National Institute for Occupational Safety and Health):		
71-43-2	Benzene	

(Contd. on page 11)

Safety Data Sheet (SDS)

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

Issue date 07/03/2020

Reviewed on 07/03/2020

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 statements:**

H280 Contains gas under pressure; may explode if heated.

- **Precautionary statements:**

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:**

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- **Date of last revision/ revision number:** 07/03/2020 / -

- **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
 Oxid. Gas 1: Oxidizing gases – Category 1
 Press. Gas: Gases under pressure – Compressed gas
 Press. Gas: Gases under pressure – Dissolved gas
 Flam. Liq. 2: Flammable liquids – Category 2
 Flam. Liq. 3: Flammable liquids – Category 3
 Acute Tox. 4: Acute toxicity – Category 4
 Skin Irrit. 2: Skin corrosion/irritation – Category 2
 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
 Muta. 1B: Germ cell mutagenicity – Category 1B
 Carc. 1A: Carcinogenicity – Category 1A
 Carc. 2: Carcinogenicity – Category 2
 Repr. 2: Reproductive toxicity – Category 2
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

(Contd. on page 12)

Safety Data Sheet (SDS)

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

Issue date 07/03/2020

Reviewed on 07/03/2020

Trade Name: Precision Calibration Gas Mixture

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

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

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

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