

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

Issue date 09/24/2015

Reviewed on 09/24/2015

Product identifier Clemco Part #11132

- · Trade name: Precision Calibration Gas Mixture
- · Product number: G-5215A
- 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 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: 1-800-424-9300 (CHEMTREC, 24 hours)
Outside the US: 1-703-527-3887 (CHEMTREC, 24 hours)

· Classification of the substance or mixture



GHS04 Gas cylinder

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

- · Label elements
- GHS label elements

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

· Hazard pictograms



GHS04

- · Signal word Warning
- · Hazard statements

Contains gas under pressure; may explode if heated.

· Precautionary statements

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

Unknown acute toxicity:

100 percent of the mixture consists of ingredient(s) of unknown toxicity.

- Classification system:
- NFPA ratings (scale 0 4)



Health = 0 Fire = 0 Reactivity = 0

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· HMIS-ratings (scale 0 - 4)



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

- · Chemical characterization: Mixtures
- · Description: Mixture of substances listed below with nonhazardous additions.
- Dangerous Components:

CAS: 7727-37-9 Nitrogen

Press. Gas, H280; Simple Asphyxiant

79.1%

RTECS: QW 9700000

CAS: 7782-44-7

Oxygen

Oxid. Gas 1, H270; Press. Gas, H280

20.9%

Description of first aid measures

• After inhalation: Generally the product does not irritate with inhalation.

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 eve contact:

Not anticipated under normal use.

Rinse opened eye for serveral minutes under running water. Then consult a physician.

After swallowing:

Not a normal route of entry.

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.

Extinguishing media

Suitable extinguishing agents:

Use fire fighting measures that suit the environment.

Use water spray to cool fire-exposed containers.

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 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.

· Protective equipment:

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.

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- Personal precautions, protective equipment and emergency procedures Not required.
- · Environmental precautions: No special measures required.
- · Methods and material for containment and cleaning up:

Dispose 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.

- · Handling:
- · Precautions for safe handling No special precautions are necessary if used correctly.
- 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, 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-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.

- · 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

- · Additional information: The lists that were valid curing 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.

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Keep away from foodstuffs, beverages and feed.

Avoid contact with the eyes and skin.

Breathing equipment: Not required.

Protection of hands: Not required.

- · Eye protection: Not necessary under normal conditions.
- Body protection: Not required.

· 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:
Boiling point/Boiling range:
Not determined.
Not applicable.
Flammability (solid, gaseous):
Not determined.

· Ignition temperature:

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
Vapor density
Not determined.
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.

- · Reactivity No further relevant information available.
- · Chemical stability Stable under normal conditions.

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- · 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, phosphorous, organic materials and powdered metals.
- Hazardous decomposition products: Nitrogen Oxides (NOx).
- · Information on toxicological effects The toxicity of this product is unknown.
- · Acute toxicity:
- 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

None of the ingredients are listed.

· NTP (National Toxicology Program)

None of the ingredients are listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients are listed.

- · Toxicity The hazards for the aquatic environment are unknown.
- 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.
- · 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 easte authority before placing any gas cylinder into waste container for pickup. GASCO encourages the consumer to return all cylinders.

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- Waste disposal key:
- The U.S. EPA has not published waste disposal numbers for this product's components.
- Uncleaned packagings:
- · Recommendation: Return cylinder and unused product to supplier.
- · UN-Number
- DOT, ADR, IMDG, IATA

UN1002

UN proper shipping name

Air, Compressed

· DOT · ADR

UN1002 Air, Compressed AIR, COMPRESSED.

· IMDG, IATA

Transport hazard class(es)

· DOT

· Class

2.2

Label

2.2

· ADR



Class

2.2 1A

Label

2.2

IMDG, IATA



· Class

2.2

·Label

2.2

· Packing group

DOT, ADR, IMDG, IATA

Non-Regulated Material

Environmental hazards: Special precautions for user Not applicable. Not applicable.

Danger code (Kemler): EMS Number:

20 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

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· ADR

· 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)
 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 1002 AIR COMPRESSED, 2.2

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara
- · Section 355 (extremely hazardous substances):

None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

- · 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:

None of the ingredients are listed.

- · Carcinogenic categories
- · EPA (Environmental Protection Agency)

None of the ingredients are listed.

TLV (Threshold Limit Value established by ACGIH)

None of the ingredients are listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients are listed.

GHS label elements

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

Hazard pictograms



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- · Signal word Warning
- · Hazard statements

Contains gas under pressure; may explode if heated.

Precautionary statements

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

National regulations:

The product is subject to be classified according with the latest version of the regulations on hazardous substances.

State Right to Know

CAS: 7727-37-9

Nitrogen

Press. Gas, H280; Simple Asphyxiant

79.1%

RTECS: QW 9700000

CAS: 7782-44-7

Oxygen

Oxid. Gas 1, H270; Press. Gas. H280

20.9%

All ingredients are listed.

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

· Relevant phrases

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- Date of preparation / last revision 07/21/2015 / -
- 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)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Oxid. Gas 1: Oxidising Gases, Hazard Category 1

Press. Gas: Gases under pressure: Compressed gas

* Data compared to the previous version altered.

SDS created by Gasco Affiliates, LLC.

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